



Erin K. Fure
Director, Corporate Counsel
852 Wesley Drive | Mechanicsburg, PA 17055
Phone: 717-550-1556 | Fax: 717-550-1255
erin.fure@amwater.com

May 3, 2023

VIA ELECTRONIC FILING

Ms. Rosemary Chiavetta, Secretary
Commonwealth of Pennsylvania
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
400 North Street
Harrisburg, PA 17120

**In re: Application of Pennsylvania-American Water Company for
Approval of the Right to Offer, Render, Furnish or Supply
Wastewater Service to the Public in an Additional Portion of
Sadsbury Township, Chester County, Pennsylvania**

Docket No. A-2023-3039812

Dear Secretary Chiavetta:

In response to your letter dated April 21, 2023 attached for filing is Pennsylvania-American Water Company's responses to Data Request Set I, regarding the above referenced docket number.

Sincerely,

A handwritten signature in blue ink that reads "EK Fure".

Erin K. Fure

Enclosures

cc: All Parties on the attached Certificate of Service (*via electronic mail*)
Clinton McKinley (*via electronic mail*)
James P. Kelly (*via electronic mail*)

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

In re: Application of Pennsylvania-American Water Company for Approval of the Right to Offer, Render, Furnish or Supply Wastewater Service to the Public in an Additional Portion of Sadsbury Township, Chester County, Pennsylvania	: : : : : : :	Docket No. A-2023-3039812
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CERTIFICATE OF SERVICE

I hereby certify that I am this day serving the above-referenced Responses upon the persons and in the manner indicated below, which service satisfies the requirements of 52 Pa. Code §1.54 (relating to service by a party).

SEND VIA ELECTRONIC MAIL ON MAY 3, 2023

Patrick Cicero, Consumer Advocate
Office of Consumer Advocate
555 Walnut Street
5th Floor, Forum Place
Harrisburg, PA 17101-1923
(via electronic mail)

NazAarah Sabree, Small Business Advocate
Office of Small Business Advocate
555 Walnut Street
1st Floor, Forum Place
Harrisburg, PA 17101
(via electronic mail)

Richard Kanaskie, Director
Pennsylvania Public Utility Commission
Bureau of Investigation and Enforcement
400 North Street
PO Box 3265
Harrisburg, PA 17105
(via electronic mail)

Respectfully Submitted,



Erin K. Fure, Esquire (PA ID #312245)
Pennsylvania-American Water Company
852 Wesley Drive
Mechanicsburg, PA 17055
Phone: (717) 550-1556
Email: erin.fure@amwater.com

Attorney for Pennsylvania-American Water Company

Application of Pennsylvania-American Water Company – Wastewater Division for approval to begin to offer, render, furnish or supply wastewater service to the public in an additional portion of Sadsbury Township, Chester County, Pennsylvania

Docket No. A-2023-30398123

PAWC’s Responses to TUS Data Request Set I

A-1 The Application’s Section 13 indicated that PAWC-WD will be responsible for the costs to install the lateral from the force main to the property line. The Application’s Exhibit B-1, Map of Proposed Service Territory Expansion, depicted a force main (Octorara Force Main) partially aligned with Octorara Trail (State Route 10) and the parcel boundaries of several properties in Sadsbury Township, that appears to terminate at a point of connection with PAWC-WD’s wastewater collection system in Parkesburg. Regarding the referenced Octorara Force Main, please provide responses to following:

- a. Identify the owner of the Octorara Force Main;
- b. If PAWC-WD does not own the Octorara Force Main, provide evidence of PAWC-WD’s right to connect customers and use the force main for wastewater collection and conveyance (i.e., Asset Purchase or Lease Agreement);
- c. Quantify the diameter, material type, and installed length of the Octorara Force Main;
- d. Identify the date the Octorara Force Main was constructed and placed into service, and the original construction cost;
- e. Revise the Application’s Exhibit B-1 to depict all location(s) the Octorara Force Main connections to PAWC-WD’s existing facilities; and
- f. Quantify the number of PAWC-WD customers, by customer class, whose wastewater flows are conveyed through the Octorara Force Main.

Response:

- a. PAWC
- b. N/A
- c. 6’ / DR-18 HDPE / 4,450’
- d. 2019 – 22 / 4-1-23 / \$403,236.20
- e. See answer A-4
- f. There are no connections at this point in time. The pump station and force main were installed for a shopping center that is in the process of being built.

Responsible Witness: **James P. Kelly, Senior Supervisor – Coatesville
Pennsylvania-American Water Company**

Dated: **May 3, 2023**

Application of Pennsylvania-American Water Company – Wastewater Division for approval to begin to offer, render, furnish or supply wastewater service to the public in an additional portion of Sadsbury Township, Chester County, Pennsylvania

Docket No. A-2023-30398123

PAWC’s Responses to TUS Data Request Set I

A-2 The Application’s Section 14 indicated that PAWC-WD will not be required to obtain any easements to provide wastewater service in the requested service territory as it already has an easement in place that abuts the property. However, the Application’s Exhibit E included a copy of a Utility Easement Agreement between Donald W. Cairns & Kelly M. Cairns and Sadsbury Commons, L.P. (Cairns UEA) and a Utility Easement Agreement between Upper Octorara Presbyterian Church and Sadsbury Commons, L.P. (UOPEA). However, neither of these easement agreements appear to have been conveyed to PAWC-WD. Please provide evidence that the Cairns UEA and UOPEA agreements have been transferred to PAWC-WD or that Sadsbury Commons, L.P., or its successors-in-interest, have granted the necessary easements to PAWC-WD.

Response: PAWC is in the process of transferring the easement for the developer Sadsbury Commons LP to PAWC. PAWC will supplement its response to A-2 in order to provide the easement to TUS, once conveyed.

Responsible Witness: James P. Kelly, Senior Supervisor – Coatesville
Pennsylvania-American Water Company

Dated: May 3, 2023

Application of Pennsylvania-American Water Company – Wastewater Division for approval to begin to offer, render, furnish or supply wastewater service to the public in an additional portion of Sadsbury Township, Chester County, Pennsylvania

Docket No. A-2023-30398123

PAWC's Responses to TUS Data Request Set I

A-3 The Application's Exhibit E included a copy of only the first page of the UOPEA. Please provide a complete copy of the executed UOPEA.

Response: See **Attachment A-3** for the complete copy of the executed UOPEA.

Responsible Witness: **James P. Kelly, Senior Supervisor – Coatesville
Pennsylvania-American Water Company**

Dated: **May 3, 2023**

RETURN TO

Prepared by, and after recording please return to:
Buckley, Brion, McGuire, Morris & Sommer LLP
118 West Market Street, Suite 300
West Chester, Pennsylvania 19382
Attn: Michael S. Gill, Esquire

RECORDER OF DEEDS
CHESTER COUNTY, PA.

2012 NOV -1 PM 2:15

U.P.I. Nos. 37-3-17:E, 37-3-18:E, 37-3-19 & 37-3-19:E

UTILITY EASEMENT AGREEMENT

This **UTILITY EASEMENT AGREEMENT** (this "Agreement") is made and entered into this 25th day of October, 2012, by and between **UPPER OCTORARA PRESBYTERIAN CHURCH**, a Pennsylvania non-stock, non-profit corporation (the "Church") and **SADSBURY COMMONS, L.P.**, a Pennsylvania limited partnership ("Sadsbury Commons").

BACKGROUND

WHEREAS, the Church owns those certain parcels of real property located within the jurisdictional limits of the Township of Sadsbury (the "Township"), Chester County, Pennsylvania, known to the Board of Assessment of said County (the "Board of Assessment") as Tax Map Parcels Nos. 37-3-17.E, 37-3-18.E, 37-3-19 & 37-3-19.E, respectively, and as more fully described by metes and bounds on Exhibit A attached hereto (collectively, the "Church Property"); and

WHEREAS, Sadsbury Commons owns that certain parcel of real property and improvements located within the jurisdictional limits of the Township and in the vicinity of the the Church Property, known to the Board of Assessment as Tax Map Parcel No. 37-3-1 and as more fully described by metes and bounds on Exhibit B attached hereto (the "Sadsbury Commons Property"); and

WHEREAS, Sadsbury Commons intends to develop the Sadsbury Commons Property and, in conjunction with such development, intends to cause sanitary sewage collection and conveyance infrastructure (collectively, the "Sanitary Sewage Infrastructure") to be installed between the Sadsbury Commons Property and other sanitary sewage infrastructure located in the Township; and

WHEREAS, a portion of the Sanitary Sewage Infrastructure will traverse in, on, under and through the Church Property; and

WHEREAS, on and subject to the terms and conditions set forth in this Agreement, the Church and Sadsbury Commons reached agreement on the terms, conditions and provisions under which the Church will permit the Sanitary Sewage Infrastructure to traverse in, on, under and through the Church Property, as aforesaid.

NOW, THEREFORE, for and in consideration of the mutual promises set forth herein as well as other good and valuable consideration, the receipt and lawful sufficiency of which are

hereby acknowledged, and intending to be legally bound, the Church and Sadsbury Commons agree as follows:

1. **Incorporation of Recitals.** The Recitals set forth in the Background Section of this Agreement are incorporated herein as if here set forth in their entirety.

2. **Incorporation of Exhibits.** All Exhibits attached to this Agreement are incorporated herein by reference.

3. **Right to Connect and Utilize.** At any time during the term of the Sewer Utility Easement (as hereinafter defined), the Church or, as applicable, its successors and/or assigns (including, without limitation, any and all tenants and subtenants at the Church Property) (and, in any and all instances whatsoever, in accordance with any applicable governmental, quasi-governmental and/or Public Utility (as hereinafter defined) laws, rules, regulations, ordinances and policies) shall have the right to connect to the Sanitary Sewage Infrastructure at a location of its or their choosing and to utilize the Sanitary Sewage Infrastructure to serve the sewage disposal needs of the Church Property. Notwithstanding anything to the contrary set forth in this Agreement or elsewhere, as and between the Church and Sadsbury Commons, the Church (or, as applicable, its successors and/or assigns (including, without limitation, any and all tenants and subtenants at the Church Property)) is (or, as applicable, are) and shall be solely responsible for any and all amounts, charges, costs, expenses, fees and sums (including, without limitation, tapping fees for EDUs) associated with or in any manner or form related to connection to the Sanitary Sewage Infrastructure.

4. **Payment of Easement Fee.** Upon full execution of this Agreement by the Church and Sadsbury Commons, Sadsbury Commons paid to the Church the sum of One Thousand and 00/100 Dollars (the "Easement Fee"). The Church, for itself and, as applicable, its successors and/or assigns (including, without limitation, any and all tenants and subtenants at the Church Property) acknowledges (A) receipt and the lawful sufficiency of the Easement Fee and, (B) in furtherance (and not in limitation) of the rest and remainder of the terms, conditions and provisions of this Agreement, that Sadsbury Commons does not and shall not have any obligation or responsibility whatsoever to pay to the Church, the Township or any individual or entity whatsoever (including, without limitation, any Public Utility (as that term is defined in the Pennsylvania Public Utility Code, 66 Pa.C.S.A. § 101, *et seq.*)) any additional consideration on account of the Sewer Utility Easement and/or connection of the Church Property to the Sanitary Sewage Infrastructure or any tapping or other sewer connection fees whatsoever.

5. **Grant of Sewer Utility Easement.** The Church, for itself and its successors and assigns, including, without limitation, any and all tenants and subtenants, hereby grants and conveys unto Sadsbury Commons, and Sadsbury Commons hereby accepts from the Church, a perpetual and exclusive easement (the "Sewer Utility Easement") in, on, under and through that portion of the Church Property more fully depicted in hashmarks on Exhibit C and more fully described by metes and bounds on Exhibit D (each attached hereto) (the "Sewer Utility Line Easement Area") for the purposes of designing, digging, installing, constructing and/or otherwise

facilitating any and all sewer utility lines or methods of conveyance of sanitary sewage effluent and manhole apparatuses, cleanouts and related appurtenances as Sadsbury Commons may, in its sole and absolute discretion, determine to be necessary or desirable in conjunction with the Sanitary Sewage Infrastructure (collectively, the "Sewer Utility Line").

6. **Grant of Construction Easement.** The Church, for itself and its successors and assigns, including, without limitation, any and all tenants and subtenants, hereby grants and conveys unto Sadsbury Commons, and Sadsbury Commons hereby accepts from the Church, a temporary (as to initial construction and installation) and permanent, otherwise, and non-exclusive easement (the "Sewer Utility Line Construction Easement") in, on, under and through that portion of the Church Property more fully depicted in shading on Exhibit C and more fully described by metes and bounds on Exhibit E (each attached hereto) (the "Sewer Utility Line Construction Easement Area") for the purposes of constructing and installing and replacing, accessing, maintaining, repairing, upgrading, expanding and/or reducing the Sewer Utility Line (collectively, the "Sewer Utility Line Installation Work") and, immediately thereafter, filling the Sewer Utility Line Construction Easement Area to substantially the same grade level and restoring the Sewer Utility Line Construction Easement Area to substantially the same condition that shall exist immediately prior to the Sewer Utility Line Installation Work.

7. **Term of Easement.** The temporary component of the Sewer Utility Line Construction Easement shall commence on the date of this Agreement and shall terminate upon the earlier to occur of (A) the date that is eighty-four (84) months from the date of this Agreement or (B) the date on which Sadsbury Commons shall provide notice to the Church (in the manner set forth in this Agreement for the providing of notices) that the Sewer Utility Line Installation Work shall then be completed.

8. **Use of Easement Areas.** Except during temporary times when the Sanitary Sewage Infrastructure (including, without limitation, the Sewer Utility Line) shall be installed, constructed, replaced, maintained, repaired, upgraded or expanded, the Church shall maintain and enjoy full and unrestricted access to, and use of, the Sewer Utility Line Easement Area and the Sewer Utility Line Construction Easement Area, as applicable, including the right to traverse such areas provided, however, that no such access and/or use shall interfere in any manner or form with the functionality of the Sanitary Sewage Infrastructure (including, without limitation, the Sewer Utility Line) and/or the purpose and intent of this Agreement and the easements and rights granted and established pursuant to this Agreement.

9. **Ownership of Sewer Utility Line; Dedication.** Notwithstanding anything to the contrary set forth in this Agreement, the Sewer Utility Line shall be owned by Sadsbury Commons and not the Church provided, however, that Sadsbury Commons may, in its sole and absolute discretion, dedicate, assign, grant, alienate, convey or sell to the Township or any other governmental or quasi-governmental agency, authority, board, commission or entity or any Public Utility all or any portion of the Sewer Utility Line and the Sewer Utility Easement (either together with or separately from any or all of the other easement rights granted and conveyed under and pursuant to this Agreement) and, upon such dedication, assignment, grant, alienation, conveyance or sale, shall be released from any and all duty, responsibility, obligation or liability

with regard to this Agreement and/or any of the easements or rights granted and/or declared under or pursuant to this Agreement other than those set forth at Section 3. of this Agreement and Section 4. of this Agreement, respectively.

10. **Costs.** Except as expressly set forth in this Agreement to the contrary, as between Sadsbury Commons and the Church (and except with regard to costs and expenses arising solely out of or in any manner or form related to the negligence or wrongful acts of the other and/or the other's agents, contractors, subcontractors, tenants, invitees, guests or employees and/or any of his, her, its or their agents, contractors, subcontractors, tenants, invitees, guests or employees) all costs and expenses relating to the exercise of the easements and rights granted and declared hereunder shall be paid by the party incurring such costs. This Section 10. of this Agreement shall survive termination of this Agreement.

11. **Insurance; Indemnity.**

A. **Indemnity.** At all times during the terms of the easements granted and established pursuant to the express terms of this Agreement, Sadsbury Commons shall indemnify, defend and hold harmless the Church from and against all claims, costs, expenses, damages, liabilities, actions, judgments and demands (including, without limitation, reasonable attorneys fees and court costs) directly arising out of the use, enjoyment or exercise by Sadsbury Commons and/or its employees, agents, contractors, directors, licensees, permittees, customers, tenants, representatives, consultants, servants, invitees and/or anyone acting by, through, under or on behalf of it or any of them (collectively, the "Indemnifying Party") of the easements granted and established pursuant to the express terms of this Agreement, on, under or through the Church Property provided, however, that the foregoing obligations shall be limited by, and Sadsbury Commons' liability reduced to, the extent such claims, expenses, damages, liabilities, actions, judgments, claims and demands arise out of, the negligence or willful misconduct of the Church or any of its agents, contractors, subcontractors, tenants, subtenants, invitees, guests or employees and/or any of its or their agents, contractors, subcontractors, tenants, subtenants invitees, guests or employees and/or the access and/or use of the Church Property (or any portion thereof including, without limitation, the Sewer Utility Line Easement Area and the Sewer Utility Line Construction Easement Area) by the Church or any of its agents, contractors, subcontractors, tenants, subtenants, invitees, guests or employees and/or any of its or their agents, contractors, subcontractors, tenants, subtenants invitees, guests or employees.

B. **Insurance.** At all times during the terms of the easements granted and established pursuant to the express terms of this Agreement, Sadsbury Commons shall maintain one or more policy(ies) of general commercial liability insurance to limits of not less than One Million and 00/100 Dollars (\$1,000,000.00) single limit and Two Million and 00/100 Dollars (\$2,000,000.00) in the aggregate insuring against claims on account of loss of life, bodily injury or property damage that directly arise out of the use, enjoyment or exercise by Sadsbury Commons and/or its employees, agents, contractors, directors, licensees, permittees, customers, tenants, representatives, consultants, servants, invitees and/or anyone acting by, through, under or on behalf of it or any of them of the easements granted and established pursuant to the express terms of this Agreement in, on, under or through the Church Property and shall name the Church as an additional insured on such policy(ies).

12. **Prior Notice.** Except in the event of an emergency or other imminent threat or death or injury to persons or property, Sadsbury Commons shall provide at least five (5) Business Days' (as hereinafter defined) prior written notice to the Church before any entry upon the Church Property for the purpose of commencing any portion of the Sewer Utility Line Installation Work.

13. **Notices.** Any and all notices required or desired to be given pursuant to this Agreement shall be sent via hand delivery or via first-class mail or via a nationally recognized courier service guaranteeing next Business Day delivery, in any event to the addresses set forth below or such other address(es) as the recipient(s) may designate from time to time:

if to the Church:

Upper Octorara Presbyterian Church
1121 Octorara Road
Parkesburg, Pennsylvania 19365
Attn: James Hook, President of the Board of Trustees

if to Sadsbury Commons:

Sadsbury Commons, L.P.
Two Villanova Center
795 East Lancaster Avenue, Suite 200
Villanova, Pennsylvania 19085
Attn: Mr. W. Kent Silvers, Jr.

with a required copy in all instances to:

Buckley, Brion, McGuire, Morris & Sommer LLP
118 West Market Street
West Chester, Pennsylvania 19382
Attn: Michael S. Gill, Esquire

All such notices, requests and other communications shall be deemed to have been sufficiently given for all purposes hereof as follows: if made by hand delivery then upon such delivery, if made by overnight delivery then on the next Business Day following deposit thereof properly addressed and delivery fees paid with a nationally recognized courier guaranteeing overnight delivery and providing package tracking capability and, if made by first-class mail then on the fifth (5th) Business Day following deposit thereof with the United States Postal Service properly addressed and postage prepaid. When used in this Agreement, the term "Business Day" does and shall mean any day other than a Saturday, Sunday or legal holiday in the Commonwealth of Pennsylvania. This Section 13. of this Agreement shall survive termination of this Agreement.

14. **Governing Law.** This Agreement shall be interpreted and enforced in accordance with the laws of the Commonwealth of Pennsylvania without regard to conflicts of laws principles.

15. **Covenants Running with Land; Binding Effect.** The easements and rights granted and declared under and pursuant to this Agreement are and shall constitute covenants running with the land. This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, administrators, personal representatives, executors, successors and assigns.

16. **Recording.** This Agreement shall be recorded at Sadsbury Commons' cost and expense in the Office of the Recorder of Deeds in and for Chester County.


17. **Execution in Counterparts.** This Agreement may be executed in one or more counterparts, each of which shall be deemed to constitute an original, but all of which, when taken together, shall constitute one and the same instrument, with the same effect as if all the parties to this Agreement had executed the same counterpart.

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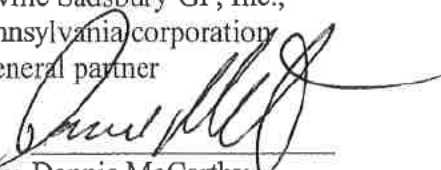
IN WITNESS WHEREOF, the parties hereto executed this Agreement the day and year first above written.

SADSBURY COMMONS, L.P.,
a Pennsylvania limited partnership

By: Provco SC GP, Inc.,
a Pennsylvania corporation
its general partner

By: 
Name: W. Kent Silvers, Jr.
Title: Vice-President

By: Pineville Sadsbury GP, Inc.,
a Pennsylvania corporation
its general partner

By: 
Name: Dennis McCarthy
Title: Vice-President

UPPER OCTORARA PRESBYTERIAN CHURCH,
a Pennsylvania non-stock, non-profit corporation

By: its Board of Trustees

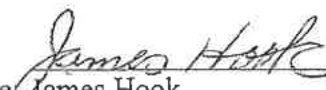
By: 
Name: James Hook
Title: President

EXHIBIT A

[INSERT LEGAL DESCRIPTION OF CHUCH PROPERTY]

EXHIBIT B



CONTROL POINT ASSOCIATES, INC.

traditional methods | modern approaches

New Britain Corporate Center
1600 Manor Drive, Suite 120,
Chalfont, PA 18914
Tel. 215.712.9800
Fax. 215.712.9802
www.cpasurvey.com

March 23, 2012
CP08052

NOTES AND BOUNDS DESCRIPTION
PROPOSED LOT 2
PART OF A.P.N. 37-003-0001.0000
LANDS NOW OR FORMERLY
SADSBURY COMMONS, L.P.
SADSBURY TOWNSHIP, CHESTER COUNTY
COMMONWEALTH OF PENNSYLVANIA

BEGINNING AT AN IRON PIN AT THE INTERSECTION OF THE NORTHEASTERLY LEGAL RIGHT-OF-WAY LINE OF OCTOKARA TRAIL (A.K.A. S.R. 10, A.K.A. L.R. 274, 80 FOOT WIDE LEGAL RIGHT-OF-WAY), AND THE TITLE LINE IN THE BED OF HERSHEY LANE (F.K.A. L.R. 274, ABANDONED AS STATE HIGHWAY, 50 FOOT WIDE RIGHT-OF-WAY), AND FROM SAID POINT OF BEGINNING RUNNING, THENCE;

THE FOLLOWING TWO (2) COURSES AND DISTANCES ALONG THE NORTHEASTERLY LEGAL RIGHT-OF-WAY LINE OF OCTOKARA TRAIL:

1. NORTH 63 DEGREES - 24 MINUTES - 00 SECONDS WEST, A DISTANCE OF 781.26 FEET TO A POINT OF CURVATURE, THENCE;
2. ALONG THE ARC OF A CIRCLE CURVING TO THE RIGHT, HAVING A RADIUS OF 2,398.12 FEET, A CENTRAL ANGLE OF 31 DEGREES - 28 MINUTES - 30 SECONDS, AN ARC LENGTH OF 1,317.39 FEET, A CHORD BEARING NORTH 47 DEGREES - 39 MINUTES - 45 SECONDS WEST AND A CHORD DISTANCE OF 1,300.89 FEET TO A POINT OF CUSP, THENCE;

THE FOLLOWING SIX (6) COURSES AND DISTANCES ALONG THE DIVIDING LINE BETWEEN PROPOSED LOT 2 AND PROPOSED LOT 1:

3. ALONG THE ARC OF A CIRCLE CURVING TO THE LEFT, HAVING A RADIUS OF 65.00 FEET, A CENTRAL ANGLE OF 92 DEGREES - 45 MINUTES - 50 SECONDS, AN ARC LENGTH OF 105.24 FEET, A CHORD BEARING SOUTH 78 DEGREES - 18 MINUTES - 24 SECONDS EAST AND A CHORD DISTANCE OF 94.11 FEET TO A POINT OF TANGENCY, THENCE;
4. NORTH 55 DEGREES - 18 MINUTES - 41 SECONDS EAST, A DISTANCE OF 155.14 FEET TO A POINT OF CURVATURE, THENCE;
5. ALONG THE ARC OF A CIRCLE CURVING TO THE LEFT, HAVING A RADIUS OF 551.00 FEET, A CENTRAL ANGLE OF 46 DEGREES - 30 MINUTES - 45 SECONDS, AN ARC LENGTH OF 447.30 FEET, A CHORD BEARING NORTH 31 DEGREES - 53 MINUTES - 32 SECONDS EAST AND A CHORD DISTANCE OF 435.12 FEET TO A POINT OF NON-TANGENCY, THENCE;
6. NORTH 46 DEGREES - 08 MINUTES - 11 SECONDS WEST, A DISTANCE OF 28.47 FEET TO A POINT, THENCE;
7. NORTH 77 DEGREES - 36 MINUTES - 32 SECONDS WEST, A DISTANCE OF 231.58 FEET TO A POINT, THENCE;

Corporate Office
35 Technology Drive, Warren, NJ 07059
tel: 908.888.0099 fax: 908.888.9595

Branch Office
362 Timplke Road, Suite 201, Southborough, MA 01772
tel: 508.948.3000 fax: 508.948.3008

Professional Land Surveying and Consulting Services



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Page 2

8. NORTH 07 DEGREES - 52 MINUTES - 19 SECONDS WEST, A DISTANCE OF 35.69 FEET TO A POINT, THENCE;

THE FOLLOWING THREE (3) COURSES AND DISTANCES ALONG THE DIVIDING LINE BETWEEN APN #37-003-0001.0000, LANDS NOW OR FORMERLY SADSBUY COMMONS, L.P., AND APN #37-01-0047.000, LANDS NOW OR FORMERLY HERSHEY;

9. NORTH 82 DEGREES - 07 MINUTES - 41 SECONDS EAST, A DISTANCE OF 128.42 FEET TO A CONCRETE MONUMENT, THENCE;
10. NORTH 22 DEGREES - 55 MINUTES - 08 SECONDS EAST, A DISTANCE OF 285.89 FEET TO A CONCRETE MONUMENT, THENCE;
11. NORTH 07 DEGREES - 30 MINUTES - 06 SECONDS WEST, A DISTANCE OF 490.83 FEET TO A POINT ON THE SOUTHWESTERLY LEGAL RIGHT-OF-WAY LINE OF PENNSYLVANIA STATE HIGHWAY U.S. ROUTE 30 (A.K.A. LINCOLN HIGHWAY, A.K.A. L.R. 142, VARIABLE WIDTH LEGAL RIGHT-OF-WAY), THENCE;

THE FOLLOWING FIVE (5) COURSES AND DISTANCES ALONG THE SOUTHWESTERLY LEGAL RIGHT-OF-WAY LINE OF PENNSYLVANIA STATE HIGHWAY U.S. ROUTE 30:

12. SOUTH 83 DEGREES - 45 MINUTES - 53 SECONDS EAST, A DISTANCE OF 317.93 FEET TO A POINT, THENCE;
13. SOUTH 83 DEGREES - 39 MINUTES - 29 SECONDS EAST, A DISTANCE OF 319.22 FEET TO A POINT, THENCE;
14. SOUTH 06 DEGREES - 20 MINUTES - 31 SECONDS WEST, A DISTANCE OF 13.00 FEET TO A POINT, THENCE;
15. SOUTH 83 DEGREES - 39 MINUTES - 29 SECONDS EAST, A DISTANCE OF 99.99 FEET TO A POINT OF CURVATURE, THENCE;
16. ALONG THE ARC OF A CIRCLE CURVING TO THE RIGHT, HAVING A RADIUS OF 1,861.80 FEET, A CENTRAL ANGLE OF 09 DEGREES - 19 MINUTES - 04 SECONDS, AN ARC LENGTH OF 302.78 FEET, A CHORD BEARING SOUTH 78 DEGREES - 59 MINUTES - 57 SECONDS EAST AND A CHORD DISTANCE OF 302.44 FEET TO AN IRON PIN ON THE TITLE LINE IN THE BED OF HERSHEY LANE, THENCE;
17. ALONG THE TITLE LINE IN THE BED OF HERSHEY LANE, SOUTH 06 DEGREES - 12 MINUTES - 35 SECONDS EAST, A DISTANCE OF 2,399.54 FEET TO THE POINT AND PLACE OF BEGINNING.

CONTAINING 2,511,327 SQUARE FEET OR 57.652 ACRES

THIS PROPERTY SUBJECT TO RESTRICTIONS, COVENANTS AND/OR EASEMENTS EITHER WRITTEN OR IMPLIED.



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CP08052
Sadsbury Twp., Chester Co., PA
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THIS DESCRIPTION WAS WRITTEN BASED UPON A MAP ENTITLED "FINAL SUBDIVISION/LAND DEVELOPMENT PLANS FOR SADBURY COMMONS, L.P., PROPOSED MEDICAL OFFICE DEVELOPMENT, ROUTE 10 & 20, SADBURY TOWNSHIP, CHESTER COUNTY, COMMONWEALTH OF PENNSYLVANIA, SUBDIVISION PLAN", PREPARED BY BOHLER ENGINEERING, INC., PROJECT NO. P07-0560, DATED 3/17/2010, LAST REVISED 2/17/2012.



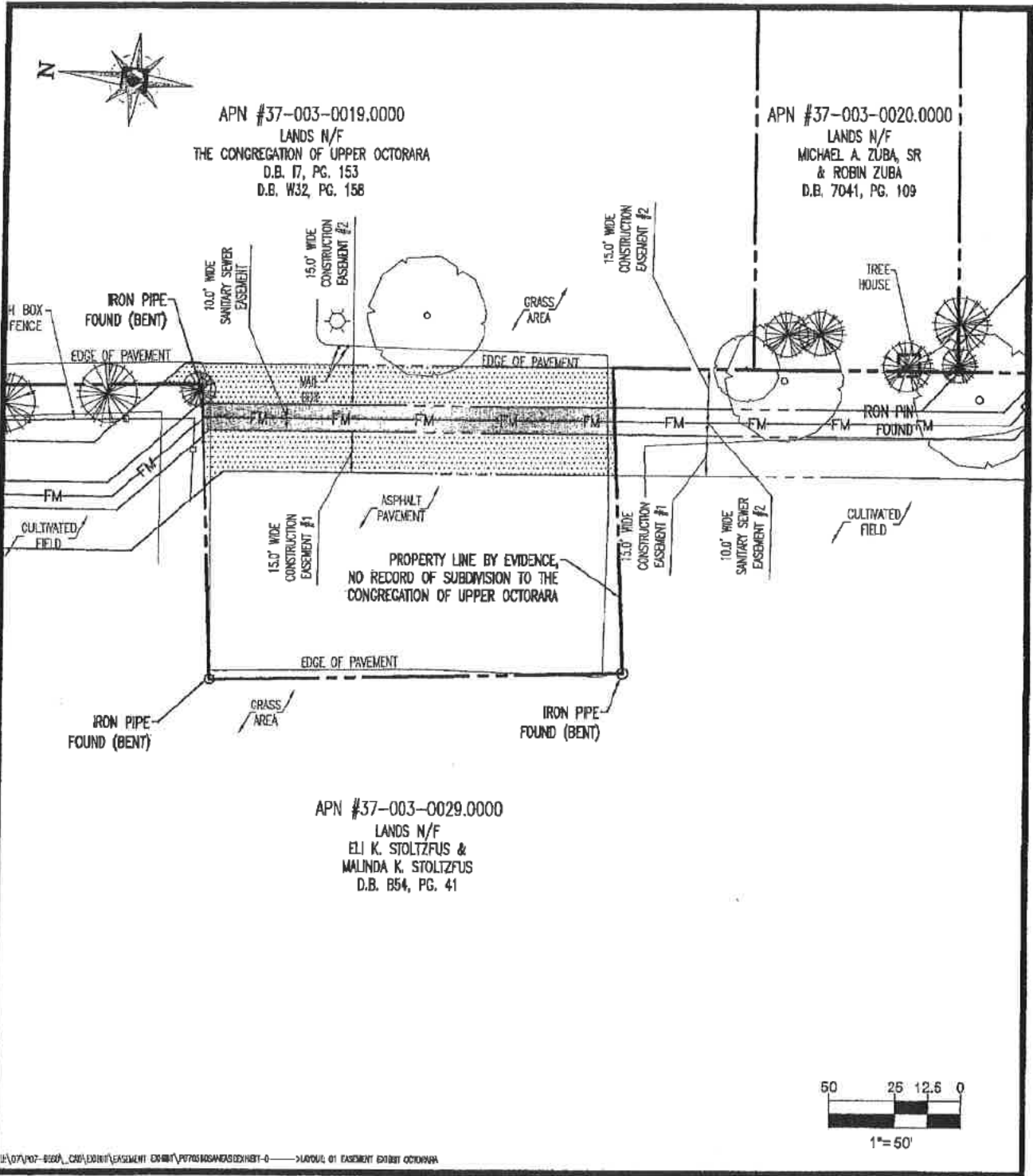
CONTROL POINT ASSOCIATES, INC.

[Handwritten Signature]
3/23/12
JAMES F. HENRY, P.L.S. DATE
COMMONWEALTH OF PENNSYLVANIA
PROFESSIONAL LAND SURVEYOR # SU066807

JAR/SMF 8:\DRAC\0808\DESCRIPTIONS\NTS & BOUND DESCRIPTIONS\PROPOSED LOT 2 (part of A.F.N. 37-003-0001.000).doc
Prepared by: SMF
Reviewed by: SH

EXHIBIT C

***[INSERT EASEMENT PLAN WITH SEWER UTILITY LINE EASEMENT AREA SHOWN
IN HASHMARKS AND SEWER UTILITY LINE TEMPORARY CONSTRUCTION
EASEMENT AREA SHOWN IN SHADING]***



PROJECT NAME: **SADSBURY COMMONS, L.P.**
SADSBURY COMMONS
 ROUTES 10 & 30 SADSBURY TOWNSHIP, CHESTER COUNTY, COMMONWEALTH OF PENNSYLVANIA

SHEET TITLE:
SANITARY SEWER UTILITY EASEMENT EXHIBIT
CONGREGATION OF UPPER OCTORARA
 SHEET 1 OF 1

SCALE: 1"=50'	DATE: 9/24/2012	CHECKED BY: REK	PROJECT NUMBER: P07-0580
---------------	-----------------	-----------------	--------------------------



BOHLER
ENGINEERING

1600 MANOR DRIVE, SUITE 200 CHALFONT, PA 18814
 PHONE: (215) 996-9100 FAX: (215) 996-9102

EXHIBIT D

[INSERT LEGAL DESCRIPTION OF SEWER UTILITY LINE EASEMENT AREA]



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1800 Manor Drive, Suite 210,
Chalfont, PA 18914
Tel. 215.712.9800
Fax. 215.712.9802
www.cpasurvey.com

OCTOBER 3, 2012
CP08052

METES AND BOUNDS DESCRIPTION
10' WIDE SANITARY SEWER EASEMENT #1
PART OF A.P.N. #37-003-0019.0000
LANDS NOW OR FORMERLY
THE CONGREGATION OF UPPER OCTORARA
SADSBURY TOWNSHIP, CHESTER COUNTY
COMMONWEALTH OF PENNSYLVANIA

BEGINNING AT A POINT ON THE DIVIDING LINE BETWEEN A.P.N. #37-003-0019.0000, LANDS NOW OR FORMERLY THE CONGREGATION OF UPPER OCTORARA AND A.P.N. #37-003-0029.0000, LANDS NOW OR FORMERLY STOLTZFUS, SAID POINT BEING DISTANT THE FOLLOWING TWO (2) COURSES AND DISTANCES FROM THE INTERSECTION WITH THE SOUTHERLY APPROXIMATE RIGHT-OF-WAY LINE OF OCTORARA TRAIL (A.K.A. PENNSYLVANIA STATE HIGHWAY ROUTE 10, A.K.A. L.R. 274, VARIABLE WIDTH LEGAL RIGHT-OF-WAY):

THE FOLLOWING TWO (2) COURSES AND DISTANCES ALONG THE DIVIDING LINE BETWEEN A.P.N. #37-003-0019.0000 AND A.P.N. #37-003-0029.0000:

- A. SOUTH 06 DEGREES - 20 MINUTES - 15 SECONDS EAST, A DISTANCE OF 430.53 FEET TO A POINT, THENCE;
- B. SOUTH 81 DEGREES - 40 MINUTES - 27 SECONDS WEST, A DISTANCE OF 7.34 FEET TO THE TRUE POINT AND PLACE OF BEGINNING AND FROM SAID POINT OF BEGINNING RUNNING, THENCE;
- 1. ALONG A LINE RUNNING THROUGH A.P.N. #37-003-0019.0000, SOUTH 05 DEGREES - 37 MINUTES - 13 SECONDS EAST, A DISTANCE OF 157.58 FEET TO A POINT, THENCE;
- 2. ALONG THE DIVIDING LINE BETWEEN A.P.N. #37-003-0019.0000 AND A.P.N. #37-003-0029.0000, SOUTH 81 DEGREES - 40 MINUTES - 27 SECONDS WEST, A DISTANCE OF 10.01 FEET TO A POINT, THENCE;

THE FOLLOWING TWO (2) COURSES AND DISTANCES ALONG A LINE RUNNING THROUGH A.P.N. #37-003-0019.0000:

- 3. NORTH 05 DEGREES - 37 MINUTES - 13 SECONDS WEST, A DISTANCE OF 155.31 FEET TO A POINT, THENCE;
- 4. NORTH 46 DEGREES - 59 MINUTES - 03 SECONDS WEST, A DISTANCE OF 2.91 FEET TO A POINT, THENCE;
- 5. ALONG THE DIVIDING LINE BETWEEN A.P.N. #37-003-0019.0000 AND A.P.N. #37-003-0029.0000, NORTH 81 DEGREES - 40 MINUTES - 27 SECONDS EAST, A DISTANCE OF 11.94 FEET TO THE POINT AND PLACE OF BEGINNING.

CONTAINING 1,578 SQUARE FEET OR 0.036 ACRE

Corporate Office
35 Technology Drive, Warren, NJ 07059
tel: 908.668.0099 fax: 908.668.9595

Branch Office
352 Turnpike Road, Suite 201, Southborough, MA 01772
tel: 508.948.3000 fax: 508.948.3003

Professional Land Surveying and Consulting Services



October 3, 2012
CP00052
Sadsbury Township, Chester Co., PA
Page 2

THIS PROPERTY SUBJECT TO RESTRICTIONS, COVENANTS AND/OR EASEMENTS EITHER WRITTEN OR IMPLIED.

THIS DESCRIPTION WAS WRITTEN BASED UPON AN EXHIBIT ENTITLED "SANITARY SEWER UTILITY EASEMENT EXHIBIT, DONALD W. AND KELLY M. CAIRNS, SADBURY COMMONS, L.P., ROUTES 10 & 30, SADBURY TOWNSHIP, CHESTER COUNTY, COMMONWEALTH OF PENNSYLVANIA", PREPARED BY BOHLER ENGINEERING, INC., DATED 9/24/2012, PROJECT #P07-0560, SHEET 1 OF 1.

CONTROL POINT ASSOCIATES, INC.



10/3/12
DATE

JAMES E. HENRY, L.P.
COMMONWEALTH OF PENNSYLVANIA
PROFESSIONAL SURVEYOR # SU05680

SH/BMF: S:\06\CP00052\DESCRIPTIONS\METES & BOUNDS DESCRIPTIONS\10' WIDE Sanitary Sewer Easement (L.P. #37-003-0019.0000).doc
Prepared by _____
Reviewed by: _____

EXHIBIT E

***[INSERT LEGAL DESCRIPTION OF
SEWER UTILITY LINE TEMPORARY CONSTRUCTION EASEMENT AREA]***



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METES AND BOUNDS DESCRIPTION
15' WIDE CONSTRUCTION EASEMENT #1
PART OF A.P.N. #37-003-0019.0000
LANDS NOW OR FORMERLY
THE CONGREGATION OF UPPER OCTORARA
SADSBURY TOWNSHIP, CHESTER COUNTY
COMMONWEALTH OF PENNSYLVANIA

BEGINNING AT A POINT ON THE DIVIDING LINE BETWEEN A.P.N. #37-003-0019.0000, LANDS NOW OR FORMERLY THE CONGREGATION OF UPPER OCTORARA AND A.P.N. #37-003-0029.0000, LANDS NOW OR FORMERLY STOLTZFUS, SAID POINT BEING DISTANT THE FOLLOWING TWO (2) COURSES AND DISTANCES FROM THE INTERSECTION WITH THE SOUTHERLY APPROXIMATE RIGHT-OF-WAY LINE OF OCTORARA TRAIL (A.K.A. PENNSYLVANIA STATE HIGHWAY ROUTE 10, A.K.A. L.R. 274, VARIABLE WIDTH LEGAL RIGHT OF WAY):

THE FOLLOWING TWO (2) COURSES AND DISTANCES ALONG THE DIVIDING LINE BETWEEN A.P.N. #37-003-0019.0000 AND A.P.N. #37-003-0029.0000:

- A. SOUTH 06 DEGREES - 20 MINUTES - 15 SECONDS EAST, A DISTANCE OF 430.53 FEET TO A POINT, THENCE;
- B. SOUTH 81 DEGREES - 40 MINUTES - 27 SECONDS WEST, A DISTANCE OF 19.28 FEET TO THE TRUE POINT AND PLACE OF BEGINNING AND FROM SAID POINT OF BEGINNING RUNNING, THENCE;

THE FOLLOWING TWO (2) COURSES AND DISTANCES ALONG A LINE RUNNING THROUGH A.P.N. #37-003-0019.0000:

1. SOUTH 46 DEGREES - 59 MINUTES - 03 SECONDS EAST, A DISTANCE OF 2.91 FEET TO A POINT THENCE;
2. SOUTH 05 DEGREES - 37 MINUTES - 13 SECONDS EAST, A DISTANCE OF 155.31 FEET TO A POINT THENCE;
3. ALONG THE DIVIDING LINE BETWEEN A.P.N. #37-003-0019.0000 AND A.P.N. #37-003-0029.0000, SOUTH 81 DEGREES - 40 MINUTES - 27 SECONDS WEST, A DISTANCE OF 15.02 FEET TO A POINT, THENCE;

THE FOLLOWING TWO (2) COURSES AND DISTANCES ALONG A LINE RUNNING THROUGH A.P.N. #37-003-0019.0000:

4. NORTH 05 DEGREES - 37 MINUTES - 13 SECONDS WEST, A DISTANCE OF 150.35 FEET TO A POINT, THENCE;
5. NORTH 46 DEGREES - 59 MINUTES - 03 SECONDS WEST, A DISTANCE OF 9.25 FEET TO A POINT, THENCE;

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35 Technology Drive, Warren, NJ 07059
tel: 908.668.0099 fax: 908.668.9695

Branch Office
362 Tumpke Road, Suite 201, Southborough, MA 01772
tel: 508.948.3000 fax: 508.948.3003

Professional Land Surveying and Consulting Services



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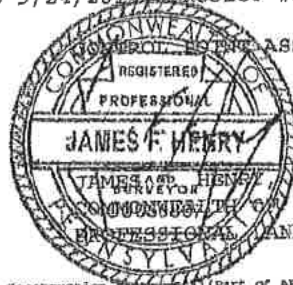
October 3, 2012
CP08052
Sadsbury Township, Chester Co., PA
Page 2

6. ALONG THE DIVIDING LINE BETWEEN A.P.N. #37-003-0019.0000 AND A.P.N. #37-003-0029.0000, NORTH 81 DEGREES - 40 MINUTES - 27 SECONDS EAST, A DISTANCE OF 19.21 FEET TO THE POINT AND PLACE OF BEGINNING.

CONTAINING 2,384 SQUARE FEET OR 0.055 ACRE

THIS PROPERTY IS SUBJECT TO RESTRICTIONS, COVENANTS AND/OR EASEMENTS EITHER WRITTEN OR IMPLIED.

THIS DESCRIPTION IS WRITTEN BASED UPON AN EXHIBIT ENTITLED "SANITARY SEWER UTILITY EASEMENT EXHIBIT, THE CONGREGATION OF UPPER OCTORARA, SADSBUARY COMMONS, L.P., ROUTES 10 & 30, SADSBUARY TOWNSHIP, CHESTER COUNTY, COMMONWEALTH OF PENNSYLVANIA", PREPARED BY BOHLER ENGINEERING, INC., DATED 9/24/2012, PROJECT #P07-0560, SHEET 1 OF 1.



CONTROL POINT ASSOCIATES, INC.

10/3/12

JAMES F. HENRY, P.L.S. DATE
COMMONWEALTH OF PENNSYLVANIA
PROFESSIONAL SURVEYOR # SU05680

BR/BMP: 8:\06\CP08052\DESCRIPTIONS\NETS & BONDS DESCRIPTIONS\15' WIDE Construction Easement (Part of APN #37-003-0019.0000).doc
Prepared by: _____
Reviewed by: _____



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Chalfont, PA 18914
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METES AND BOUNDS DESCRIPTION
15' WIDE CONSTRUCTION EASEMENT #2
PART OF A.P.N. #37-003-0019.0000
LANDS NOW OR FORMERLY
THE CONGREGATION OF UPPER OCTORARA
SADSBURY TOWNSHIP, CHESTER COUNTY
COMMONWEALTH OF PENNSYLVANIA

BEGINNING AT A POINT ON THE DIVIDING LINE BETWEEN A.P.N. #37-003-0019.0000, LANDS NOW OR FORMERLY THE CONGREGATION OF UPPER OCTORARA AND A.P.N. #37-003-0029.0000, LANDS NOW OR FORMERLY STOLTZFUS, SAID POINT BEING DISTANT SOUTH 06 DEGREES - 20 MINUTES - 15 SECONDS EAST, A DISTANCE OF 415.26 FEET FROM THE INTERSECTION WITH THE SOUTHERLY APPROXIMATE RIGHT-OF-WAY LINE OF OCTORARA TRAIL (A.K.A. PENNSYLVANIA STATE HIGHWAY ROUTE 10, A.K.A. L.R. 274, VARIABLE WIDTH LEGAL RIGHT OF WAY), AND FROM SAID POINT OF BEGINNING RUNNING, THENCE;

THE FOLLOWING TWO (2) COURSES AND DISTANCES ALONG A LINE RUNNING THROUGH A.P.N. #37-003-0019.0000:

1. SOUTH 46 DEGREES - 59 MINUTES - 03 SECONDS EAST, A DISTANCE OF 11.89 FEET TO A POINT THENCE;
2. SOUTH 05 DEGREES - 37 MINUTES - 13 SECONDS EAST, A DISTANCE OF 163.56 FEET TO A POINT THENCE;
3. ALONG THE DIVIDING LINE BETWEEN A.P.N. #37-003-0019.0000 AND A.P.N. #37-003-0029.0000, SOUTH 81 DEGREES - 40 MINUTES - 27 SECONDS WEST, A DISTANCE OF 15.02 FEET TO A POINT, THENCE;
4. ALONG A LINE RUNNING THROUGH A.P.N. #37-003-0019.0000, NORTH 05 DEGREES - 37 MINUTES - 13 SECONDS WEST, A DISTANCE OF 157.58 FEET TO A POINT, THENCE;

THE FOLLOWING TWO (2) COURSES AND DISTANCES ALONG THE DIVIDING LINE BETWEEN A.P.N. #37-003-0019.0000 AND A.P.N. #37-003-0029.0000:

5. NORTH 81 DEGREES - 40 MINUTES - 27 SECONDS EAST, A DISTANCE OF 7.34 FEET TO A POINT, THENCE;
6. NORTH 06 DEGREES - 20 MINUTES - 15 SECONDS WEST, A DISTANCE OF 15.27 FEET TO THE POINT AND PLACE OF BEGINNING.

CONTAINING 2,446 SQUARE FEET OR 0.056 ACRE

THIS PROPERTY IS SUBJECT TO RESTRICTIONS, COVENANTS AND/OR EASEMENTS EITHER WRITTEN OR IMPLIED.

Corporate Office
36 Technology Drive, Warren, NJ 07059
tel: 908.668.0099 fax: 908.668.9595

Branch Office
362 Turnpike Road, Suite 201, Southborough, MA 01772
tel: 508.948.3000 fax: 508.948.3003

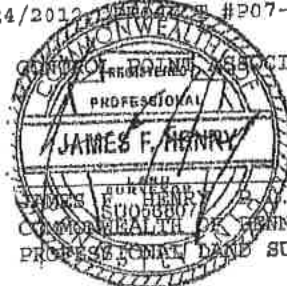
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Sadsbury Township, Chester Co., PA
Page 2

THIS DESCRIPTION IS WRITTEN BASED UPON AN EXHIBIT ENTITLED "SANITARY SEWER UTILITY EASEMENT EXHIBIT, THE CONGREGATION OF UPPER OCTORARA, SADSBUY COMMONS, L.P., ROUTES 10 & 30, SADSBUY TOWNSHIP, CHESTER COUNTY, COMMONWEALTH OF PENNSYLVANIA", PREPARED BY BOHLER ENGINEERING, INC., DATED 9/24/2012, PROJECT #P07-0560, SHEET 1 OF 1.



10/3/12

CONTROL POINT ASSOCIATES, INC.
PROFESSIONAL
JAMES F. HENRY
DATE
COMMONWEALTH OF PENNSYLVANIA
PROFESSIONAL LAND SURVEYOR # SU05680

SH/BMP: 0:\08\CP08052\DESCRIPTIONS\METES & BOUNDS DESCRIPTIONS\15' WIDE Construction Easement #2 (Part of APN #37-003-0019.0000).doc
Prepared by _____
Reviewed by: _____

Application of Pennsylvania-American Water Company – Wastewater Division for approval to begin to offer, render, furnish or supply wastewater service to the public in an additional portion of Sadsbury Township, Chester County, Pennsylvania

Docket No. A-2023-30398123

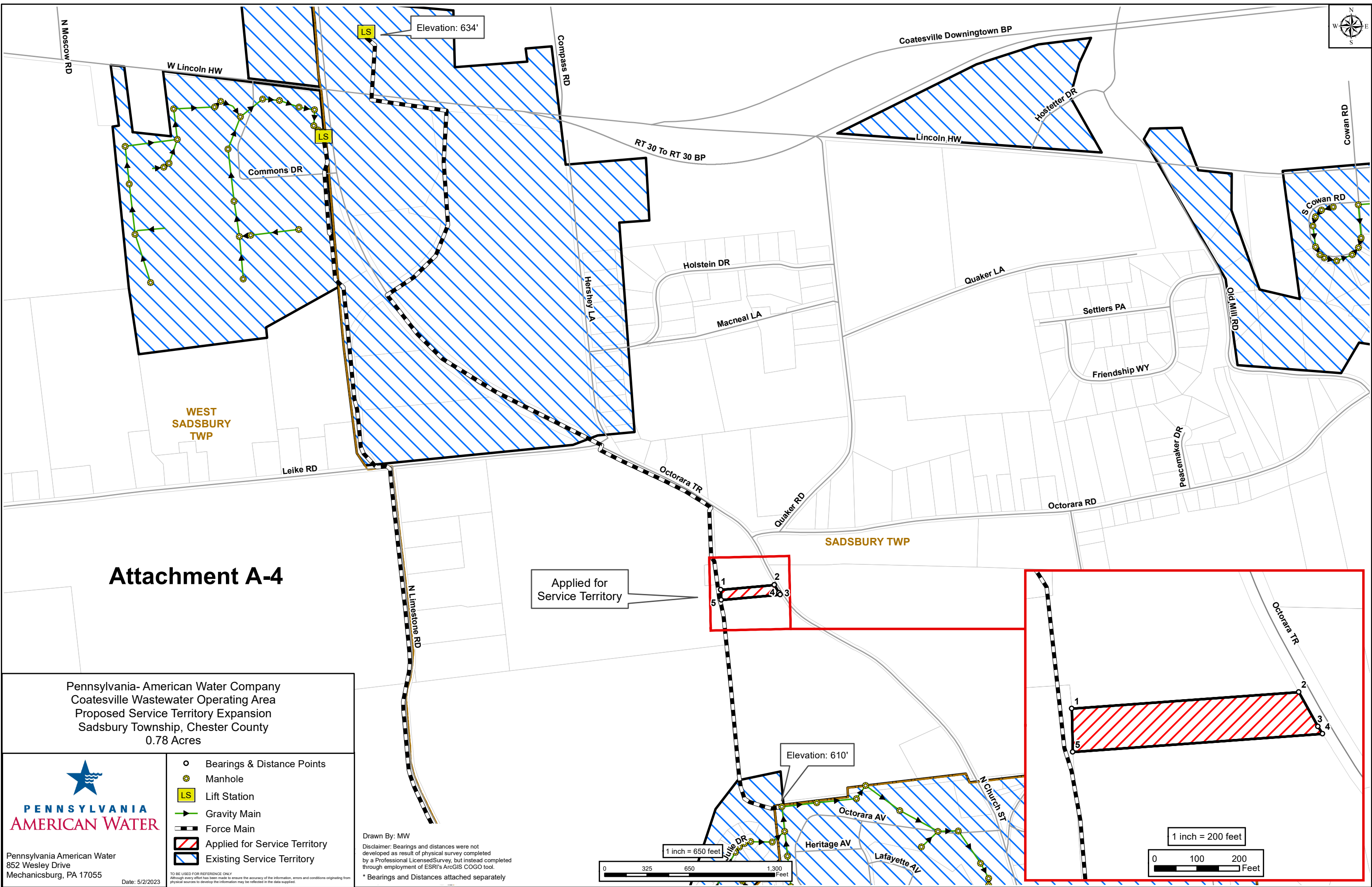
PAWC's Responses to TUS Data Request Set I

A-4 Please provide a map depicting the location of the Octorara Force Main system in relation to the Application's requested territory that includes the location of the force main's pumping station and terminus with topographic elevations identified for both.

Response: Please see **Attachment A-4**.

Responsible Witness: **Mallory M. Weakland, Senior GIS Analyst
Pennsylvania-American Water Company**

Dated: **May 3, 2023**



Attachment A-4

Pennsylvania- American Water Company
Coatesville Wastewater Operating Area
Proposed Service Territory Expansion
Sadsbury Township, Chester County
0.78 Acres

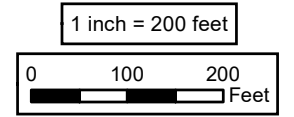
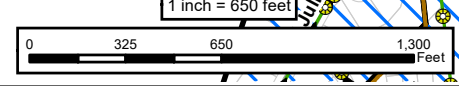
**PENNSYLVANIA
AMERICAN WATER**

Pennsylvania American Water
852 Wesley Drive
Mechanicsburg, PA 17055

Date: 5/2/2023

- Bearings & Distance Points
- Manhole
- Lift Station
- Gravity Main
- Force Main
- Applied for Service Territory
- Existing Service Territory

Drawn By: MW
 Disclaimer: Bearings and distances were not developed as result of physical survey completed by a Professional Licensed Surveyor, but instead completed through employment of ESRI's ArcGIS COGO tool.
 * Bearings and Distances attached separately



Application of Pennsylvania-American Water Company – Wastewater Division for approval to begin to offer, render, furnish or supply wastewater service to the public in an additional portion of Sadsbury Township, Chester County, Pennsylvania

Docket No. A-2023-30398123

PAWC’s Responses to TUS Data Request Set I

A-5 The Application’s Exhibit I included a copy of the estimated annual revenue and expenses for the requested service territory. The estimated revenue appears to have been calculated using PAWC-WD’s metered charges for Rate Zone 1. However, the Application’s Section 15 indicated that water service within the requested service territory is provided by on-site individual wells. Please revise the Application’s Exhibit I to reflect the estimated revenue for providing service in the requested service territory using PAWC-WD’s Rate Zone 1 unmetered charges for residential service or explain how PAWC-WD intends to meter water consumption in the requested service territory for the purpose of wastewater billing.

Response: PAWC-WD intends to meter water consumption at the requested service territory by installing a PAWC-owned meter on the privately-owned well at the Octorara Trail property and issue wastewater bills based on meter reads from such meter.

Responsible Witness: James P. Kelly, Senior Supervisor – Coatesville
Pennsylvania-American Water Company

Dated: May 3, 2023

Application of Pennsylvania-American Water Company – Wastewater Division for approval to begin to offer, render, furnish or supply wastewater service to the public in an additional portion of Sadsbury Township, Chester County, Pennsylvania

Docket No. A-2023-30398123

PAWC’s Responses to TUS Data Request Set I

- A-6** The Application’s Exhibit K included a copy of a Sanitary Sewer Letter from Sadsbury Township to PAWC-WD that indicated the proposed sewer lateral will be required to have a backflow preventer installed. However, the Application’s Section 11 provided a cost estimate (Cost Estimate) of the facilities required to be installed by PAWC-WD to serve the requested territory which did not appear to include the installation of a backflow preventer. Please provide responses to the following:
- a. Indicate whether PAWC-WD or the property owner is responsible for the installation of a backflow preventer;
 - b. If PAWC-WD is responsible for the backflow preventer, confirm the cost is included the Cost Estimate. If not, provide a revised Cost Estimate that includes the cost to install a backflow preventer; and
 - c. The Cost Estimate’s Footnote 2 indicated that paving costs of approximately \$1,000 were included as part of excavation and backfill. However, based upon the Application’s Exhibit B-1 it appears no pavement is located on the easement. Please provide justification for the pavement cost or provide a revised Cost Estimate that removes the pavement restoration related costs.

Response:

- a. Property owner is responsible for the backflow preventer.
- b. N/A
- c. Footnote 2 incorrectly identified this estimated cost as a paving cost; the \$1,000 is an estimated cost for restoration of property and easement. The estimated cost does not change.

Responsible Witness: James P. Kelly, Senior Supervisor – Coatesville
Pennsylvania-American Water Company

Dated: May 3, 2023

Application of Pennsylvania-American Water Company – Wastewater Division for approval to begin to offer, render, furnish or supply wastewater service to the public in an additional portion of Sadsbury Township, Chester County, Pennsylvania

Docket No. A-2023-30398123

PAWC's Responses to TUS Data Request Set I

A-7 Please provide a copy of PAWC-WD's most recent Chapter 94 Municipal Wasteload Management Report for the PAWC-WD Coatesville Wastewater Treatment Plant submitted to the Pennsylvania Department of Environmental Protection.

Response: See Attachment A-7.

Responsible Witness: James P. Kelly, Senior Supervisor – Coatesville
Pennsylvania-American Water Company

Dated: May 3, 2023



CHAPTER 94 MUNICIPAL WASTELOAD MANAGEMENT ANNUAL REPORT

For Calendar Year: **2022**

- Permittee is owner and/or operator of a POTW or other sewage treatment facility
 Permittee is owner and/or operator of a collection system tributary to a POTW not owned/operated by permittee

GENERAL INFORMATION	
Permittee Name: Pennsylvania American Water	Permit No.: PA0026859
Mailing Address: 852 Wesley Drive	Effective Date: May 1, 2019
City, State, Zip: Mechanicsburg, PA 17055	Expiration Date: April 30, 2024
Contact Person: Gerald DeBalko	Renewal Due Date: November 2, 2023
Title: Project Manager	Municipality: Borough of South Coatesville
Phone: 484-855-1006	County: Chester
Email: gerald.debalko@amwater.com	Consultant Name: Pennoni Associates Inc.
CHAPTER 94 REPORT COMPONENTS	
<p>1. Attach to this report a line graph depicting the monthly average flows (expressed in MGD) for each month for the past 5 years and projecting the flows for the next 5 years. The graph must also include a line depicting the hydraulic design capacity per the WQM permit. <u>(25 Pa. Code § 94.12(a)(1))</u></p> <p>Check the appropriate boxes:</p> <p><input checked="" type="checkbox"/> Line graph for flows attached (Attachment A)</p> <p><input checked="" type="checkbox"/> DEP Chapter 94 Spreadsheet used (Attachment A)</p> <p><input type="checkbox"/> Section 1 is not applicable (report is for a collection system).</p>	
<p>2. Attach to this report a line graph depicting the monthly average organic loads (express as lbs BOD5/day) for each month for the past 5 years and projecting the organic loads for the next 5 years. The graph must also include a line depicting the organic design capacity of the treatment plant per the WQM permit. <u>(25 Pa. Code § 94.12(a)(2))</u></p> <p>Check the appropriate boxes:</p> <p><input checked="" type="checkbox"/> Line graph for organic loads attached (Attachment A)</p> <p><input checked="" type="checkbox"/> DEP Chapter 94 Spreadsheet used (Attachment A)</p> <p><input type="checkbox"/> Section 2 is not applicable (report is for a collection system).</p>	
<p>3. If the DEP Chapter 94 Spreadsheet was not used to determine projections, discuss the basis for the hydraulic and organic projections. In all cases, include a description of the time needed to expand the plant to meet the load projections, if necessary, and data used to support the projections should be included in an appendix to this report. <u>(25 Pa. Code § 94.12(a)(3))</u></p> <p>Projections based on the proposed Connection Management Plan (CMP), which is updated March and October of each year and details the demand for new construction based upon input from developers and contributing municipalities.</p>	

4. Attach a map showing all sewer extensions constructed within the past calendar year, sewer extensions approved or exempted in the past year in accordance with Act 537 and Chapter 71, but not yet constructed, and all known proposed projects which require public sewers but are in the preliminary planning stages. The map must be accompanied by a list summarizing each extension or project and the population to be served by the extension or project. If a sewer extension approval or proposed project includes schedules describing how the project will be completed over time, the listing should include that information and the effect this build-out-rate will have on populations served. (25 Pa. Code § 94.12(a)(4))

Check the appropriate boxes:

- Map showing sewer extensions constructed, approved/exempted but not yet constructed, and proposed projects attached (**Attachment**)
- List summarizing each extension or project attached (**Attachment H**)
- Schedules describing how each project will be completed over time and effects attached (**Attachment**)

Comments:

No sewer main extensions were constructed in 2022.

5. Discuss the permittee's program for sewer system monitoring, maintenance, repair and rehabilitation, including routine and special activities, personnel and equipment used, sampling frequency, quality assurance, data analyses, infiltration/inflow monitoring, and, where applicable, maintenance and control of combined sewer regulators during the past year. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(5))

See report narrative.

6. Discuss the condition of the sewer system including portions of the system where conveyance capacity is being exceeded or will be exceeded in the next 5 years and portions where rehabilitation or cleaning is needed or is underway to maintain the integrity of the system and prevent or eliminate bypassing, CSOs, SSOs, excessive infiltration and other system problems. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(6))

Check the appropriate boxes:

- System experienced capacity-related bypassing, SSOs or surcharging during the report year. On a separate sheet, list the date, location, and reason for each bypass, SSO or surcharge event.
- System did not experience capacity-related bypassing, SSOs or surcharging during the report year.

Comments:

See report narrative.

7. Attach a discussion on the condition of sewage pumping (pump) stations. Include a comparison of the maximum pumping rate with present maximum flows and the projected 2-year maximum flows for each station. (25 Pa. Code § 94.12(a)(7))

Check the appropriate boxes:

- The collection system does not contain pump stations
 The collection system does contain pump stations (Number –)
 Discussion of condition of each pump station attached (**Attachment F**)

8. If the sewage collection system receives industrial wastes (i.e., non-sanitary wastes), attach a report with the information listed below. (25 Pa. Code § 94.12(a)(8))

- a. A copy of any ordinance or regulation governing industrial waste discharges to the sewer system or a copy of amendments adopted since the initial submission of the ordinance or regulation under Chapter 94, if it has not previously been submitted.
- b. A discussion of the permittee's or municipality's program for surveillance and monitoring of industrial waste discharges into the sewer system during the past year.
- c. A discussion of specific problems in the sewer system or at the plant, known or suspected to be caused by industrial waste discharges and a summary of the steps being taken to alleviate or eliminate the problems. The discussion shall include a list of industries known to be discharging wastes which create problems in the plant or in the sewer system and action taken to eliminate the problem or prevent its recurrence. The report may describe pollution prevention techniques in the summary of steps taken to alleviate current problems caused by industrial waste dischargers and in actions taken to eliminate or prevent potential or recurring problems caused by industrial waste dischargers.

Check the appropriate boxes:

- Industrial waste report as described in 8 a., b. and c. attached (**Attachment E**)
 Industrial pretreatment report as required in an NPDES permit attached (**Attachment**)

9. Existing or Projected Overload.

Check the appropriate boxes:

- This report demonstrates an existing hydraulic overload condition.
 This report demonstrates a projected hydraulic overload condition.
 This report demonstrates an existing organic overload condition.
 This report demonstrates a projected organic overload condition.

If one or more boxes above have been checked, attach a Corrective Action Plan (CAP) to reduce or eliminate present or projected overloaded conditions under §§ 94.21 and/or 94.22 (relating to existing overload and projected overload). (25 Pa. Code § 94.12(a)(9))

- Corrective Action Plan attached (**Attachment B**)

10. Where required by the NPDES permit, attach a Sewage Sludge Management inventory that demonstrates a mass balance of solids coming in and leaving the facility over the previous calendar year.

- Sewage Sludge Management Inventory attached (**Attachment**)

11. For facilities with CSOs and where required by the NPDES permit, attach an Annual CSO Report (including satellite combined sewer systems).

Annual CSO Report attached (**Attachment**)

12. For POTWs, attach a calibration report documenting that flow measuring, indicating and recording equipment has been calibrated annually. (25 Pa. Code § 94.13(b))

Flow calibration report attached (**Attachment D**)

RESPONSIBLE OFFICIAL CERTIFICATION

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

Gerald A. DeBalko, PE

Gerald De Balko

Name of Responsible Official

Signature

484-855-1006

3/31/2023

Telephone No.

Date

PREPARER CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared by me or otherwise under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Michael J. Ellis, PE

MJ Ellis

Name of Preparer

Signature

302-351-5236

3/31/2023

Telephone No.

Date



CHAPTER 94 MUNICIPAL WASTELOAD MANAGEMENT ANNUAL REPORT INSTRUCTIONS

This form has been developed to promote consistency in the development of annual municipal wasteload management reports ("Chapter 94 reports") required by 25 Pa. Code § 94.12. At least two copies of the complete report must be submitted to the appropriate regional office of the Department of Environmental Protection (DEP) by March 31.

Enter the calendar year that the report covers at the top of the form. Check the appropriate box to indicate whether the permittee is the owner/operator of a publicly owned treatment works (POTW) or other sewage treatment facility, or is the owner/operator of a sewage collection system that is tributary to a POTW owned/operated by a different entity.

General Information

Record the name of the permittee, the permittee's full mailing address, the permittee's contact person and this person's title, phone number and email address. Also record the permit number (NPDES or WQM), the effective date of permit coverage, the expiration date of permit coverage (if applicable), the date by which an application or NOI is due for reissuance (renewal) (if applicable), the municipality and county where the sewage treatment facility or collection system is located, and the name of the consultant (company name), if any, who assisted in the preparation of the form.

Chapter 94 Report Components

This section requests responses to 12 questions that, if applicable, must be addressed for a complete Chapter 94 report. Questions 1 – 9 and 12 come directly from the Chapter 94 regulations, i.e., 25 Pa. Code §§ 94.12(a)(1) – 94.12(a)(9) and 94.13(b). Some questions request that you check an appropriate box, attach the information requested, and specify the attachment number, while responses to other questions may be entered directly on the form.

For Questions 1 and 2, permittees may use DEP's Chapter 94 Spreadsheet to satisfy 25 Pa. Code §§ 94.12(a)(1) and 94.12(a)(2), respectively. DEP encourages use of the Chapter 94 Spreadsheet to provide consistency in the format and calculations associated with hydraulic and organic load evaluations (see www.depweb.state.pa.us/chapter94). If the Chapter 94 Spreadsheet was used, check the appropriate box(es) and attach printouts of the data and graphs to the Chapter 94 report. If this report is being used for a collection system only, these graphs are not needed.

For Question 6, if the permittee checks the box that there were capacity-related bypasses or SSOs during the report year, in general the box for existing hydraulic overload in Question 9 should be checked. If the permittee checks the box in Question 6 because surcharging occurred during the report year, in general the box for projected hydraulic overload in Question 9 should be checked.

For Question 8, if the permittee has an EPA-approved pretreatment program, attachment of an annual pretreatment report as required in an NPDES permit will satisfy the requirement for an industrial waste report.

For Question 10, if a permit requires a "Sewage Sludge Management" inventory, check the appropriate box if the inventory is attached to the Chapter 94 report.

For Question 11, if an NPDES permit (individual permit or, for satellite collection systems, PAG-06 General NPDES permit coverage) requires an Annual CSO (Status) report, attach the CSO report to the Chapter 94 report and check the appropriate box.

Certification

In accordance with 25 Pa. Code § 94.12(a), both the individual who prepared the report and (a responsible official of) the permittee must sign the report. The term "responsible official" for a municipality is a principal executive officer or ranking elected official.

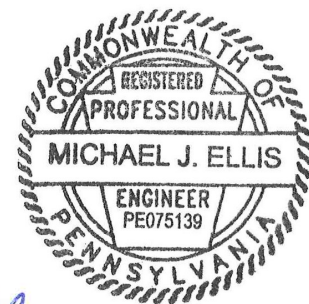
Questions on the completion of Chapter 94 reports may be directed to DEP's Bureau of Point and Non-Point Source Management at (717) 787-8184 or to the appropriate DEP regional office (contact information available by visiting DEP's website, www.depweb.state.pa.us, and selecting Regional Resources).

Pennsylvania American
Water Company
852 Wesley Drive
Mechanicsburg, PA 17055

Coatesville WWTP Annual Wasteload Management Report

Chester County, PA
Permit No. PA0026859

March 2023



Preparer:

Michael J. Ellis, PE
Pennoni Associates Inc.

Issue and revision record

Revision	Date	Originator	Checker	Approver	Description
A	3/31/2023	E. Addison	M. Ellis	G. DeBalko	Issued to PADEP

Information class: Standard

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1 Introduction

This document has been prepared to supplement the Pennsylvania Department of Environmental Protection (PADEP) Chapter 94 Municipal Wasteload Management Annual Report Template.

The 2022 Municipal Waste Load Management Report (Report) has been prepared for the Pennsylvania American Water Company (PAWC) Coatesville Wastewater Treatment Plant (WWTP) and collection system (System) in accordance with Chapter 94, Title 25 of the Rules and Regulations of the Pennsylvania Department of Environmental Protection (PADEP). The WWTP and System serve the following municipalities in Chester County:

- City of Coatesville,
- Borough of Parkesburg,
- Borough of South Coatesville,
- Caln Township,
- East Fallowfield Township,
- Highland Township,
- Sadsbury Township,
- Valley Township,
- West Brandywine Township,
- West Caln Township, and
- West Sadsbury Township.

The WWTP operates under NPDES Permit Number PA0026859, which was renewed by PADEP effective May 1, 2019, and expires on April 30, 2024.

The Coatesville WWTP is owned and operated by PAWC.

1.1 Connection Management Plan (CMP)

In accordance with the August 15, 2012, PADEP review letter of the 2011 Chapter 94 Report, PAWC is required to submit an updated Corrective Action Plan (CAP) and CMP twice per year. In October 2012, PAWC submitted the initial CMP and CAP to PADEP. PAWC has continued to update the CAP and CMP in March and October of each year and submit to PADEP.

The CMP and CAP are required due to projected hydraulic overloads in the collection and conveyance system that were reported in the 2011 Chapter 94 Report. At this time, numerous improvements and replacements have been constructed in the system and the areas that were hydraulically restricted now have capacity. PAWC completed construction for the West End Trunk Line and Parkesburg Pumping Station in 2021.

Included in Appendix B is the Connection Management Plan Revised: March 2023, which contains the status of the CAPs for each area where there was a projected hydraulic overload. The CMP also provides the current projections for growth over the next five years based on the information received from the tributary municipalities and the continuing economic conditions.

1.2 Act 537 Plan Status

The regional Act 537 Plan that PAWC began developing in 2001 on behalf of the tributary municipalities was completed and approved by all the municipalities in 2009. PADEP approval for this Plan was granted by letters dated October 21, 2009, and November 19, 2009.

The final PADEP approval for the regional Act 537 Plan provided for the upgraded 7.0 mgd Coatesville WWTP, collection and conveyance system improvements, and utilization of expanded WWTP flows by those municipalities that had completed associated individual municipality Act 537 planning, namely: the City of Coatesville, the Borough of Parkesburg, and the Townships of Caln, Valley, and West Sadsbury. Additional planning is required for expanded WWTP capacity utilization by the remaining tributary municipalities, which are the Townships of East Fallowfield, Highland, West Brandywine, and West Caln.

PAWC will continue to coordinate with those municipalities that have not yet completed individual municipality Act 537 planning to facilitate consistency with the regional Act 537 Plan.

2 Hydraulic and Organic Loadings

Under PADEP NPDES Permit No. PA0026859, the Coatesville WWTP is permitted to discharge treated effluent to the West Branch of the Brandywine Creek. The permit is based on an annual average flowrate at 7.0 MGD for hydraulic capacity and organic loading.

2.1 Hydraulic Loadings

Table 2.1 summarizes the Coatesville Plant hydraulic loadings from 2018 - 2022 and monthly rainfall for 2022. Figure 2.1 presents a graph of the annual flows at the sewage treatment plant for 2018 - 2022. The annual average daily flow for 2022 was 3.694 mgd. The total annual precipitation in 2022 was 46.4 inches.

The maximum monthly average flow in 2022 was 4.210 mgd, which occurred in April 2022 when there was approximately 5.5 inches of rain. The minimum monthly average flow was 3.370 mgd, occurring in December 2022 when there was 4.7 inches of rain. The maximum 3-month average for 2022 was 4.075 mgd.

In 2022, the number of new connections was approximately 272 EDUs.

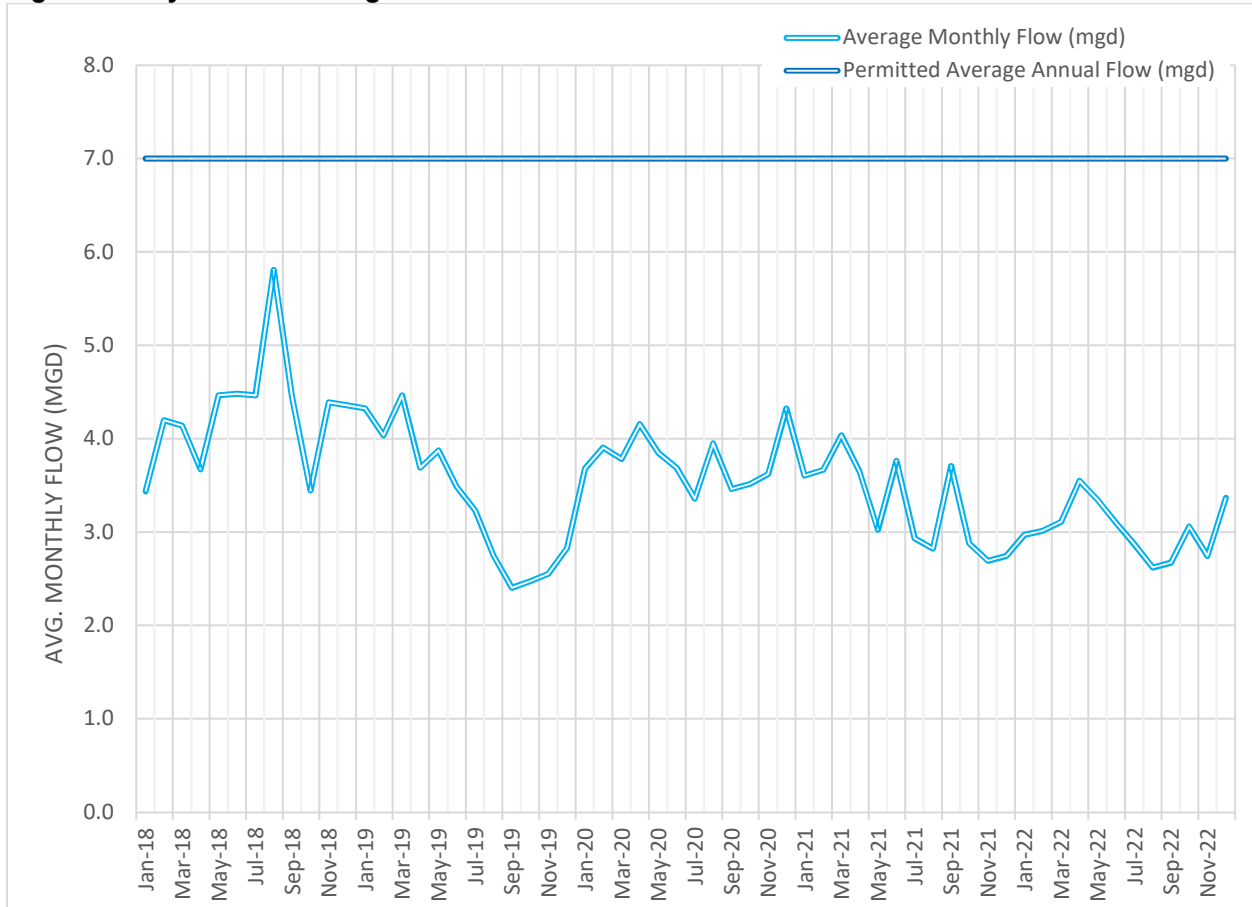
Table 2.1: Hydraulic Loading for 2018 – 2022

Month	Hydraulic Loading (MGD)					Rainfall (inches)
	2018	2019	2020	2021	2022	2022
January	3.436	4.323	3.680	3.605	3.627	3.4
February	4.197	4.037	3.907	3.666	3.779	1.8
March	4.139	4.466	3.783	4.037	3.689	3.4
April	3.672	3.691	4.156	3.646	4.210	5.5
May	4.465	3.875	3.847	3.026	4.171	4.3
June	4.482	3.485	3.690	3.762	3.842	4.6
July	4.727	3.233	3.358	2.932	3.601	4.0
August	5.810	2.749	3.951	2.825	3.394	2.0
September	4.453	2.405	3.462	3.708	3.409	4.2
October	3.446	2.474	3.515	2.878	3.809	5.2
November	4.389	2.553	3.623	2.695	3.425	3.5
December	4.369	2.826	4.325	2.746	3.370	4.7
Annual Avg	4.299	3.343	3.775	3.294	3.694	-
Max 3-mo Avg*	5.006	4.275	3.949	3.783	4.075	-
Max Avg Ratio**	1.16	1.28	1.05	1.15	1.10	-

Notes: * = Average of the three highest consecutive month's flows.

** = Calculated by dividing the maximum 3-month average by the average annual flow.

Figure 2.1: Hydraulic Loading for 2018 – 2022



2.2 Organic Loadings

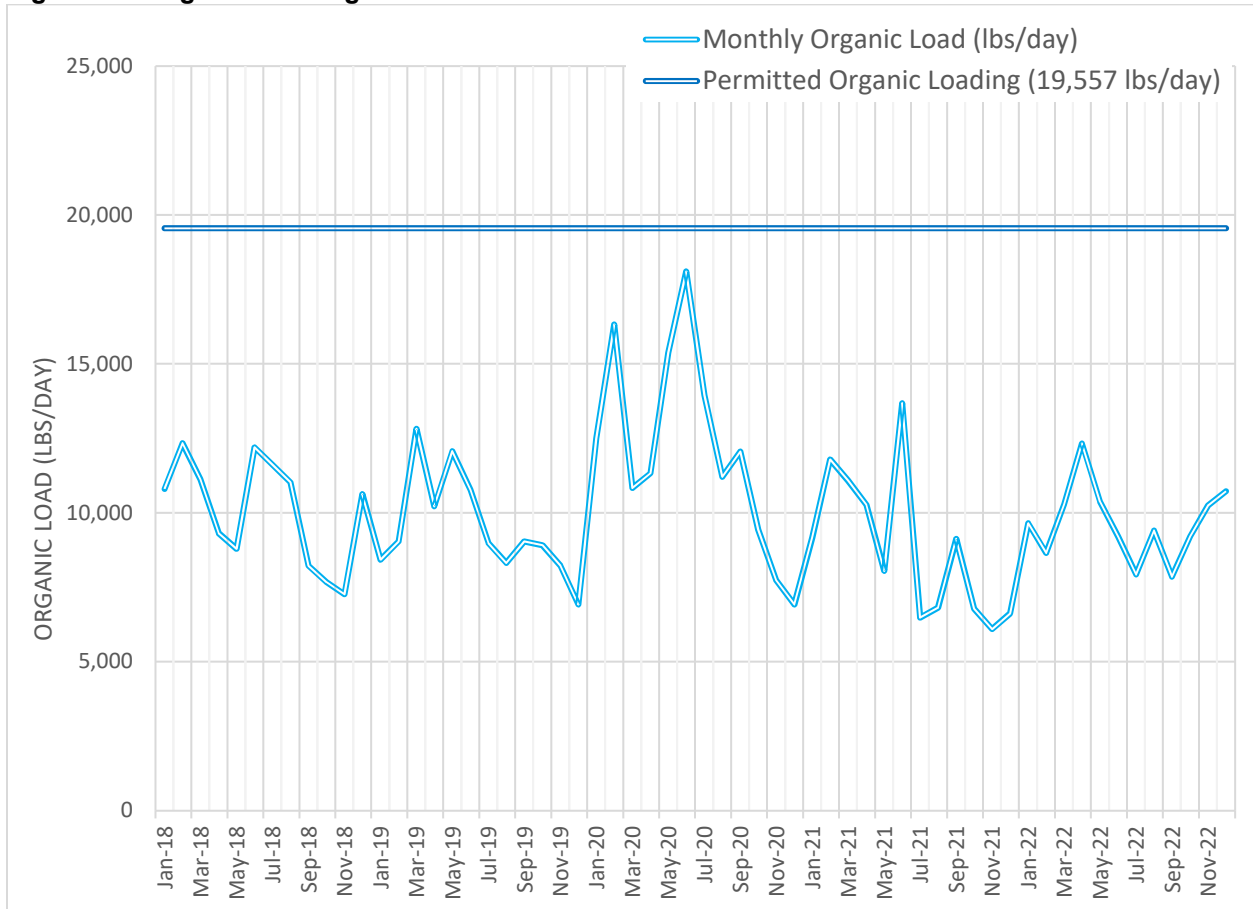
Figure 2.1 presents the organic loading data for 2018 - 2022. The 2022 annual average organic loading to the WWTP was 9,659 lbs/day. The peak organic loading of 12,333 lbs/day was recorded in April 2022. The ratio of peak organic loading to annual average loading for 2022 was 1.28.

The average monthly influent organic loading is less than the organic design capacity of 19,557 lbs BOD₅/day. Figure 2.2 presents a graph of the annual organic loading at the sewage treatment plant for 2018 - 2022.

Table 2.2: Organic Loading for 2018 - 2022

Monthly Organic Loading (lbs/day)					
Month	2018	2019	2020	2021	2022
January	10,800	8,433	12,499	9,165	9,650
February	12,335	9,037	16,326	11,793	8,653
March	11,125	12,822	10,839	11,083	10,284
April	9,321	10,218	11,330	10,278	12,333
May	8,792	12,076	15,380	8,050	10,388
June	12,199	10,772	18,106	13,687	9,203
July	12,199	8,984	13,953	6,481	7,931
August	11,034	8,319	11,210	6,819	9,409
September	8,221	9,044	12,057	9,127	7,860
October	7,673	8,907	9,439	6,780	9,215
November	7,269	8,223	7,736	6,100	10,257
December	10,635	6,920	9,687	6,618	10,723
Annual Avg	10,086	9,480	12,380	8,832	9,659
Max Month Avg	12,335	12,822	18,106	13,687	12,333
Max Avg Ratio	1.22	1.35	1.46	1.55	1.28

Figure 2.2: Organic Loading for 2018 - 2022



3 5-Year Hydraulic and Organic Loading Projections

The hydraulic loading and the organic loading projections for the next five years are shown in Appendix A. Neither hydraulic nor organic loading is expected to experience an overload in the next five years.

PAWC, in coordination with tributary municipalities, provides on-going and revised projections through PAWC's CMP which will be submitted to PADEP on an as-needed basis. The CMP has two summaries of projections on the Projected New Connections table in the report and the first reflects those developments with approved planning modules and the second includes the approved developments plus the developments pending planning module approval. The flow projections presented below are somewhat different than the projections presented in the CMP. Flow projections below were derived following the method described in the PADEP Chapter 94 Municipal Wasteload Management Overview and Summary document (3850-BK-DEP 4450 rev9/2014). The March 2023 CMP can be found in Appendix B.

3.1 5-Year Hydraulic Loading Projections

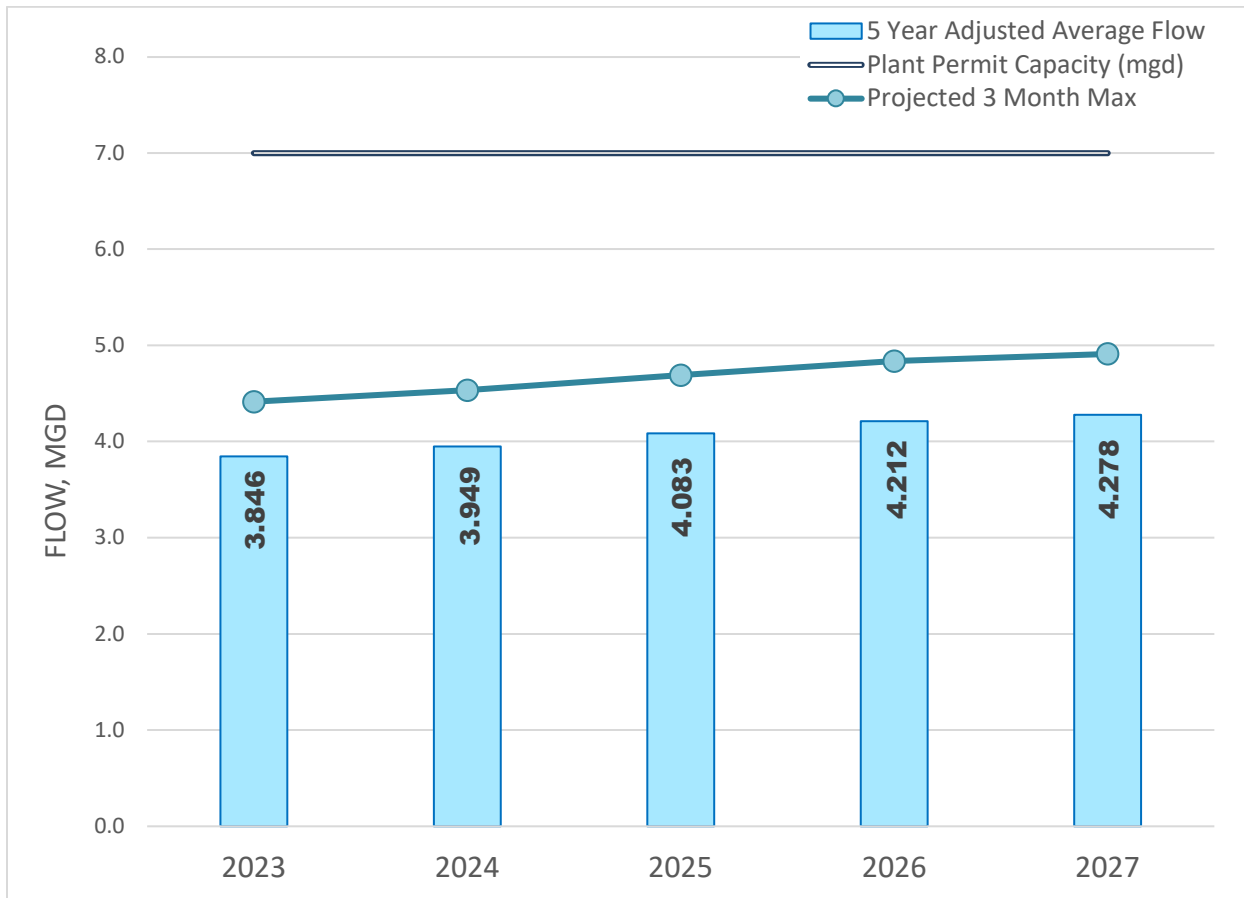
Table 3.1 summarizes the hydraulic loading projections, which are calculated to increase from 3.750 mgd Adjusted Average Flow in 2022, to 4.278 mgd in 2027. These projections are based on the table Projected New Connections of the Connection Management Plan Revised: March 2023 (See Appendix B), and projects 2,397 new Equivalent Dwelling Units ("EDU") between 2023 and 2027. The Projected New Connections table in the CMP provides the best estimate of development projects for the next five years based on the information received from the tributary municipalities and the continuing economic conditions. The Projected New Connection table in the CMP also shows all developments with approved planning modules and developments that are actively moving forward toward approval.

The projections in Table 3.1 for the annual average and the peak three-month hydraulic loadings to the WWTP for the next five years (2023 to 2027) are based on the Adjusted Annual Average flow from 2022 and the expected number of new connections to the system over the next five years.

Flow projections indicate that both average and maximum 3-month flows into the WWTP will not exceed the permit limit of 7.0 MGD.

Table 3.1: 5-Year Flow Projections

	Flow Projections				
	(MGD)				
	2023	2024	2025	2026	2027
Previous Year Avg Flow	3.739	3.846	3.949	4.083	4.212
New EDUs	474	458	598	570	297
New EDU Flow	0.107	0.103	0.135	0.128	0.067
Proj. Annual Avg	3.846	3.949	4.083	4.212	4.278
Proj. Max 3-mo Avg	4.416	4.534	4.689	4.836	4.913
Peaking Factor	1.15	(average of 2018 - 2022)			

Figure 3.1: 5-Year Projected Hydraulic Loading

3.2 5-Year Organic Loading Projections

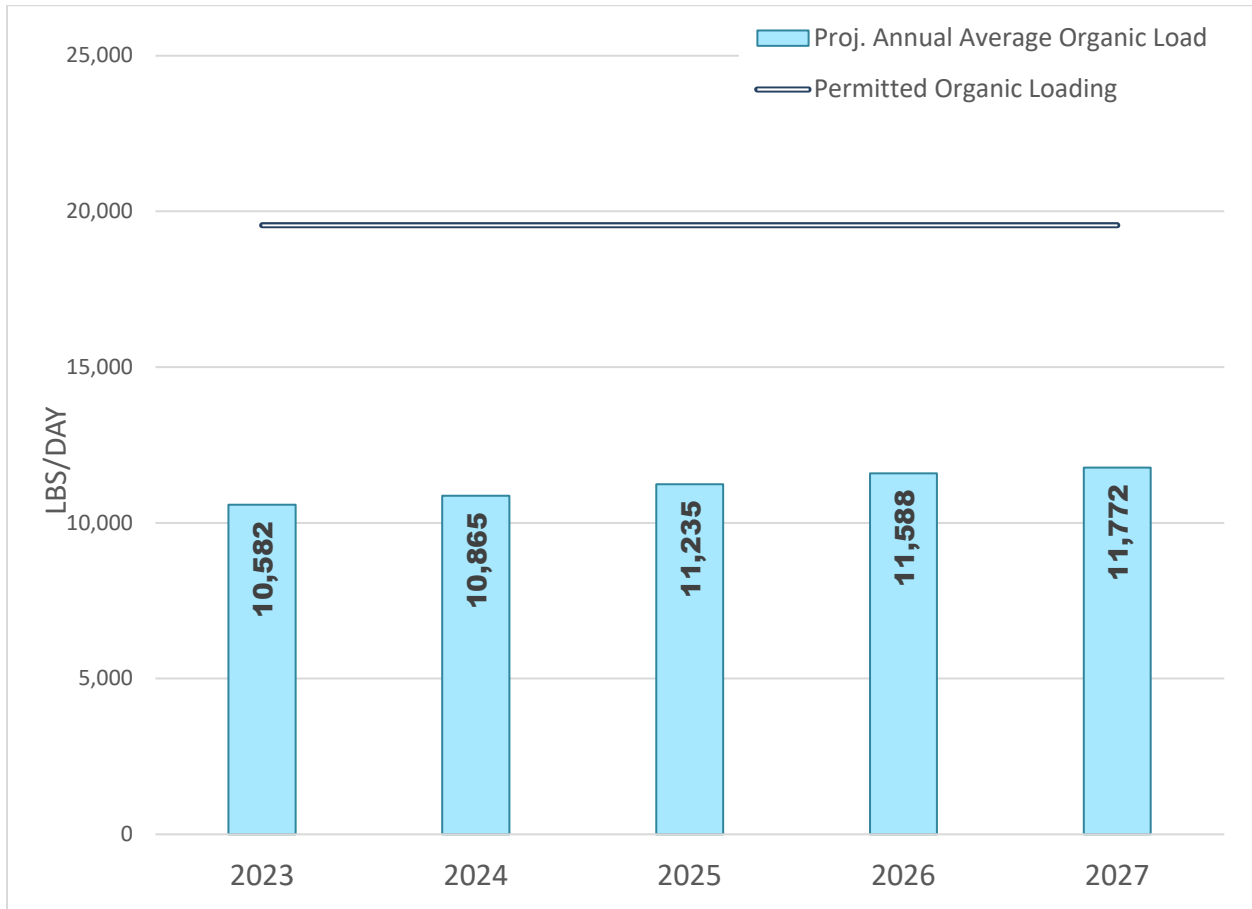
The projected annual average organic loading for the next five years was calculated by multiplying the adjusted annual average flow by the prior 5-year average influent BOD₅ concentration. Similarly, the maximum organic loading was calculated by multiplying the annual average organic loading by the prior 5-year peaking factor.

Table 3.2: 5-Year Organic Loading Projections

	2023	2024	2025	2026	2027
Previous Year Org. Load, lbs/d	10,087	10,582	10,865	11,235	11,588
Adjust Annual Average Flow, MGD	3.739	3.846	3.949	4.083	4.212
Previous 5 Year Influent BOD Concentration, mg/L	330	330	330	330	330
Proj. Annual Avg Load, lbs/d	10,582	10,865	11,235	11,588	11,772
Proj. Max Avg, lbs/d	14,528	14,917	15,426	15,910	16,163
5-Year Organic Load Concentration	330 mg/L		(average of 2018 - 2022)		
5-Year Average Peaking Factor	1.37		(average of 2018 - 2022)		

The Coatesville WWTP has a permitted organic loading of 19,557 lbs BOD/day based on an influent flow rate of 7.0 mgd. As shown in Figure 3.2: 5-Year Project Organic Loading, no organic overloads are projected for the next 5 years.

Figure 3.2: 5-Year Projected Organic Loading



4 Sewer Extensions

Attached in Appendix G is a map showing the PAWC certificated franchise area. The Projected New Connections table of the CMP found in Appendix B, provides the list of developments with the projected EDUs for each and a connection schedule provided by each municipality over the next five years. Included in Appendix H are three tables showing developments approved or exempt and under construction, developments approved or exempt and not yet under construction, and developments in the preliminary planning stages. These tables are based on the CMP and information received from the tributary municipalities and include the equivalent population for each.

In 2022, the entire Coatesville sewerage system had 272 new EDUs connect to the system. 139 EDUs were connected in the PAWC certificated franchise area and an additional 133 EDUs connected in the area served by the Bulk customers.

In 2022, there were no sewer main extensions.

West Brandywine Township showed the highest growth with 80 new EDUs connected in 2022.

5 Program for Sanitary Sewer Monitoring, Maintenance and Repair

5.1 Inflow/Infiltration

PAWC has divided the older portions of the sewer system into ten basins. In each basin, PAWC owns and maintains portable flow meters for system and infiltration/inflow monitoring. The meters are checked and downloaded every two weeks to ensure proper operation.

The areas outside of the basins have the flows monitored by meters at 23 of the 25 pump stations (two of the smaller stations pump to larger ones within the same subdivisions/development) in the Coatesville area. The meters at the pump stations have Teloggers which allow for accurate and instantaneous flow data. The meters are calibrated on a semi-annual basis. The pump stations are physically checked and maintained by the four employees in the PAWC Collection Department.

The two pump stations with no flow meters are Branford Village PS #2 and Robin Cove PS #1. These pump stations each serve a small area and discharge into a larger pump station in the same development which have flow meters. Therefore, no meters are planned to be installed at these two pump stations. In 2011, a flow meter was installed on Mt. Carmel Road to monitor the flow from both Strasburg Hunt PS #1 and Strasburg Hunt PS #2 to collect data from both stations to achieve the PADEP requirement.

PAWC also owns and maintains eight meters with Teloggers that monitor and record flows from four bulk customers and the Marriott Hotel. Data at all metering points are recorded daily and analyzed to determine areas to target for future infiltration/inflow work.

PAWC employees annually flush and clean approximately 17 miles of sewer main in the Coatesville area. They clean all pump station wet wells on a quarterly basis and perform semi-annual maintenance on 17 air release chambers with the Jet/Vac truck owned and maintained by PAWC.

PAWC annually awards a contract for I&I work. The I&I work includes sewer flushing, televising, pressure test and grouting, manhole inspection and rehabilitation services. The data from various metering points are used to determine which area PAWC will address each year. The results of the I&I inspections form the basis for PAWC maintenance, repairs, and capital work.

In 2022, PAWC replaced approximately 389 LF of 8" sewer main, 752 LF of 12" sewer main, 6 laterals, and 5 manholes in Parkesburg Borough, and 2,260 LF of 8" sewer main, 245 laterals, and 22 manholes in the City of Coatesville.

Data at all metering points are recorded daily and analyzed to determine areas to target for future infiltration/inflow work.

6 Sanitary Sewer System Condition

In accordance with Pa Code Title 25, Chapter 71, PAWC continues to provide ongoing analyses of its collection and conveyance system in order to identify existing problems and areas in need of improvements as a result of planned connections and commensurate flows. Current and past Chapter 94 reporting, the PAWC-sponsored Act 537 Plan, in addition to the ongoing connection management plans (CMP), contain detailed information on completed and in-process upgrades to critical sections of the system.

There were two sanitary sewer overflows in the system in 2022. The first occurred on May 23 at 285 Misty Patch Road. The SSO was discovered by the property owner due to water surfacing in front of the driveway. The overflow was caused due to a blow out of the 8" C-900 PVC sanitary sewer force main. There was no obvious cause of the pipe failure. It is estimated that 35,000 gallons flowed from the force main. A six-foot section of the force main was replaced to stop the SSO, and the water that had surfaced on the driveway was removed and rinsed down. Most of the SSO was absorbed by the ground and the leak was under a paved road. Some of the SSO did reach a small stream, but no fish were killed, as observed by PADEP. The second sanitary sewer overflow occurred at a manhole on Rainbow Road between Mifflin Street and Lafayette Street on June 15. The overflow was discovered by the Valley Township Roadmaster due to water flowing from the manhole. The overflow occurred because the PVC main was crushed outside of the downstream manhole at Lafayette Street and Rainbow Road. The estimated total volume of overflow from the manhole was 100-200 gallons. The crushed section of the pipe was replaced to stop the SSO, and the contaminated area of the street was rinsed down. No solids were observed. The SSO flowed to a wooded area on the side of the road. There are no waterways in the area.

In order to identify collection & conveyance system improvements needed to serve the future needs of the tributary municipalities, PAWC analyzed the major system components with regard to existing capacities and the future flows presented in the PAWC-sponsored Act 537 Plan. The extent of the system analysis included the East End Trunk Line (EETL) and tributary major collection segments, and the main interceptor, which conveys all flows to the WWTP. Uncertainty about timing and specific locations of future developments make accurate identification of improvements needed in further reaches of the collection system difficult at this time. It is expected that such localized collection concerns will be addressed through regular Chapter 94 reporting and individual planning module processes.

In the required Connection Management Plan ("CMP") Revised: March 2023 (See Appendix B), PAWC presented one specific area of the conveyance system that was identified as the most restrictive segment and is projected to be hydraulically overloaded within 5 years. PAWC will monitor growth upstream of the identified segment and implement upgrades prior to a hydraulic overload condition. Each segment on the East End Truck line has received PADEP permitting for the proposed upgrade.

A Corrective Action Plan (CAP) for each is included with each update of the CMP.

Table B1 highlights the EETL segments of MH EE 015 to MH EE 018 as a projected hydraulic overload. Previous manhole numbering systems relating to the same segments MH 26 to MH 29, and MH 430, MH 433, MH 434, and MH 1044. The remaining hydraulic capacity equates to 1,256 EDU's allowed prior to the upgrade of these sections. 1,204 EDUs are projected in 5 years from the areas contributing to these segments: West Brandywine Township, Caln Township, the eastern section of East Fallowfield, and portions of Coatesville Basin C6 and C7. Starting with 2010 as the base flow, Table B1 shows 135 EDUs connected within the specified area. These connections will be monitored by PAWC, and the improvements will be completed prior to the connection of the 1,256th EDU.

Included in Appendix B is the Connection Management Plan Revised: March 2023, which contains the required Corrective Action Plans (CAP) for each area where there is a projected hydraulic overload. The CMP also provides the current best estimates for growth over the next five years based on the information received from the tributary municipalities. While the CMP projects slower growth over the next five years than the Act 537, PAWC will monitor the growth, and implement the required improvements prior to a hydraulic overload. The CAP for the EETL details the steps PAWC will perform.

7 Pumping Stations

PAWC owns 25 sewer pump stations as listed in Appendix F and described below. These pump stations are maintained by PAWC staff on a regular basis to insure proper and efficient operation. All pump stations are functioning properly. Internal pump stations located within the bulk service municipalities are owned and maintained by the respective municipality.

Tel-log metering data as discussed in this report is recorded on a daily basis for the entire 2022 calendar year and is presented on the PAWC Municipal Flows table in Appendix C. Maximum Day(s) are selected and the Tel-log data is viewed to determine the Peak Hourly Flow from each metering point. Data is analyzed to determine the ratio of peak flow to annual average flow.

Documentation provided in Table 4 in Appendix B shows that the pump stations can convey the existing maximum flows with any one pump out of service. Two-year projected flow data for each pumping station is provided in the table below and is based upon the CMP attached in Appendix B. The analysis of the 25 PAWC pump stations in Table 4 shows that one pump station, Rock Run Pump Station, is projected to be at capacity in two years. Additionally, the Valley View Business Park Pump Station's Annual Average Flow exceeds the current Annual Average Permitted Capacity but is below the Hydraulic Design Capacity. The Annual Average Permitted Capacity will be revisited in Planning Modules for proposed upstream development. PAWC will continue to monitor all stations.

8 Industrial Pretreatment Program

The Industrial Pretreatment Program (IPP) was completed and instituted in 2012. PAWC is currently performing quarterly sampling at identified potential commercial and industrial dischargers. PAWC is also implementing a surcharge on limits for BOD and TSS.

This activity was initiated by PAWC when the Coatesville Area Wastewater Treatment Plant was upgraded and expanded to a design treatment capacity greater than 5.0 mgd. The NPDES permit received in 2019 requires updates to the IPP, and PAWC has and will be making submissions as required by the NPDES permit.

Appendix E contains a copy of the PAWC Sewer Use Rules and Regulations and Industrial Use Survey.

9 Corrective Action Plan

There are no present overload conditions identified in the PAWC sewage system. Projected hydraulic overloads of the collection and conveyance system are identified and discussed in the CMP and CAP in Appendix B.

The projected hydraulic overload of the treatment facility was eliminated in 2010 with the conclusion of the Coatesville Wastewater Treatment Plant construction and the termination of the Consent Order and Agreement.

10 Meter Calibration Reports

10.1 WWTP Influent Flowmeter

With the most recent expansion of the wastewater treatment facility, a new influent flowmeter was installed and is fully operational as of June 2009. The meter is a Parshall Flume with an ultrasonic level sensor and measures all flows on a continuous recorder as part of the SCADA system at the treatment facility. The influent meter was last calibrated on April 22, 2022, and the calibration log is shown in Appendix D.

10.2 WWTP Effluent Flowmeter

In 2010 a new effluent meter was installed and is fully operational. The meter is two ultrasonic transducers measuring the level over two different size rectangular weirs. The effluent meter sensors are calibrated annually, and the calibration logs are shown in Appendix D.

11 Contributing Municipalities

There was a total of 272 new EDUs connected to the collection system during 2022 throughout the ten tributary municipalities. PAWC Municipal Flows 2022 table in Appendix C lists the monthly, annual, and average daily flows from each of the tributary municipalities. The City of Coatesville, West Sadsbury Township, East Fallowfield Township, Borough of Parkesburg, West Caln Township, and Highland Township have 139 new 2022 connections in total for 2022; however, the individual breakdown per municipality was not able to be obtained. A summary of the average daily flows for each municipality follows.

11.1 City of Coatesville

The City of Coatesville's average influent daily flow for 2022 was 1,639,904 gpd; for comparison, it was 962,220 gpd in 2021.

The City of Coatesville is projecting an increase of 142,200 gpd over the next five years pending PADEP approval. Most of the projected EDUs are residential with some allocated for commercial purposes. A large percentage of the projected residential EDUs are part of the City of Coatesville Revitalization Project. All sewer facilities in the City are owned, operated and maintained by PAWC.

11.2 Caln Township

Caln Township's (Bulk Service) 2022 average daily flow, which does not include the Veterans Hospital, or the Brandywine Hospital located within the Township, was 115,704; for comparison it was 166,656 gpd in 2021. There was 53 new EDUs added in Caln during 2022.

The 2022 Caln Township Chapter 94 Report projects that over the next five years Caln Township will increase its flows by 455,136 gpd. This includes the planned diversion from the Downingtown Area Regional Authority ("DARA") to the PAWC collection and treatment system. This flow diversion was begun on November 7, 2021, when the Township's new Municipal Drive Pump Station was placed into service.

All sewer facilities in the Township are owned, operated, and maintained by the Caln Township Municipal Authority. Caln Township's full 2022 Chapter 94 Report is submitted directly to PADEP.

In March 2005, PAWC and Caln Township entered into an agreement with PAWC to increase the capacity from 180,000 gpd to 570,000 gpd in Phase 1 of the agreement and would require Caln to pay for certain identified improvements to the East End Trunk Line ("EETL"). Phase II of the agreement, approved on November 19, 2009, increased the capacity to 800,000 gpd after the plant expansion and also pending additional identified improvements to the EETL.

11.3 Sadsbury Township

Sadsbury Township's average daily flow for 2022 was 220,270 gpd; for comparison it was 244,072 gpd in 2021. By agreement, PAWC had agreed to furnish capacity in the amount of 410,750 gpd, but since the acquisition of the Sadsbury wastewater system by PAWC, future allocation will be distributed on a first come first serve basis as with all other direct customers. There were 76 new EDUs added in Sadsbury in 2022 to the PAWC system.

Sadsbury Township is projecting an additional 99,000 gpd over the next five years. Sadsbury Township has been experiencing problems with existing on-lot systems and is continuing to pursue public sewers throughout the Township. The Township is in the process of revising its Act 537 Sewage Facilities Plan.

11.4 Valley Township

Valley Township's average daily flow for 2022 was 914,989 gpd; for comparison, it was 934,108 gpd in 2021. There were 3 new EDUs added in Valley in 2022. By agreement, PAWC has agreed to furnish capacity in the amount of 1,140,000 gpd to Valley, but since the acquisition of the Valley wastewater system by PAWC in 2021, future allocation will be distributed on a first come first serve basis as with all other direct customers.

Valley Township is projecting an increase of approximately 74,925 gpd over the next five years, which will be both residential and commercial in nature.

11.5 West Brandywine Township

West Brandywine Township's (Bulk Service) average daily flow for 2022 was 172,985 gpd; for comparison it was 178,002 gpd in 2021. There were 80 new EDUs added in West Brandywine during 2022.

The West Brandywine Township 2022 Chapter 94 Report is projecting an additional 91,800 gpd over the next five years pending PADEP approval.

West Brandywine submitted a Limited Scope Study Act 537 Revision to PADEP to allow the start-up of two new residential subdivisions, which was approved by PADEP on January 17, 2006. Through additional discussions and by letter dated December 13, 2007, PADEP advised West Brandywine Township, "According to the Department's September 5, 2007, approval of the PAWC 2nd Quarter 2007 Corrective Action Plan and Connection Management Plan, a total of 140 connections (31,400 gpd @ 225 gpd EDU) have been allocated to both the Culbertson and Swinehart residential projects prior to the expansion of PAWC's facilities. On December 11, 2008, PAWC and West Brandywine Township executed the Second Addendum to the June 16, 1994, original agreement. The Addendum provides for West Brandywine to connect up to an additional 836 EDUs based upon 225 gpd/EDU, this amounts to an average daily flow increase of 188,100 gpd.

11.6 Parkesburg Borough

Parkesburg Borough's average daily flow in 2022 was 185,975; for comparison it was 295,293 gpd in 2021.

Parkesburg Borough is projecting an additional flow of 23,400 gpd over the next five years. All sewer facilities in the Borough are owned, operated, and maintained by PAWC.

11.7 East Fallowfield Township

East Fallowfield Township's average daily flow in 2022 was 153,298 gpd; for comparison, it was 149,955 gpd in 2021. There were 15 new EDUs added in East Fallowfield in 2022.

East Fallowfield Township is projecting an additional flow of 7,200 gpd from residential development in the next five years.

11.8 West Caln Township

West Caln Township's average daily flow in 2022 was 25,331 gpd; for comparison, it was 40,870 gpd in 2021.

West Caln Township is projecting an additional 12,150 gpd over the next five years. All sewer facilities in the Township are owned, operated, and maintained by PAWC.

11.9 West Sadsbury Township

West Sadsbury Township's average daily flow for 2022 was 111,676 gpd; for comparison, it was 120,358 gpd in 2021.

West Sadsbury Township is projecting an additional flow of 32,625 gpd over the next five years. All facilities in the Township are owned, operated, and maintained by PAWC.

11.10 Highland Township

Highland Township has three, single family sewer connections to the PAWC system located on Borough Line Road across from the Parkesburg Pump Station. These three connections were allowed by PADEP due to inadequate on-lot sewage facilities. Highland is presently working on its Act 537 Plan. There is one planned residential subdivision, Woodview Acres, within the municipality with 54 EDU's proposed when the Act 537 Plan is approved by PADEP.

Highland Township projects an additional flow of 8,775 gpd over the next five years pending approval of the Woodview Acres subdivision.

11.11 Veterans Administration Hospital

The Veterans Administration Hospital's ("VA") average daily flow in 2022 was 77,211 gpd; for comparison, it was 151,012 gpd in 2021. The VA is now constructing a new building which will increase the flow by 4,150 gpd; however, this is well within the tolerance of the annual variance based upon weather, so we do not anticipate any immediate significant change in wastewater flows. The possible closure and/or future re-use of the VA facility could alter the daily flows, but such impact is not known at this time.

The VA sewer line was constructed by West Brandywine in January 1998, and the flow meter at Eleventh Street and Diamond Street has given PAWC additional information to more accurately determine the VA Hospital flows. All sewer facilities in the Hospital property are owned, operated, and maintained by the Hospital.

11.12 Other Contributors

Other contributors to the PAWC treatment plant include 13 septic waste haulers from various areas in our region. These flows contributed an annual average of 49,049 gpd in 2022; for comparison, the average was 51,237 gpd in 2021. This amount is anticipated to remain consistent over the next five years.

The PAWC treatment plant also serves three residential homes in the Borough of South Coatesville. These three homes were able to connect to existing PAWC collection system piping fronting the homes. The Borough of South Coatesville supported the additional PAWC franchise area to serve these three homes and PADEP's planning module exemption approval.

A. PADEP Chapter 94 Spreadsheet

Reporting Year:

Facility Name:

Permit No.:

Persons/EDU:

Existing Hydraulic Design Capacity: MGD
 Upgrade Planned in Next 5 Years? Year:
 Future Hydraulic Design Capacity: MGD

Existing Organic Design Capacity: lbs BOD5/day
 Upgrade Planned in Next 5 Years? Year:
 Future Organic Design Capacity: lbs BOD5/day

Monthly Average Flows for Past Five Years (MGD)

Month	2018	2019	2020	2021	2022
January	3.46589	4.323	3.68	3.605	3.62728
February	4.197	4.037	3.907	3.666	3.77935
March	4.139	4.466	3.783	4.037	3.68869
April	3.672	3.691	4.156	3.646	4.2104
May	4.465	3.875	3.847	3.026	4.17135
June	4.482	3.485	3.69	3.762	3.84201
July	4.727	3.233	3.358	2.932	3.60054
August	5.81	2.749	3.951	2.823	3.39381
September	4.453	2.405	3.462	3.708	3.40869
October	3.446	2.474	3.515	2.878	3.80907
November	4.389	2.553	3.623	2.695	3.42515
December	4.369	2.826	4.325	2.746	3.36971

Monthly Average BOD5 Loads for Past Five Years (lbs/day)

Month	2018	2019	2020	2021	2022
January	10,800	8,433	12,499	9,165	9,650
February	12,335	9,037	16,326	11,793	8,653
March	11,125	12,822	10,839	11,083	10,284
April	9,321	10,218	11,330	10,278	12,333
May	8,792	12,076	15,380	8,050	10,388
June	12,199	10,772	18,106	13,687	9,203
July	11,622	8,984	13,953	6,481	7,931
August	11,034	8,319	11,210	6,819	9,409
September	8,221	9,044	12,057	9,127	7,860
October	7,673	8,907	9,439	6,780	9,215
November	7,269	8,223	7,736	6,100	10,257
December	10,635	6,920	9,687	6,618	10,723

Annual Avg 4.30124 3.343 3.775 3.294 3.693836
 Max 3-Mo Avg 5.00633 4.36 3.949 3.865 4.074584
 Max : Avg Ratio 1.16 1.30 1.05 1.17 1.10
 Existing EDUs
 Flow/EDU (GPD)
 Flow/Capita (GPD)
 Exist. Overload?

Annual Avg 10,086 9,480 12,380 8,832 9,659
 Max Mo Avg 12,335 12,822 18,106 13,687 12,333
 Max : Avg Ratio 1.22 1.35 1.46 1.55 1.28
 Existing EDUs
 Load/EDU
 Load/Capita
 Exist. Overload?

Projected Flows for Next Five Years (MGD)

	2023	2024	2025	2026	2027
New EDUs	474.0	458.0	598.0	570.0	297.0
New EDU Flow	0.1659	0.1603	0.2093	0.1995	0.10395
Proj. Annual Avg	3.84732	4.00762	4.21692	4.41642	4.52037
Proj. Max 3-Mo Avg	4.4557	4.64135	4.88374	5.11479	5.23518
Proj. Overload?	<input type="text" value="NO"/>	<input type="text" value="NO"/>	<input type="text" value="NO"/>	<input type="text" value="NO"/>	<input type="text" value="NO"/>

Projected BOD5 Loads for Next Five Years (lbs/day)

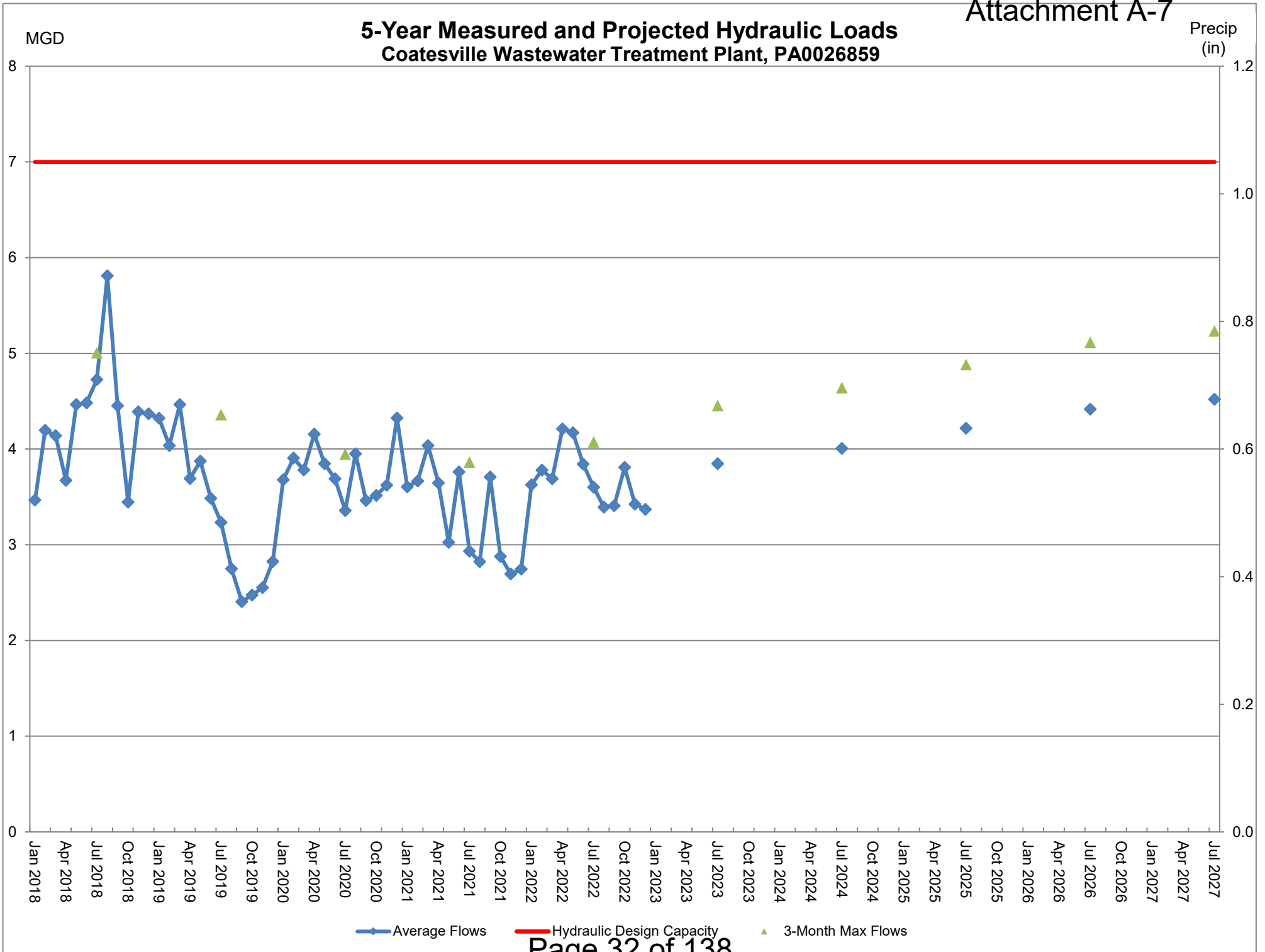
	2023	2024	2025	2026	2027
New EDUs	474	458	598	570	297
New EDU Load	276.816	267.472	349.232	332.880	173.448
Proj. Annual Avg	10,364	10,631	10,981	11,314	11,487
Proj. Max Avg	14,229	14,596	15,076	15,533	15,771
Proj. Overload?	<input type="text" value="NO"/>	<input type="text" value="NO"/>	<input type="text" value="NO"/>	<input type="text" value="NO"/>	<input type="text" value="NO"/>

Show Precipitation Data on Hydraulic Graph?

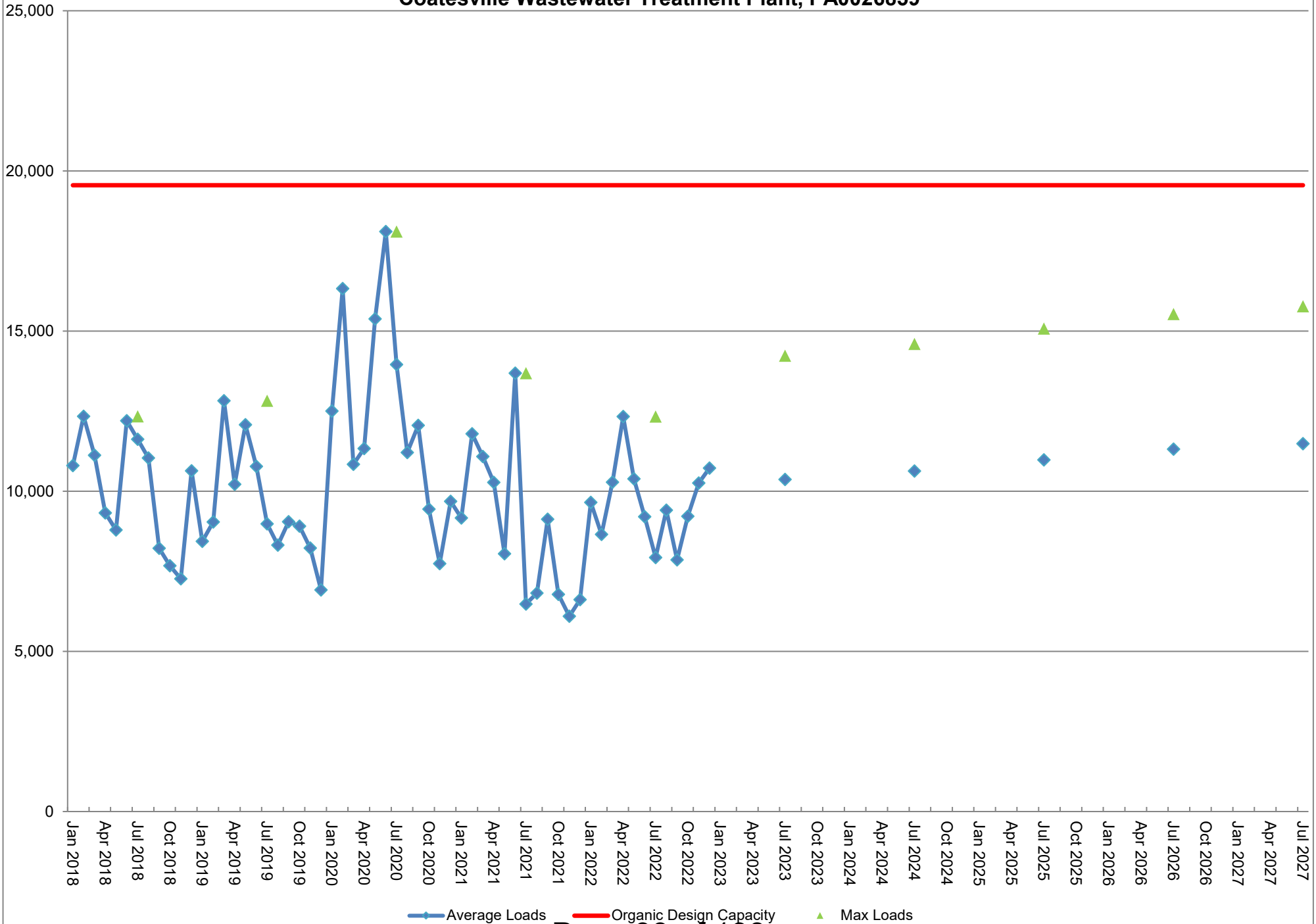
Total Monthly Precipitation for Past Five Years (Inches)

Month	2018	2019	2020	2021	2022
January	1.9	3.56	3.62	2.0	3.35
February	7.96	2.93	3.4	3.3	1.79
March	4.37	2.85	3.72	4.0	3.36
April	3.29	4.49	4.55	2.4	5.49
May	6.27	6.25	1.97	4.0	4.32
June	2.55	6.17	4.68	9.7	4.55
July	8.62	6.61	3.6	4.5	4.02
August	11.43	3.15	11.21	7.3	1.95
September	8.4	0.27	2.57	12.1	4.21
October	3.41	6.42	3.71	4.5	5.17
November	6.66	1.2	5.28	1.3	3.52
December	6.21	4.2	3.55	2.2	4.71

5-Year Measured and Projected Hydraulic Loads Coatesville Wastewater Treatment Plant, PA0026859



5-Year Measured and Projected Organic Loads Coatesville Wastewater Treatment Plant, PA0026859



B. March 2023 CMP



PENNSYLVANIA
AMERICAN WATER

COATESVILLE DISTRICT
CHESTER COUNTY

**CONNECTION MANAGEMENT PLAN
WASTEWATER TREATMENT PLANT
AND
COLLECTION SYSTEM**

REPORTING Data REVISED: March 2023

PREPARED BY:
PENNSYLVANIA - AMERICAN WATER COMPANY
COATESVILLE DISTRICT
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CONNECTION MANAGEMENT PLAN
CONVEYANCE & COLLECTION SYSTEM REPORTING
 Data REVISED: March 2022

SUMMARY OF CORRECTIVE ACTION

East End Trunk Line Corrective Action Plan (CAP)

Previous Connection Management Plans (CMP) identified various East End Trunk Line (EETL) segments as the most critical section. The EETL segments previously awarded for replacement (sections 19 through 26 and 29 through 31) were completed in 2007. In 2014, PAWC completed the replacement of additional segments of the EETL (sections 36 through 46) that were previously identified as a projected overload. With growth projections based on the 2013 Chapter 94 report data received from each municipality and updated in this October 2014 revised CMP, there are up to three segments of the EETL that are under a projected hydraulic overload. 2010 metered flow data throughout the Coatesville collection system was utilized in comparison of the hydraulic capacity of each segment to determine the remaining hydraulic capacity.

Table B1 of the CMP highlights the EETL segments of MH EE 015 to MH EE 018 as a projected hydraulic overload. Previous manhole numbering systems relating to the same segments MH 26 to MH 29, and MH 430, MH 433, MH 434, and MH 1044. The remaining hydraulic capacity equates to 1256 EDU's allowed prior to the upgrade of these sections. 1204 EDU's are projected in 5 years from the areas contributing to these segments, West Brandywine Township, Caln Township, the eastern section of East Fallowfield, and portions of Coatesville Basin C6 and C7. Starting with 2010 as the base flow, Table B1 shows 135 EDU's connected through March 2022. These connections will be monitored by PAWC and the improvements will be completed prior to the connection of the 1256th EDU.

Below is a schedule of corrective actions PAWC has and will take in the future to improve this projected hydraulic overload.

- PAWC has completed the design and DEP issued the Part II Permit on April 27, 2005 for the entire EETL.
- PAWC completed construction of MH #16 to #18 of the EETL and placed into service on 5/10/06.
- PAWC completed construction of MH sections 19 through 26 and 29 through 31 of the EETL and placed into service on 1/25/07.
- PAWC completed construction of MH sections 36 through 46 of the EETL and placed into service on 6/30/14.
- PAWC will continue to monitor the growth rate upstream of these developments, continue flow monitoring, and Sewer Gems modeling of the EETL.
- PAWC will reissue bidding documents when the projected overload is within two years.
- PAWC will award a contract for the necessary improvements with 120 days after the receipt of bids.
- PAWC will issue the Notice to Proceed within 90 days after the Notice of Award.
- PAWC will substantially complete construction of the necessary improvements within 180 days after the Notice to Proceed.

West End Trunk Line Corrective Action Plan (CAP)

Previous Connection Management Plans (CMP) identified various West End Trunk Line (WETL) segments as the most critical section. All upgrades related to the WETL were completed in 2021.

Borough of Parkesburg Collection System - Corrective Action Plan (CAP)

All work related to the CAP for the Parkesburg Collection System was completed in 2021.

**CONNECTION MANAGEMENT PLAN - REPORTING Data REVISED: March 2023
WASTEWATER TREATMENT PLANT FLOWS**

TABLE 1

MONTH	MONTHLY FLOW AVERAGE (MGD)				MONTHLY FLOW AVERAGE (MGD)	2022	
	YEAR	2018	2019	2020		3 MONTH MAXIMUM (MGD)	RAIN TOTAL (in.)
		2018	2019	2020		2021	
JANUARY	3.436	4.323	3.680	3.605	3.627		3.35
FEBRUARY	4.197	4.037	3.907	3.666	3.779		1.79
MARCH	4.139	4.466	3.783	4.037	3.689	3.698	3.36
APRIL	3.672	3.691	4.156	3.646	4.210	3.893	5.49
MAY	4.465	3.875	3.847	3.026	4.171	4.023	4.32
JUNE	4.482	3.485	3.690	3.762	3.842	4.075	4.55
JULY	4.727	3.233	3.358	2.932	3.601	3.871	4.02
AUGUST	5.810	2.749	3.951	2.825	3.394	3.612	1.95
SEPTEMBER	4.453	2.405	3.462	3.708	3.409	3.468	4.21
OCTOBER	3.446	2.474	3.515	2.878	3.809	3.537	5.17
NOVEMBER	4.389	2.553	3.623	2.695	3.425	3.548	3.52
DECEMBER	3.320	2.826	4.325	2.746	3.370	3.535	4.71
AVERAGE	4.211	3.343	3.775	3.294	3.6938	--	3.87
3 Month MAX	5.006	4.275	3.949	3.783	--	4.075	--

Number of New Connections for Each Quarter 2022	
1st Quarter	
2nd Quarter	
3rd Quarter	
4th Quarter	272
Total for Year	272

5 YEAR FLOW HISTORY			
	ANNUAL AVERAGE	3 MONTH MAXIMUM	PEAKING FACTOR
2022	3.694	4.075	1.103
2021	3.294	3.783	1.149
2020	3.775	3.949	1.046
2019	3.343	4.275	1.279
2018	4.211	5.006	1.189

RUNNING ANNUAL AVERAGE FLOW

3.6938 MGD January 2022 - December 2022

RUNNING 5 YEAR AVERAGE

3.663 4.218 1.151

TABLE 2

PROJECTED TOTAL PER CMP, REVISED March 2023 - BASED ON ANNUAL AVERAGE (GPD)								
	Act 537 Approved Contracted Allocation	Chapter 94 Flow 2022	2023	2024	2025	2026	2027	5-year Net Increase
City of Coatesville	*	1,639,904	1,662,629	1,687,154	1,710,554	1,761,854	1,782,104	142,200
Valley Township	*	914,989	923,989	945,814	971,239	980,914	989,914	74,925
Caln Township	800,000	115,704	123,804	131,229	155,304	159,129	162,954	47,250
West Brandywine Township	345,000	172,985	185,810	199,760	221,585	243,185	264,785	91,800
Sadsbury Township	*	220,270	258,520	272,695	290,470	307,120	319,270	99,000
West Sadsbury Township	*	111,676	115,951	122,926	132,376	144,301	144,301	32,625
East Fallowfield Township	*	153,298	157,573	160,048	160,273	160,498	160,498	7,200
Borough of Parkesburg	*	185,975	190,250	195,875	202,175	209,375	209,375	23,400
West Caln Township	*	25,331	26,906	30,506	34,106	37,481	37,481	12,150
Veterans Hospital	*	77,211	77,211	77,211	77,211	77,211	77,211	-
Highland Township		681	2,031	4,506	6,981	9,456	9,456	8,775
Bulk Delivery		49,049	49,049	49,049	49,049	49,049	49,049	-
Ave. Total Flow (GPD)		3,693,836	3,773,723	3,876,773	4,011,323	4,139,573	4,206,398	512,562
3-Month Max (GPD)		4,074,584	4,162,705	4,276,377	4,424,796	4,566,266	4,639,979	565,395
Peak Factor		1.103	1.103	1.103	1.103	1.103	1.103	

PROJECTED TOTAL PER CMP, REVISED March 2023 - BASED ON 5 YEAR ADJUSTED AVERAGES								
Ave. Total Flow (GPD)		3,739,138	3,819,025	3,922,075	4,056,625	4,184,875	4,251,700	512,562
3-Month Max (GPD)		4,284,470	4,376,008	4,494,087	4,648,260	4,795,215	4,871,786	587,316
Peak Factor		1.146	1.146	1.146	1.146	1.146	1.146	

Contract and Planning Allocations For WWTF Expansion		
	Allocation	Contracted Capacity
City of Coatesville	2,271,413	
Valley Township	1,540,000	
Caln Township		800,000
West Brandywine Township		533,100
Sadsbury Township	410,750	
West Sadsbury Township	380,399	
East Fallowfield Township	269,107	
Borough of Parkesburg	654,921	
West Caln Township	508,225	
Veterans Hospital	96,078	
Highland Township	48,375	
Totals:	6,179,268	1,333,100
		7,512,368

**TABLE 3
SUMMARY OF CONNECTIONS**

SOURCE	2018		2019		2020		2021		2022		5 Year Totals	
	New Flow	Equiv. EDU's	New Flow	Equiv. EDU's	New Flow	Equiv. EDU's	New Flow	Equiv. EDU's	New Flow	Equiv. EDU's	New Flow	Equiv. EDU's
Bulk Customers												
Caln Twp.	7,650	34	0	0	225	1	3,375	15	11,925	53	23,175	103
W. Brandywine Twp.	0	0	0	0	7,200	32	16,650	74	18,000	80	41,850	186
Subtotal	7,650	34	0	0	7,425	33	20,025	89	29,925	133	65,025	289
Billed Customers ⁽¹⁾	9,450	42	0	0	24,750	110	33,975	151	31,275	139	99,450	442
Veteran's Hospital	(10,719)	(48)	49,221	219	0	0	0	0	0	0	38,502	171
TOTAL	6,381	28	49,221	219	32,175	143	54,000	240	61,200	272	202,977	902

⁽¹⁾ Net EDU addition for City of Coatesville, East Fallowfield Twp., Parkesburg Boro, West Sadsbury, West Caln, Valley Twp, Sadsbury Twp, & Bulk Haulers

Note: One EDU = 225 GPD

Base Flow Determination

	2018	2019	2020	2021	2022	5-YR Adjusted Average
Actual Annual Average	4.299	3.343	3.775	3.294	3.694	
Flow Adjustments 2018		0.006	0.006	0.006	0.006	
Flow Adjustments 2019			0.049	0.049	0.049	
Flow Adjustments 2020				0.032	0.032	
Flow Adjustments 2021					0.054	
Flow Adjustments 2022						
Total Adjustment	0.026	0.148	0.064	0.054	0.000	
Equivalent Flow	4.324	3.491	3.839	3.348	3.694	3.739

CONNECTION MANAGEMENT PLAN - REPORTING Data REVISED: March 2023
PROJECTED NEW CONNECTIONS

Attachment A-7

LINE	DEP Code No.	NAME	TOTAL EQ. EDU's	EDUS EQ. ACTIVE	EDUS REMAINING	REMAINING	PLANNING (b) MODULE	EETL &WETL MH	START	BUILD OUT	TYPE	PROJECTED NEW CONNECTIONS (c)					TOTAL IN 5 YEARS	TOTAL BEYOND 2027
												2023	2024	2025	2026	2027		
City of Coatesville																		
1	1-15001-036-3U	Cambria Terrace	69	69	-	-	Y (TOC)	16	2004	2006	R							
2		Brandywine View	638	-	638	143,550	Y (TOC)	23			R		20	20	25	25	90	
3		Marriott Resturant	31	-	31	6,975		578			R						31	
4		Chetty Towers 1 - Residential	60	-	60	13,500		23			C						60	
5		Chetty Towers 1 - Commercial	10	-	10	2,250		23			C						10	
6		Chetty Towers 2 - Residential	150	-	150	33,750		16			R				60	60	120	
7		Chetty Towers 2 - Commercial	25	-	25	5,625		16			C				20	5	25	
8		701 ELH - Residential	7	-	7	1,400	Y (TOC)	33			R				7		7	
9		731 ELH - Residential	9	-	9	1,800	Y (TOC)	33			R				9		9	
10		McCobb-Coatesville Condominium	8	-	8	-	Y (TOC)				R							
11		Flatts Tract	200	-	200	45,000					R/C	50	75	75			200	
12		Gateway Development (Lipkin Building)	38	-	38	8,550					R/C	38					38	
13		300 E. Lincoln Hwy	10	-	10	2,250					C		10				10	
14		Valley Road Apartments	9	-	9	2,025					R	9					9	
15		New Amtrak Station	8	-	8	1,800					C						8	
16		Habitat for Humanity: Coates Street	7	-	7	1,575					R				3		7	
17		Coatesville Misc (2 or less EDU's)	15	-	7	1,800					R	2	2	2	2		8	
18																		
19																		
20		Total EDU	1,294	84	1,210	271,850					EDU	101	109	104	228	90	632	
21		Total Flow	291,150	18,900	272,250						FLOW	22,725	24,525	23,400	51,300	20,250	142,200	
22		Valley Township (d)																
23	1-15961-306-4	Highlands Corp. Center Phase I, II, III	102	-	91	2,475	Y	16	2005	2007	C						11	
24	1-15956-125-3U	Valley Suburban (Storzius Commercial)	340	-	340	76,500	Y	578	2005	2008	R/C	30	6	40	5		190	
25	1-15956-128-3U	Valley Farm & Mt. Airy Road	81	-	56	5,625	Y	16	2005	2008	R				40	40		
26	1-15956-134-3U	Glencrest Road Residences (Oakcrest)	30	-	21	9	2,025	Y	16	2005	2008	R	2	2	2	3		
27	15956-188-X	Cleveland - Cliffs Building Expansion	2	-	2	450	Y	578	2006	-	C	2					9	
28	1-15956-149-X	Lawrence Professional Center	2	-	2	450	Y	578	2006	-	C		2				2	
29	1-15956-147-X	Hendry Lot	1	-	1		Y	578	2006	-	R						2	
30		Micronic USA	2	-	2	450		578	-	-	C	2					2	
31		Abdala Building Expansion	2	-	2	450		578	-	-	C	2					2	
32		119 Mount Carmel Road	1	-	1	225		578	-	-	R	1					1	
33		Rainbow Village Existing Residences	30	-	30	6,750		578	2006	-	R						30	
34		Bone Tract (Valley View Business Park)	14	-	14	3,150	Y	578	-	-	C		7	7			14	
35		Airport Expansion	12	-	12	2,700		578	-	-	C			12			12	
36		Westwood Ridge	87	-	87	19,575		578	-	-	R		40	47			87	
37		170 Country Club Road	1	-	1			578	-	-	R						1	
38		140 Andrews Lane	1	-	1	225		578	-	-	R	1					1	
39		Green Trees (55 Glencrest Road)	80	-	80	18,000		578	-	-	R						80	
40																		
41		Total EDU	788	170	618	139,050					EDU	40	97	113	43	40	333	
42		Total Flow	177,300	38,250	139,050						FLOW	9,000	21,825	25,425	9,675	9,000	74,925	
43		Cain Township (d)																
44	1-15912-454-3M	Dogwood & Scott Drive Sewer Extension	69	-	46	23	5,175	Y	26		R	6					6	
45	1-15912-186-3J	The Villages at Hillview Subdivision	90	-	66	24	4,800	Y	45	2006	2011	R	24				24	
46	1-15912-427-X	Dunkin Donuts	4	-	4	800	Y	54			C	4					4	
47	1-15912-195-3J	Southwoods Subdivision	20	-	20	4,500	Y	45	2006	2009	R			10	10		20	
48		Toomey Estates (Blackhorse Hills Apartments)	75	-	75	16,875		54			C				75		75	
49		Cain Road	40	-	40	9,000		54			R						40	
50		Fox Ave Subdivision	12	-	11	2,475		54			R		6	5			11	
51		Cain Misc (Infill & OLDS Convers. To public)	236	-	1	235	52,875		54		R	2	17	17	17	17	70	
52																		
53		Total EDU	546	114	432	96,500					EDU	36	33	107	17	17	210	
54		Total Flow	122,850	25,650	97,200						FLOW	8,100	7,425	24,075	3,825	3,825	47,250	
55		West Brandywine Township (d) - LIMITED BASED ON ACT 537 APPROVALS																
56		Existing Unconnected EDUs	4	-	2	450		537	46		R	2					2	
57		Traditions of America	227	-	182	45	10,125	Y	46		R	45					45	
58		Culbertson Village Residential	178	-	178	40,050	537	46			R	10	42	42		42	178	
59		Janice/Cobblestone	34	-	34	7,650	PM	46			R						34	
60		Culbertson Village Commercial	33	-	33	7,425	537	46			C						33	
61		Traditions of America at Harvest Run	183	-	183	41,175		46			R		20	55	54	54	183	
62		Traditions of America No. 3	270	-	270	60,750		46			R						270	
63																		
64		Total EDU	929	184	745	167,625					EDU	57	62	97	96	96	408	
65		Total Flow	209,025	41,400	167,625						FLOW	12,825	13,950	21,825	21,600	21,600	91,800	
66		Highland Township - LIMITED BASED ON ACT 537 APPROVALS																
67		Woodview Acres	54	-	54	12,150		638			R	5	10	10	10		35	
68		Highland Misc (2 EDU's or less)	5	-	4	900		638	2005	2008	R	1	1	1	1		4	
69																		
70		Total EDU	59	1	58	13,050					EDU	6	11	11	11	-	39	
71		Total Flow	13,275	225	13,050						FLOW	1,350	2,475	2,475	2,475	-	8,775	
72		Borough of South Coatesville																
73		1300 Youngsbury Road	130	-	130	29,250		638			R						130	
74																		
75		Total EDU	130	-	130	29,250					EDU	-	-	-	-	-	130	
76		Total Flow	29,250	-	29,250						FLOW	-	-	-	-	-	29,250	
77		Sadsbury Township (d) - LIMITED BASED ON ACT 537 APPROVALS																
78		Rock Holdings (Lot 7B Independence Way)	9	-	9	-	Y	638	2004	2008	C						-	
79	1-15947-104-3J	Sadsbury Park	461	-	394	15,075	Y	638	2005	2025	R	42	20	5			67	
80		Lincoln Crest MHP (additional EDU's)	50	-	50	11,250		638	2005	2006	R	5	10	15			50	
81		Lafayette Square	125	-	123	2,450	Y	638	2005	2023	R	2					2	
82		Sadsbury Township Existing Residents	80	-	20	60	13,500	Y	638		R	4	4	4	4	4	20	
83		Sadsbury Commons	240	-	240	54,000		638			C	20	25	50	50	50	195	
84		Sadsbury Commons - Medical Office Building	3	-	3	675		638			C	3					3	
85		Sadsbury Commons Reserve	3	-	3	675		638			C							

98	1-15918-213-3J	Ridgecrest (Martin)	72	50	22	4,950	Y (TOC)	37	2005	2010	R	10	10									
99		Fieldstone Village	45	37	8	1,800	Y (TOC)	37			R	8										
100		Cardinal Drive Area	77	77	-	-	Y (TOC)	37			R											
101		Coatesville SD - Brandywine MS	75	-	75	16,875		37			C											
102		Scott Farm	75	-	75	16,875		37			R											
103		Etteleson Development	32	-	32	7,200		37			C											
104		Bonsall farm	20	-	20	4,500		37			C											
105		East Fallowfield Misc (2 EDU's or less)	13	8	5	1,125		38			R	1	1	1	1					4	1	
106																						
107		Total EDU	893	593	300	67,500						19	11	1	1					-	32	268
108		Total Flow	200,925	133,425	67,500							4,275	2,475	225	225					-	7,200	60,300
109		Parkeburg Borough																				
110	1-15807-037-3H	Parkeburg Knoll	171	169	2	450	Y (TOC)	638	2000	2003	R	2									2	-
111	1-15807-050-3J	Crystal Springs Expansion (Heritage)	129	-	129	29,025	Y (TOC)	638	2004	2009	R			5	10						15	114
112	1-15807-046-3H	Lindale Village	31	-	31	6,975	Y (TOC)	638	2004	2009	R		5	5	5						15	16
113		Davis Tract	324	-	324	72,900	Y (TOC)	638	2005	2009	R	5	10	10	10						35	289
114		MK Builders	3	1	2	450	Y (TOC)	638	2004	2004	R	2									2	-
115		Phillips Site	4	-	4	900	Y (TOC)	638	2004	2004	R	2	2								4	4
116		Parkeledge Apartments	32	-	32	6,400	Y (TOC)	638			R	5	5	5	5						20	12
117		Siti Crook - Maple Alley	2	-	2	400		638													-	2
118		Octorara Avenue	3	-	3	600		638													-	3
119		Parkeburg Misc (2 EDU's or less)	20	9	11	2,200		638				3	3	3	2						11	-
120																						
121		Total EDU	719	179	540	120,300						19	25	28	32					-	104	436
122		Total Flow	161,775	40,275	121,500							4,275	5,625	6,300	7,200					-	23,400	98,100
123		West Cain Township - LIMITED BASED ON ACT 537 APPROVALS																				
124	1-15961-554-3Hrev	Cainshire West	124	101	23	5,175	Y (TOC)	638	2003	2005	R	4	6	6	7						23	-
125	1-15961-554-3Hrev	Sandy Hill	87	87	-	-	Y (TOC)	638	2003	2006	R										-	-
126		Sands Property	309	-	309	69,525		638			R		4	4	3						11	298
127		Lawrence Development	72	-	72	16,200		638			R		4	4	4						12	60
128		Lepp Tract	3	-	3	675		638			R	1	1	1							3	-
129		Arron King	1	1	-	-	Y	638			R										-	-
130		Aaron Glick	2	1	1	225	Y	638			R	1	1								1	-
131		West Cain Misc (2 EDU's or less)	5	1	4	900		638				1	1	1	1						4	-
132																						
133		Total EDU	603	191	412	92,700						7	16	16	15					-	54	358
134		Total Flow	135,675	42,975	92,700							1,575	3,600	3,600	3,375					-	12,150	80,550
135		West Sadsbury Township																				
136		Lower Valley Road Partners, LP (Victory)	311	232	79	17,775.0	Y	638	2006	2006	I			20	20						40	39
137		Mast Property	600	-	600	135,000.0		638			R/C		10	10	20						40	560
138		King Swings (4000 Valley Road)	4	4	-	-	Y	638			C										-	-
139		JD Echman (4781 Lower Valley Road)	96	35	61	13,725.0	Y	638			C	18	20	11	12						61	-
140		Upper Valley Road - Daycare/Apartment	6	6	-	-	Y	638			C										-	-
141		Spinger Development	20	-	20	4,500.0		638			C										-	20
142		Autozone	2	-	2	450.0		638			C										-	2
143		West Sadsbury Misc (2 EDU's or less)	6	2	4	900.0		638				1	1	1	1						4	-
144																						
145		Total EDU	1,045	279	766	172,350						19	31	42	53					-	145	621
146		Total Flow	235,125	62,775	172,350							4,275	6,975	9,450	11,925					-	32,625	139,725
147																						
148																						
149																						
150																						
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159																						
160																						
161																						
162																						
163																						

EDU = 225.0

- 155 (a) Status Legend: 0=Completed, 1=Under Construction, 2=Under Agreement,
- 156 3=Under PAWC Plan Review, 4=Initial Planning, 5=Speculative
- 157 (b) Signed by PAWC, does not indicate approval by DEP
- 158 (c) * indicates project completion. Other developments are projected to extend beyond 5 years.
- 159 (d) Municipal agreements will be governed the CMP.

- 160
- 161 *P* - Indicates PAWC has not signed planning modules and is requesting approval by DEP to move the projects from Table A3 to A2, and upon approval PAWC will then sign the planning modules.
- 162 Apartments= 200
- 163 Senior Housing= 200

Summary #1	PROJECTED EDUS		REMAINING EDUS		TOTAL IN 5 YEARS	TOTAL BEYOND 2027
	TOTAL	ACTIVE	TOTAL	FLOW		
	8,111	2,341	5,770	1,295,950	1,020	3,373
	1,824,975	526,725	1,298,250		229,500	758,925
TOTAL PROJECTED WWTP FLOW	3,036,436	3,090,436	3,138,586	3,184,711	3,240,961	4,024,861

#2	PROJECTED EDU'S WITH PM SIGNED BY PAW AND PENDING PROJECTS						
	TOTAL EDU'S	TOTAL FLOW	474	458	598	570	297
	106,650	103,050	134,550	128,250	66,825	539,325	729,675
TOTAL PROJECTED WWTP FLOW	3,336,340	3,442,990	3,546,040	3,680,590	3,808,840	3,875,665	3,875,665
	prj 3-month max	3,787,289	3,900,644	4,048,649	4,189,724	4,263,232	

CONNECTION MANAGEMENT PLAN - REPORTING Data REVISED: March 2022

TABLE B1

EETL Allocation until Expansion is Complete from MH EE 015 to MH EE 018⁽⁴⁾

Township	Development	Total Connections (1)	Connections Allowed (2)	2011 and Beyond Connections Made (3)	Connections Remaining (3)
City of Coatesville					
	701 ELH - Residential	7		0	7
	731 ELH - Residential	9		0	9
	Coatesville Misc (2 or less EDU's)	15		7	8
Caln Township					
	Hillview (aka Hill Farm)	90		14	76
	Southwoods (Weiss)	20		0	20
	Hills of Thorndale Woods(Southdown/Duca)	262		0	0
	RG Carwash	7		7	0
	Toomey Estates (elio Colavito)	75		0	0
	Caln Road	40		0	0
	Dogwood & Scott Drive Sewer Extension	69		45	4
	Caln Plaza Shopping Center	4		4	0
	Flow Diversion Municipal Pump Station	981		0	510
	Coatesville VoTech	4		0	4
	Caln Misc (Infill & OLDS Convers. To public)	236		1	70
West Brandywine Township					
	Existing Unconnected EDU's	4		0	4
	Janice/Cobblestone	34		0	0
	Culbertson Village Commercial	33		0	0
	Culbertson Village Residential/Cross Creek	178		0	178
	Traditions of America	227		104	123
	Traditions of America at Harvest Run	181		0	181
	TOA #3 Beechwood/Overlook	270		0	0
	Hunters Crossing	14		0	0
East Fallowfield Township					
	Harkins Farm	0		0	0
	Stone Creek (Robins Cove)	53		4	0
	North Woods (Thompson North)	27		5	0
	Mendenhall Tract	74		0	0
	Providence Hill (Chen Tract)	218		0	0
	Manchester Farms (Thompson South)	112		3	0
	Ridgecrest (Martin)	72		42	30
	Fieldstone Village	45		32	13
	Cardinal Drive Area	77		1	1
	Coatesville SD - Brandywine MS	75		0	0
	Scott Farm	75		0	0
	Etteleson Development	32		0	0
	Bonsall farm	20		0	0
	East Fallowfield Misc (2 EDU's or less)	13		8	5
Borough of South Coatesville					
	1140 & 1138 West Chester Road	2		0	2
	Subtotal		1256	277	1245

NOTE

- (1) - Total projected new connections upstream of critical section.
- (2) - Connection allowed prior to completion of EETL replacement of Manhole EE 015 to Manhole EE 018
- (3) - Connections made since January 2011 and remaining in next 5 years, from 2012 Chapter 94 Report.
- (4) - This table is not a commitment of capacity by PAWC, but rather a summary of each municipalities projections in the Chapter 94 Report. These tables will be updated every 6 months based upon changes to the projections and actual connections.

Table 4
PAWC Pump Stations - 2022 Chapter 94 Report

Pump Station Name	Number of Pumps	Permitted Capacities		Present Flows			Projected Flows			
		AA Permitted Capacity (GPD)	Hydraulic Design Capacity (GPM)	Annual Average Flows (GPD)	Peak Daily Flow (GPD)	Peak Hourly Flow (GPM)	Peaking Factor	2-Year Additional Flow (GPD)	2-Year AA Flow (GPD)	2-Year Projected Maximum Flow (GPD)
Branford Village Lift Station #1	2	149,000	311	40,828	179,121	124	4.39	0	40,828	179,121
Branford Village Lift Station #2	2	65,000	71	17,453	22,922	16	1.31	0	17,453	22,922
Brinton Station Lift Station #1	2	22,000	62	4,851	7,328	5	1.51	0	4,851	7,328
Brinton Station Lift Station #2	2	3,000	9	Combined with #1				0	0	0
Derry Lane Pump Station (Fieldstone)	2	19,425	57	8,410	18,442	13	2.19	1,575	9,985	21,896
Millview Lift Station	2		178	19,860	30,948	21	1.56	0	19,860	30,948
Northwoods Lift Station	2	7,100	21	4,287	6,605	5	1.54	0	4,287	6,605
Parkeburg Lift Station	4	1,451,826	3,825	304,812	400,866	278	1.32	54,225	359,037	472,179
Providence Hill Lift Station	2	51,450	250	29,429	42,089	29	1.43	0	29,429	42,089
Robins Cove #1 Lift Station	2		55	Combined with #2				0	0	0
Robins Cove #2 Lift Station	2	163,418	550	94,094	132,074	92	1.40	0	94,094	132,074
Sandy Hill Lift Station	2	100,000	276	23,052	74,767	52	3.24	4,725	27,777	90,092
Strasburg Hunt Lift Station #1	2		43	Combined with #2				0	0	0
Strasburg Hunt Lift Station #2 ¹	2		52	13,524	51,391	36	3.80	0	13,524	51,391
West Sadsbury Lift Station	2	100,000	174	1,186	6,820	5	5.75	0	1,186	6,820
West Sadsbury Commons Lift Station	2	40,000	150	32,109	43,488	30	1.35	0	32,109	43,488
West Sadsbury Lower Valley Road (Victory)	2	214,560	149	78,380	130,648	91	1.67	2,475	80,855	134,773
Sadsbury Pump Station	2	1,008,000	700	239,382	479,861	333	2.00	0	239,382	479,861
Highlands Corp Center P.S. #1 ^{1,2}	2	52,871	150	6,611	27,765	19	4.20	0	6,611	27,765
Country Ridge P.S. ^{1,3}	2	15,300	85	8,625	36,226	25	4.20	0	8,625	36,226
Hillview P.S. ¹	2	61,200	220	24,467	95,423	66	3.90	0	24,467	95,423
Rock Run P.S. ¹	2	384,000	800	359,873	1,079,620	750	3.00	900	360,773	1,082,320
Valley View Business Park P.S. ¹	2	4,240	33	2,864	12,029	8	4.20	3,150	6,014	25,259
Round Hill P.S. #1 ¹	2	48,600	160	1,816	7,265	5	4.00	0	1,816	7,265
Round Hill P.S. #2 ¹	2	11,700	40	5,564	23,367	16	4.20	0	5,564	23,367

(1) - Peak Hourly Flow data was not provided. Peak Daily Flow calculated using peaking factor based on PADEP Sewage Pumping Station Guidance

(2) - Flow data only available for September 2022 through December 2022.

(3) - Flow data only available for October 2022 through December 2022.

C. 2022 Municipal Flows Table

PAWC Municipal Flows 2022

Attachment A-7

Line #		2022 ADF GPD	Current MDF GPD	Current MDF Peaking Factor	Current PHF GPD	Current PHF Peaking Factor
1	Total Metered Plant Flow		4/8/2022			
2		GPD	3,693,836		6,501,420	1.76
3	Rainfall Total (in.)	46				
4	Highland Township					
5	Borough Line Rd.	681	1,021	1.50	1,701	2.50
6	Total					
7	GPD	681	1,021	1.50	1,701	2.50
8	Caln Township	0				
9	Caln Pump Station	66,701	100,051	1.50	200,103	3.00
10	Carver Court	16,080	24,120	1.50	40,201	2.50
11	Megargee Heights	18,252	27,378	1.50	45,630	2.50
12	Brandywine Fab & Keehn	2,655	3,983	1.50	6,638	2.50
13	Dogwood Ln-Scott Dr	12,016	18,024	1.50	30,040	2.50
14	Total					
15	GPD	115,704	173,556	1.50	322,611	2.79
16	Valley Township					
17	Rock Run Pump Station	359,873	339,973	0.94	590,141	1.64
18	Valley Road	240,515	443,060	1.84	721,978	3.00
19	Charles Street	335,855	561,061	1.67	576,326	1.72
20	Gap Rd.	1,452	2,904	2.00	4,355	3.00
21	Coatesville Country Club (line 36)	(2,279)	(4,558)	2.00	(6,837)	3.00
22	Mt. Carmel/Strasburg Hunt (line 41)	(13,524)	(27,048)	2.00	(40,572)	3.00
23	Marriot (line 79)	(6,903)	(12,774)	1.85	(20,710)	3.00
24	Total					
25	GPD	914,989	1,302,617	1.42	1,824,681	1.99
26	Parkesburg Borough					
27	Pump Station	300,473	400,866	1.33	594,840	1.98
28	Victory Brewery (line 53)	(78,380)	(130,648)	1.67	(218,100)	2.78
29	World Color (Qcor) (line 54)	(1,186)	(6,820)	5.75	(31,534)	26.58
30	West Sadsbury Commons (line 55)	(32,109)	(43,488)	1.35	(66,079)	2.06
31	Borough Line Rd. (line 5)	(681)	(1,021)	1.50	(1,701)	2.50
32	Sadsbury Crossing	(2,141)	(4,282)	2.00	(6,422)	3.00
33	Total					
34	GPD	185,975	214,607	1.15	271,003	1.46
35	West Caln Township					
36	Coatesville Country Club	2,279	4,558	2.00	6,837	3.00
37	Sandy Hill	23,052	74,767	3.24	120,454	5.23
38	Total					
39	GPD	25,331	79,325	3.13	127,291	5.03
40	East Fallowfield Township					
41	Mt. Carmel/Strasburg Hunt	13,524	27,048	2.00	40,572	3.00
42	Brinton Station	4,851	7,328	1.51	13,133	2.71
43	Branford Village PS #1 - Main	40,828	179,121	4.39	365,371	8.95
44	Branford Village PS #2	17,453	22,922	1.31	35,578	2.04
45	Hidden Valley Mobile Home Park	6,706	10,555	1.57	20,117	3.00
46	Stone Creek	94,094	132,074	1.40	229,963	2.44
47	Providence Hill	31,020	42,089	1.36	64,697	2.09
48	Northwoods	4,287	6,605	1.54	14,563	3.40
49	Derry Ln.	8,410	18,442	2.19	44,018	5.23
50	Total					
51	GPD	153,298	345,571	2.25	649,039	4.23
52	West Sadsbury Township					
53	Victory Brewery	78,380	130,648	1.67	218,100	2.78
54	World Color (Qcor)	1,186	6,820	5.75	31,534	26.58
55	West Sadsbury Commons	32,109	43,488	1.35	66,079	2.06
56	Total					
57	GPD	111,676	180,956	1.62	315,713	2.83
58	West Brandywine Township					
59	Pump Station (Station 46)	172,985	291,200	1.68	384,000	2.22
60	Total					
61	GPD	172,985	291,200	1.68	384,000	2.22
62	Sadsbury Township					
63	Pump Station (SADSTWP)	239,382	479,861	2.00	743,054	3.10
64	Sadsbury Crossing/Valley Rd.	3,940	4,900	1.24	11,819	3.00
65	Sandy Hill (line 37)	(23,052)	(74,767)	3.24	(120,454)	5.23
66	Total					
67	GPD	220,270	409,994	1.86	634,420	2.88
68	Veterans Hospital					
69	11th & Diamond	250,196	408,676	1.63	587,000	2.35
70	West Brandywine PS (line 59)	(172,985)	(291,200)	1.68	(384,000)	2.22
71	Total					
72	GPD	77,211	117,476	1.52	203,000	2.63
73	Bulk Delivery					
74	Haulers to Plant	49,049	49,049	1.00	49,049	1.00
75	Total					
76	GPD	49,049	49,049	1.00	49,049	1.00
77	City of Coatesville					
78	Millview	19,860	30,948	1.56	169,630	8.54
79	Marriot	6,903	12,774	1.85	20,710	3.00
80	Total Metered Plant Flow	3,693,836	6,501,420	1.76	0	0.00
81	Total Contributing	2,053,933	3,209,095	1.56	4,972,848	2.42
82	Total					
83	GPD	1,639,904	3,292,325	2.01	(4,972,848)	(3.03)

Footnotes (Line #)
 17 - Flow data only available for September 2022
 27 - Flow data only available for June 2022
 47 - Flow data only available for September to December 2022
 69 - Issues with flow meter connection in November and December 2022
 79 - Telogger not responding. Estimated Peak Hourly Flow used.

D. Flowmeter Calibration Reports

TheMeterGuy, LLC.

5758 GLEN OAKS DRIVE NARVON, PA 17555
PHONE: (717) 940-1987

SERVICE REPORT

RICH LUTZ
PENNSYLVANIA AMERICAN WATER
100 CHESHIRE COURT
COATESVILLE, PA 19320

SERVICE DATE: 4/22/2022
METER#: C8317 AW
LOCATION: INFLUENT
SERIAL #: 43325743
MANUFACTURER: VEGA
RECORDER: SCADA
TRANSMITTER: VEGAPULSE WL 61
PRIMARY: 3' PARSHALL FLUME
MAXIMUM CAPACITY: 23 MGD
SERVICE CONTRACT: ANNUAL

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** N/A
ERROR: N/A **CORRECTED ACCURACY:** N/A

TOTALIZER CALIBRATION **CHECKED AT:** 0, 50 & 100%
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TRANSMITTER CALIBRATION
ZEROED FLOW AND FLOW MEASUREMENTS
ERROR: 0% **CORRECTED ACCURACY:** ± 1%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DAVE MOORE **PERSON SEEN:** RICH LUTZ
copies- em: Rich Lutz

TheMeterGuy, LLC.

5758 GLEN OAKS DRIVE NARVON, PA 17555
PHONE: (717) 940-1987

*****SERVICE REPORT*****

JIM KELLY
PENNSYLVANIA AMERICAN WATER
100 CHESHIRE COURT
COATESVILLE, PA 19320

SERVICE DATE: 6/8/2022
METER#: C8317 AZ
LOCATION: NORTHWOOD PS - E. Fallowfield
SERIAL #: 8603CE16000
MANUFACTURER: ENDRESS HAUSER/CHESELL
RECORDER: 392
TRANSMITTER:
PRIMARY: 3" STEEL PIPE
MAXIMUM CAPACITY: 100 GPM
SERVICE CONTRACT: SEMI-ANNUAL

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** 25, 50, 75 & 100%
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TOTALIZER CALIBRATION **CHECKED AT:** OPERATING RATE
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TRANSMITTER CALIBRATION
VOLUMETRIC DRAWDOWN
ERROR: 0% **CORRECTED ACCURACY:** ±1%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: BRANDON HOOPER **PERSON SEEN:**
copies-

TheMeterGuy, LLC.

5758 GLEN OAKS DRIVE NARVON, PA 17555
PHONE: (717) 940-1987

*****SERVICE REPORT*****

JIM KELLY
PENNSYLVANIA AMERICAN WATER
100 CHESHIRE COURT
COATESVILLE, PA 19320

SERVICE DATE: 6/8/2022
METER#: C8317 AX
LOCATION: DERRY LANE - *E. Fallowfield*
SERIAL #: 005315V176/UR36602-00201
MANUFACTURER: SIEMENS/CHESELL
RECORDER: 392
TRANSMITTER: SITRANS FM5000
PRIMARY: 4" MAG
MAXIMUM CAPACITY: 200 GPM
SERVICE CONTRACT: SEMI-ANNUAL

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** 0, 25, 50, & 100%
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TOTALIZER CALIBRATION **CHECKED AT:** OPERATING RATE
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TRANSMITTER CALIBRATION
VOLUMETRIC DRAWDOWN
ERROR: 0% **CORRECTED ACCURACY:** ± 5%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: BRANDON HOOPER **PERSON SEEN:**
copies-

TheMeterGuy, LLC.

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PHONE: (717) 940-1987

*****SERVICE REPORT*****

JIM KELLY
PENNSYLVANIA AMERICAN WATER
100 CHESHIRE COURT
COATESVILLE, PA 19320

SERVICE DATE: 6/8/2022
METER#: C8317 AL
LOCATION: PROVIDENCE HILL P.S. - *E. Fallowfield*
SERIAL #: 7403BB16000/UR32827-001
MANUFACTURER: E & H/ CHESSELL
RECORDER: 392
TRANSMITTER: PROMAG 50
PRIMARY: 4" MAG
MAXIMUM CAPACITY: 500 GPM
SERVICE CONTRACT: SEMI-ANNUAL

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** 0, 25, 50, 75 & 100%
ERROR: 0% **CORRECTED ACCURACY:** ± 1%

TOTALIZER CALIBRATION **CHECKED AT:** OPERATING RATE
ERROR: 0% **CORRECTED ACCURACY:** ± 1%

TRANSMITTER CALIBRATION
VOLUMETRIC DRAWDOWN
ERROR: 0% **CORRECTED ACCURACY:** ± 1%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: BRANDON HOOPER **PERSON SEEN:**
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PHONE: (717) 940-1987

*****SERVICE REPORT*****

JIM KELLY
PENNSYLVANIA AMERICAN WATER
100 CHESHIRE COURT
COATESVILLE, PA 19320

SERVICE DATE: 6/8/2022
METER#: C8317 AH
LOCATION: PARKESBURG P.S.
SERIAL #: JC014D16000/PLZ005003832
MANUFACTURER: ENDRESS HAUSER/EUROTHERM
RECORDER: 6180
TRANSMITTER: PROMAG 50
PRIMARY: 10"
MAXIMUM CAPACITY: 7500 GPM
SERVICE CONTRACT: SEMI-ANNUAL

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** 0 & OPERATING RATE.
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TOTALIZER CALIBRATION **CHECKED AT:** OPERATING RATE
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TRANSMITTER CALIBRATION
VOLUMETRIC CALIBRATION
ERROR: 0% **CORRECTED ACCURACY:** ±2%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DAVID MOORE **PERSON SEEN:**
copies-

TheMeterGuy, LLC.

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PHONE: (717) 940-1987

*****SERVICE REPORT*****

JIM KELLY
PENNSYLVANIA AMERICAN WATER
100 CHESHIRE COURT
COATESVILLE, PA 19320

SERVICE DATE: 6/8/2022
METER#: C8317 AG
LOCATION: BRANFORD PS #1 - *E. Fallowfield*
SERIAL #: 1277/D246620010101
MANUFACTURER: SPARLING/CHESEL
RECORDER: 392
TRANSMITTER: BE6300
PRIMARY: 4"
MAXIMUM CAPACITY: 1200 GPM
SERVICE CONTRACT: SEMI-ANNUAL

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** 0, 25, 50, & 100%
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TOTALIZER CALIBRATION **CHECKED AT:** OPERATING RATE
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TRANSMITTER CALIBRATION
VOLUMETRIC CALIBRATION
ERROR: 0% **CORRECTED ACCURACY:** ±2%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: BRANDON HOOPER **PERSON SEEN:** HAVE KEY
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PHONE: (717) 940-1987

*****SERVICE REPORT*****

JIM KELLY
PENNSYLVANIA AMERICAN WATER
100 CHESHIRE COURT
COATESVILLE, PA 19320

SERVICE DATE: 6/8/2022
METER#: C8317 AF
LOCATION: BRANFORD PS #2 - *E. Fallowfield*
SERIAL #: UR20672/ M102801606
MANUFACTURER: SPARLING/CHESEL
RECORDER: 392
TRANSMITTER: TIGER MAG
PRIMARY: 4" MAG
MAXIMUM CAPACITY: 500 GPM
SERVICE CONTRACT: SEMI-ANNUAL

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** 0, 25, 50, & 100%
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TOTALIZER CALIBRATION **CHECKED AT:** OPERATING RATE
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TRANSMITTER CALIBRATION
VOLUMETRIC CALIBRATION
ERROR: 0% **CORRECTED ACCURACY:** ±2%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: BRANDON HOOPER **PERSON SEEN:** HAVE KEY
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PHONE: (717) 940-1987

*****SERVICE REPORT*****

JIM KELLY
PENNSYLVANIA AMERICAN WATER
100 CHESHIRE COURT
COATESVILLE, PA 19320

SERVICE DATE: 6/8/2022
METER#: C8317 AD
LOCATION: WEST SADSBUURY COMMONS - *Nest Sadsbury Twp.*
SERIAL #: UM20010462/0140Y152426
MANUFACTURER: ULTRA MAG/HONEYWELL
RECORDER: DR 4800
TRANSMITTER: UM0603
PRIMARY: 4" MAG
MAXIMUM CAPACITY: 250 GPM
SERVICE CONTRACT: SEMI-ANNUAL

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** 0, 50, & 100%
ERROR: 0% **CORRECTED ACCURACY:** ± 1%

TOTALIZER CALIBRATION **CHECKED AT:** OPERATING RATE
ERROR: 0% **CORRECTED ACCURACY:** ± 1%

TRANSMITTER CALIBRATION
VOLUMETRIC CALIBRATION
ERROR: 0% **CORRECTED ACCURACY:** ±2%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: BRANDON HOOPER **PERSON SEEN:** HAVE KEY
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PHONE: (717) 940-1987

*****SERVICE REPORT*****

JIM KELLY
PENNSYLVANIA AMERICAN WATER
100 CHESHIRE COURT
COATESVILLE, PA 19320

SERVICE DATE: 6/8/2022
METER#: C8317 AC
LOCATION: MILLVIEW PS - *Coatesville*
SERIAL #: M054225102/UR24631-001
MANUFACTURER: SPARLING/CHESEL
RECORDER: 392
TRANSMITTER: TIGER MAG FM626
PRIMARY: 3" MAG
MAXIMUM CAPACITY: 400 GPM
SERVICE CONTRACT: SEMI-ANNUAL

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** 0, 25, 50, 75, & 100%
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TOTALIZER CALIBRATION **CHECKED AT:** OPERATING RATE
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TRANSMITTER CALIBRATION
VOLUMETRIC CALIBRATION
ERROR: 0% **CORRECTED ACCURACY:** ±2%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DAVID MOORE **PERSON SEEN:**
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TheMeterGuy, LLC.

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PHONE: (717) 940-1987

*****SERVICE REPORT*****

JIM KELLY
PENNSYLVANIA AMERICAN WATER
100 CHESHIRE COURT
COATESVILLE, PA 19320

SERVICE DATE: 6/8/2022
METER#: C8317 AB
LOCATION: STONE CREEK #1 - *R. Cove E. Fallowfield*
SERIAL #: 65032316000/UR29786-003
MANUFACTURER: E & H / CHESSEL
RECORDER: 392
TRANSMITTER: 50W1F
PRIMARY: 6" MAG
MAXIMUM CAPACITY: 1000 GPM
SERVICE CONTRACT: SEMI-ANNUAL

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** 0, 25, 50, 75, & 100%
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TOTALIZER CALIBRATION **CHECKED AT:** OPERATING RATE
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TRANSMITTER CALIBRATION
VOLUMETRIC CALIBRATION
ERROR: 0% **CORRECTED ACCURACY:** ±2%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: BRANDON HOOPER **PERSON SEEN:** HAVE KEY
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PHONE: (717) 940-1987

*****SERVICE REPORT*****

JIM KELLY
PENNSYLVANIA AMERICAN WATER
100 CHESHIRE COURT
COATESVILLE, PA 19320

SERVICE DATE: 6/8/2022
METER#: C8317 AA
LOCATION: BRINTON STATION #1 - *E. Fullanfield*
SERIAL #: M032911101/D22024-001-01-01
MANUFACTURER: SPARLING/CHESEL
RECORDER: 392
TRANSMITTER: TIGER MAG
PRIMARY: 2" MAG
MAXIMUM CAPACITY: 200 GPM
SERVICE CONTRACT: SEMI-ANNUAL

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** 0, 25, 50, 75, & 100%
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TOTALIZER CALIBRATION **CHECKED AT:** OPERATING RATE
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TRANSMITTER CALIBRATION
VOLUMETRIC CALIBRATION
ERROR: 0% **CORRECTED ACCURACY:** ±2%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: BRANDON HOOPER **PERSON SEEN:** HAVE KEY
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PHONE: (717) 940-1987

*****SERVICE REPORT*****

JIM KELLY
PENNSYLVANIA AMERICAN WATER
100 CHESHIRE COURT
COATESVILLE, PA 19320

SERVICE DATE: 9/8/2022
METER#: C8317 BF
LOCATION: MUNICIPAL PUMP STATION - *Calu Twp.*
SERIAL #: PB071E16000
MANUFACTURER: ENDRESS HAUSER
RECORDER: N/A
TRANSMITTER: PROMAG 400
PRIMARY: 12"
MAXIMUM CAPACITY: 1500 GPM
SERVICE CONTRACT: QUARTERLY

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** N/A
ERROR: N/A **CORRECTED ACCURACY:** N/A

TOTALIZER CALIBRATION **CHECKED AT:** OPERATING RATE
ERROR: 0% **CORRECTED ACCURACY:** ±2%

TRANSMITTER CALIBRATION
VOLUMETRIC CALIBRATION
ERROR: 0% **CORRECTED ACCURACY:** ±2%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: E FARR & B HOOPER **PERSON SEEN:**
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5758 GLEN OAKS DRIVE NARVON, PA 17555
PHONE: (717) 940-1987

*****SERVICE REPORT*****

JIM KELLY
PENNSYLVANIA AMERICAN WATER
100 CHESHIRE COURT
COATESVILLE, PA 19320

SERVICE DATE: 9/12/2022
METER#: C8317 AY
LOCATION: VICTORY BREWING - *N. Sadsbuney Twp.*
SERIAL #: H5000916000
MANUFACTURER: ENDRESS HAUSER
RECORDER: N/A
TRANSMITTER: PROMAG W
PRIMARY: 4" MAG
MAXIMUM CAPACITY: 500 GPM
SERVICE CONTRACT: QUARTERLY

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** N/A
ERROR: N/A **CORRECTED ACCURACY:** N/A

TOTALIZER CALIBRATION **CHECKED AT:** OPERATING RATE
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TRANSMITTER CALIBRATION
VOLUMETRIC DRAWDOWN
ERROR: 0% **CORRECTED ACCURACY:** ± 5%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: BRANDON HOOPER **PERSON SEEN:**
copies-

TheMeterGuy, LLC.

5758 GLEN OAKS DRIVE NARVON, PA 17555
PHONE: (717) 940-1987

*****SERVICE REPORT*****

JIM KELLY
PENNSYLVANIA AMERICAN WATER
100 CHESHIRE COURT
COATESVILLE, PA 19320

SERVICE DATE: 9/1/2022
METER#: C8317 AT
LOCATION: MT CARMEL ROAD - *Staatsburg Hunt E. Fallowfield*
SERIAL #: 142241
MANUFACTURER: EASTECH
RECORDER: NA
TRANSMITTER: 2210
PRIMARY: 8" MANHOLE FLUME
MAXIMUM CAPACITY: 200 GPM
SERVICE CONTRACT: QUARTERLY

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** N/A
ERROR: N/A **CORRECTED ACCURACY:** N/A

TOTALIZER CALIBRATION **CHECKED AT:** 0, 25, 50 & 100%
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TRANSMITTER CALIBRATION
FLOW MEASUREMENTS
ERROR: 0% **CORRECTED ACCURACY:** ± 1%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DMOORE & BHOOPER **PERSON SEEN:**
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TheMeterGuy, LLC.

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PHONE: (717) 940-1987

*****SERVICE REPORT*****

JIM KELLY
PENNSYLVANIA AMERICAN WATER
100 CHESHIRE COURT
COATESVILLE, PA 19320

SERVICE DATE: 9/12/2022
METER#: C8317 AS
LOCATION: MARRIOTT - Coatesville
SERIAL #: E800CC16000
MANUFACTURER: ENDRESS HAUSER
RECORDER: NA
TRANSMITTER: PROMAG W
PRIMARY: 2" MAG
MAXIMUM CAPACITY: 300 GPM
SERVICE CONTRACT: QUARTERLY

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** N/A
ERROR: N/A **CORRECTED ACCURACY:** N/A

TOTALIZER CALIBRATION **CHECKED AT:** OPERATING RATE
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TRANSMITTER CALIBRATION
VOLUMETRIC DRAWDOWN
ERROR: 0% **CORRECTED ACCURACY:** ± 5%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: BRANDON HOOPER **PERSON SEEN:**
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TheMeterGuy, LLC.

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PHONE: (717) 940-1987

*****SERVICE REPORT*****

JIM KELLY
PENNSYLVANIA AMERICAN WATER
100 CHESHIRE COURT
COATESVILLE, PA 19320

SERVICE DATE: 9/12/2022
METER#: C8317 AM
LOCATION: QUEBECOR P.S. *N. Sadsbury Twp.*
SERIAL #: M078792404
MANUFACTURER: SPARLING
RECORDER: N/A
TRANSMITTER: TIGER MAG
PRIMARY: 3" MAG
MAXIMUM CAPACITY: 300 GPM
SERVICE CONTRACT: QUARTERLY

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** N/A
ERROR: N/A **CORRECTED ACCURACY:** N/A

TOTALIZER CALIBRATION **CHECKED AT:** OPERATING RATE
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TRANSMITTER CALIBRATION
VOLUMETRIC DRAWDOWN
ERROR: 0% **CORRECTED ACCURACY:** ±2%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: BRANDON HOOPER **PERSON SEEN:** HAVE KEY
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TheMeterGuy, LLC.

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PHONE: (717) 940-1987

*****SERVICE REPORT*****

JIM KELLY
PENNSYLVANIA AMERICAN WATER
100 CHESHIRE COURT
COATESVILLE, PA 19320

SERVICE DATE: 9/12/2022
METER#: C8317 AE
LOCATION: SANDYHILL PS - *W. Calv Twp.*
SERIAL #: M073281304/ UR3030-001
MANUFACTURER: SPARLING/CHELSEL
RECORDER: 392
TRANSMITTER: TIGERMAG FM626
PRIMARY: 4" MAG
MAXIMUM CAPACITY: 1182 GPM
SERVICE CONTRACT: QUARTERLY

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** 0, 25, 50, 75, & 100%
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TOTALIZER CALIBRATION **CHECKED AT:** OPERATING RATE
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TRANSMITTER CALIBRATION
VOLUMETRIC CALIBRATION
ERROR: 0% **CORRECTED ACCURACY:** ± 5%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DAVID MOORE **PERSON SEEN:**
copies-

TheMeterGuy, LLC.

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PHONE: (717) 940-1987

SERVICE REPORT

JIM KELLY
PENNSYLVANIA AMERICAN WATER
100 CHESHIRE COURT
COATESVILLE, PA 19320

SERVICE DATE: 9/1/2022
METER#: C8317 AJ
LOCATION: CARVER COURT - *Calw Twp.*
SERIAL #: 9648
MANUFACTURER: EASTECH/BADGER
RECORDER: N/A
TRANSMITTER: 2210
PRIMARY: 6" PALMER BOWLUS
MAXIMUM CAPACITY: 200 GPM
SERVICE CONTRACT: QUARTERLY

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** N/A
ERROR: N/A **CORRECTED ACCURACY:** N/A

TOTALIZER CALIBRATION **CHECKED AT:** 0, 25, 50 & 100%
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TRANSMITTER CALIBRATION
SIMULATED HEAD RISES AND FLOW MEASUREMENTS
ERROR: 0% **CORRECTED ACCURACY:** ±1%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DMOORE & BHOOPER **PERSON SEEN:**
copies- SCOT GILL

TheMeterGuy, LLC.

5758 GLEN OAKS DRIVE NARVON, PA 17555
PHONE: (717) 940-1987

*****SERVICE REPORT*****

JIM KELLY
PENNSYLVANIA AMERICAN WATER
100 CHESHIRE COURT
COATESVILLE, PA 19320

SERVICE DATE: 12/9/2022
METER#: C8317 BH
LOCATION: HIGHLAND - *Valley Twp.*
SERIAL #: 18818435/18820994
MANUFACTURER: OMEGA
RECORDER: NA
TRANSMITTER: TUF200B (2)
PRIMARY: 4 INCH
MAXIMUM CAPACITY: 200 GPM
SERVICE CONTRACT: SEMI ANNUAL

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** 0, 50 & 100%
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TOTALIZER CALIBRATION **CHECKED AT:** OPERATING RATE
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TRANSMITTER CALIBRATION
VOLUMETRIC CALIBRATION
ERROR: 0% **CORRECTED ACCURACY:** ±5%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: BRANDON HOOPER **PERSON SEEN:**
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TheMeterGuy, LLC.

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PHONE: (717) 940-1987

*****SERVICE REPORT*****

JIM KELLY
PENNSYLVANIA AMERICAN WATER
100 CHESHIRE COURT
COATESVILLE, PA 19320

SERVICE DATE: 12/5/2022
METER#: C8317 BG
LOCATION: VALLEY VIEW - *Waverly Valley Twp.*
SERIAL #: 21831520
MANUFACTURER: OMEGA
RECORDER: NA
TRANSMITTER: TUF200B
PRIMARY: 2 INCH
MAXIMUM CAPACITY: 100 GPM
SERVICE CONTRACT: SEMI ANNUAL

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** 0, 50 & 100%
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TOTALIZER CALIBRATION **CHECKED AT:** OPERATING RATE
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TRANSMITTER CALIBRATION
VOLUMETRIC CALIBRATION
ERROR: 0% **CORRECTED ACCURACY:** ±5%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: BRANDON HOOPER **PERSON SEEN:**
copies-

TheMeterGuy, LLC.

5758 GLEN OAKS DRIVE NARVON, PA 17555
PHONE: (717) 940-1987

*****SERVICE REPORT*****

JIM KELLY
PENNSYLVANIA AMERICAN WATER
100 CHESHIRE COURT
COATESVILLE, PA 19320

SERVICE DATE: 12/9/2022
METER#: C8317 AI
LOCATION: MOUNT AIRY - *Valley Twp.*
SERIAL #: 21814169
MANUFACTURER: OMEGA
RECORDER: NA
TRANSMITTER: TUF200B
PRIMARY: 4 INCH
MAXIMUM CAPACITY: 200 GPM
SERVICE CONTRACT: SEMI ANNUAL

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** 0, 50 & 100%
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TOTALIZER CALIBRATION **CHECKED AT:** OPERATING RATE
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TRANSMITTER CALIBRATION
VOLUMETRIC CALIBRATION
ERROR: 0% **CORRECTED ACCURACY:** ±5%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: BRANDON HOOPER **PERSON SEEN:**
copies-

TheMeterGuy, LLC.

5758 GLEN OAKS DRIVE NARVON, PA 17555
PHONE: (717) 940-1987

*****SERVICE REPORT*****

JIM KELLY
PENNSYLVANIA AMERICAN WATER
100 CHESHIRE COURT
COATESVILLE, PA 19320

SERVICE DATE: 12/5/2022
METER#: C8317 AQ
LOCATION: ROCK RUN - *Valley Twp.*
SERIAL #: A70BC123268/5C017116000
MANUFACTURER: ENDRESS HAUSER
RECORDER: RSG30
TRANSMITTER: PROMAG 50
PRIMARY: 8 " MAG
MAXIMUM CAPACITY: 1,000 GPM
SERVICE CONTRACT: QUARTERLY

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** 0, 25, 50 & 100%
ERROR: 0% **CORRECTED ACCURACY:** $\pm 1/2\%$

TOTALIZER CALIBRATION **CHECKED AT:** OPERATING RATE
ERROR: 0% **CORRECTED ACCURACY:** $\pm 1/2\%$

TRANSMITTER CALIBRATION
VOLUMETRIC DRAWDOWN
ERROR: 0% **CORRECTED ACCURACY:** $\pm 5\%$

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: BRANDON HOOPER **PERSON SEEN:**
copies-

TheMeterGuy, LLC.

5758 GLEN OAKS DRIVE NARVON, PA 17555
PHONE: (717) 940-1987

*****SERVICE REPORT*****

JIM KELLY
PENNSYLVANIA AMERICAN WATER
100 CHESHIRE COURT
COATESVILLE, PA 19320

SERVICE DATE: 12/1/2022
METER#: C8317 AR
LOCATION: VALLEY ROAD - *Valley Twp.*
SERIAL #: 15274
MANUFACTURER: EASTECH
RECORDER:
TRANSMITTER: 2210
PRIMARY: 18" LL FLUME
MAXIMUM CAPACITY: 1,000 GPM
SERVICE CONTRACT: QUARTERLY

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** N/A
ERROR: N/A **CORRECTED ACCURACY:** N/A

TOTALIZER CALIBRATION **CHECKED AT:** 0, 25, 50 & 100%
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TRANSMITTER CALIBRATION
SIMULATED HEAD RISES & FLOW MEASUREMENTS
ERROR: 0% **CORRECTED ACCURACY:** ±1%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DMOORE & BHOOPER **PERSON SEEN:** HAVE KEYS
copies-

TheMeterGuy, LLC.

5758 GLEN OAKS DRIVE NARVON, PA 17555
PHONE: (717) 940-1987

*****SERVICE REPORT*****

JIM KELLY
PENNSYLVANIA AMERICAN WATER
100 CHESHIRE COURT
COATESVILLE, PA 19320

SERVICE DATE: 12/1/2022

METER#: C8317 AN

LOCATION: 11TH & DIAMOND STREETS - VA Hospital + N. Brandywine deduct meter

SERIAL #: CY5

MANUFACTURER: AMERICAN SIGMA

RECORDER: 950

TRANSMITTER: ULTRASONIC

PRIMARY: 15" PALMER BOWLUS FLUME

MAXIMUM CAPACITY:

SERVICE CONTRACT: QUARTERLY

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** N/A

ERROR: N/A **CORRECTED ACCURACY:** N/A

TOTALIZER CALIBRATION **CHECKED AT:** OPERATING RATE

ERROR: 0% **CORRECTED ACCURACY:** ± 1%

TRANSMITTER CALIBRATION

FLOW MEASUREMENTS

ERROR: 0% **CORRECTED ACCURACY:** ± .125"

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DMOORE & BHOOPER **PERSON SEEN:**
copies-

TheMeterGuy, LLC.

5758 GLEN OAKS DRIVE NARVON, PA 17555
PHONE: (717) 940-1987

*****SERVICE REPORT*****

JIM KELLY
PENNSYLVANIA AMERICAN WATER
100 CHESHIRE COURT
COATESVILLE, PA 19320

SERVICE DATE: 12/1/2022
METER#: C8317 AP
LOCATION: CHARLES STREET - *Valley Twp.*
SERIAL #: 9011837/8403A9747A24
MANUFACTURER: BADGER/ F & P
RECORDER:
TRANSMITTER: 2100
PRIMARY: 15" LL FLUME
MAXIMUM CAPACITY: 400 GPM
SERVICE CONTRACT: QUARTERLY

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** N/A
ERROR: N/A **CORRECTED ACCURACY:** N/A

TOTALIZER CALIBRATION **CHECKED AT:** 0, 25, 50 & 100%
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TRANSMITTER CALIBRATION
SIMULATED HEAD RISES AND FLOW MEASUREMENTS
ERROR: 0% **CORRECTED ACCURACY:** ±1%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DMOORE & BHOOPER **PERSON SEEN:** HAVE KEYS
copies-

TheMeterGuy, LLC.

5758 GLEN OAKS DRIVE NARVON, PA 17555
PHONE: (717) 940-1987

*****SERVICE REPORT*****

JIM KELLY
PENNSYLVANIA AMERICAN WATER
100 CHESHIRE COURT
COATESVILLE, PA 19320

SERVICE DATE: 12/5/2022
METER#: C8317 AK
LOCATION: HILL TOP - *Trailer Park E. Fallowfield*
SERIAL #: 01W046489
MANUFACTURER: KENT-TAYLOR ABB
RECORDER: N/A
TRANSMITTER: MAGMASTER
PRIMARY: 2" MAG
MAXIMUM CAPACITY: 150 GPM
SERVICE CONTRACT: QUARTERLY

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** N/A
ERROR: N/A **CORRECTED ACCURACY:** N/A

TOTALIZER CALIBRATION **CHECKED AT:** OPERATING RATE
ERROR: 0% **CORRECTED ACCURACY:** ±1%

TRANSMITTER CALIBRATION
VOLUMETRIC DRAWDOWN
ERROR: 0% **CORRECTED ACCURACY:** ± 5%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DAVID MOORE **PERSON SEEN:** HAVE KEY
copies-

TheMeterGuy, LLC.

5758 GLEN OAKS DRIVE NARVON, PA 17555
PHONE: (717) 940-1987

*****SERVICE REPORT*****

JIM KELLY
PENNSYLVANIA AMERICAN WATER
100 CHESHIRE COURT
COATESVILLE, PA 19320

SERVICE DATE: 12/5/2022
METER#: C8317 BD
LOCATION: SADBURY PUMP STATION
SERIAL #: 00W011634/883533-0003
MANUFACTURER: F & P/PARTLOW
RECORDER: MRC 5000
TRANSMITTER: 50XM13NXAB20AABC229
PRIMARY: MAGMETER
MAXIMUM CAPACITY: 2500 GPM
SERVICE CONTRACT: QUARTERLY

WORK PERFORMED

CLEANED EQUIPMENT: X **PRIMARY:** X

RECORDER CALIBRATION **CHECKED AT:** 0, 25, 50, 75 & 100%
ERROR: 0 **CORRECTED ACCURACY:** ± 1%

TOTALIZER CALIBRATION **CHECKED AT:** OPERATING RATE
ERROR: 0% **CORRECTED ACCURACY:** ± 1%

TRANSMITTER CALIBRATION
VOLUMETRIC CALIBRATION
ERROR: 0% **CORRECTED ACCURACY:** ± 1%

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: BRANDON HOOPER **PERSON SEEN:**
copies-

TheMeterGuy, LLC.

5758 GLEN OAKS DRIVE NARVON, PA 17555
PHONE: (717) 940-1987

*****SERVICE REPORT*****

JIM KELLY
PENNSYLVANIA AMERICAN WATER
100 CHESHIRE COURT
COATESVILLE, PA 19320

SERVICE DATE: 12/1/2022
METER#: C8317 AO
LOCATION: STATION 46 - *West Brandywine Twp.*
SERIAL #: A7Y
MANUFACTURER: KROHNE
RECORDER: VU31
TRANSMITTER: ULTRASONIC
PRIMARY: 12" PALMER BOWLUS FLUME
MAXIMUM CAPACITY: 1.08 MGD
SERVICE CONTRACT: QUARTERLY

WORK PERFORMED

CLEANED EQUIPMENT: X PRIMARY: X

RECORDER CALIBRATION CHECKED AT: N/A
ERROR: N/A CORRECTED ACCURACY: N/A

TOTALIZER CALIBRATION CHECKED AT: OPERATING RATE
ERROR: 0% CORRECTED ACCURACY: ±1%

TRANSMITTER CALIBRATION
FLOW MEASUREMENT
ERROR: 0% CORRECTED ACCURACY: ±.125"

COMMENTS: LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DMOORE & BHOOPER PERSON SEEN:
copies-

E. PAWC Sewer Use Rules and Regulations and Industrial Use Survey

PENNSYLVANIA-AMERICAN WATER COMPANYRULES AND REGULATIONS**Section A – DEFINITIONS**

The following words and phrases, when used in this tariff, shall have the meanings assigned below unless the context clearly indicates otherwise:

1. **Applicant:** A person, association, partnership, corporation, municipality, authority, state or federal governmental agency or other entity who applies to become a customer of the Company in accordance with Section C, of this tariff.
2. **B.O.D. (Biochemical Oxygen Demand):** The quantity of oxygen, expressed in milligrams per liter, utilized in the biochemical oxidation of organic matter under the standard laboratory procedure for five (5) days at twenty (20) degrees Centigrade. The standard laboratory procedure shall be that found in the latest approved edition of "Standard Methods for the Examination of Water and Sewage" published by the American Public Health Association, the American Water Works Association, and/or the Water Pollution Control Federation.
3. **Capacity Reservation fee:** A fee charged by the Company for the allocation of capacity on a per EDU basis.
4. **Combined Sewer:** A sewage collection system which conveys both sanitary sewage and storm water flow.
5. **Commission:** The Pennsylvania Public Utility Commission.
6. **Company:** Pennsylvania-American Water Company and its duly authorized officers, agents and employees, each acting within the scope of his authority and employment.
7. **Company Service Line:** Company owned wastewater service line from the sewer main of the Company which connects to the Customer Service Line at the edge of the right-of-way or actual property line.
8. **Customer:** A person or entity who is an owner, occupant or who contracts with the Company for or who takes or receives wastewater collection, treatment and/or disposal service.
9. **Customer Service Line:** Customer owned wastewater service line extending from the end of the Company Service Line or connection to and within the customer's premise.
10. **Domestic Wastewater:** The liquid waste or liquid borne waste: (1) resulting from the non-commercial preparation, cooking and handling of food; (2) consisting of human excrement; or (3) consisting of wastewater, non-commercial laundering water, domestic housekeeping wastewater, and similar types of wastes from sanitary uses, whether generated in residences or sanitary facilities in commercial or industrial facilities, but does not include any storm water or ground water introduced from facilities such as roof leaders, sump pumps, floor drains or industrial wastewater.
11. **Dwelling Unit:** A structure or dwelling intended to be occupied as a whole by one family.

PENNSYLVANIA-AMERICAN WATER COMPANY**RULES AND REGULATIONS****Section A – DEFINITIONS (cont'd)**

12. **Equivalent Dwelling Units (EDU):** The EDU is a measure based upon the estimated average daily wastewater flow for the type of business, as calculated by the PaDEP Regulation at 25 Pa Code: 73.17 divided by the typical estimated average daily wastewater flow from a current single-family unit.
13. **Garbage:** The solid wastes from domestic cooking and dispensing of food, and from the handling and storage of produce.
14. **Garbage Properly Shredded:** The term "Properly Shredded Garbage", as used herein, shall mean the wastes from the preparation, cooking, and dispensing of food that have been shredded to such degree that all particles will be carried freely under the flow conditions normally prevailing in public sewers, with no particle greater than one-half inch in dimension.
15. **Grinder pump:** Any mechanical or powered device, owned by the Customer, used to grind, macerate or fluidize garbage so that it can be discharged into the Sanitary Sewer.
16. **Industrial/Commercial Wastes:** Any liquid, gaseous or water borne wastes from industrial processes or commercial establishments, as distinct from domestic wastewater.
17. **Industrial/Commercial Waste Permit:** A wastewater permit issued as required by the Company to an Industrial/Commercial user which discharges Industrial/Commercial Waste.
18. **Industrial/Commercial Waste Pretreatment Program:** A program established by the Company that requires industrial and commercial dischargers to monitor, test, treat and control as necessary pollutants in their wastewater prior to discharge into the Sanitary or Combined Sewer.
19. **Line extension (for line extension purposes):** An addition to the Company's main line which is necessary to serve the premises of a Customer. Refer to Section H.
20. **Main:** The Company's pipe, excluding service connections, located in a public highway, street, alley or private right-of-way which pipe is used in transporting wastewater.
21. **Meter:** Any device supplied by the Company or other for the purpose of measuring water consumption or wastewater discharge.
22. **Nonresidential Service:** Wastewater service supplied to a commercial or industrial building, including a hotel or motel, or to a master-metered trailer park or multi-tenant apartment building, or to any customer who purchases wastewater service from the Company for the purpose of resale.
23. **Pretreatment:** The application of physical, chemical and/or biological processes to reduce the amount pollutants in, or alter the nature of the polluting properties of, an industrial/commercial process wastewater prior to discharging such wastewater into the Sanitary or Combined Sewer.

PENNSYLVANIA-AMERICAN WATER COMPANY**RULES AND REGULATIONS****Section A – DEFINITIONS (cont'd)**

24. **Public Utility:** Persons or corporations owning or operating equipment or facilities in this Commonwealth for water, electric or wastewater collection, treatment, or disposal for the public for compensation.
25. **Residential Applicant:** A natural person at least 18 years of age not currently receiving service who applies for residential service provided by the Company or any adult occupant whose name appears on the mortgage, deed or lease of the property for which the residential utility service is requested. A Residential Applicant does not include a person who, within 30 days after service termination or discontinuance of service, seeks to have another service reconnected at the same location or transferred to another location within the Company's service territory.
26. **Residential Customer:** A natural person at least 18 years of age in whose name a residential service account is listed and who is primarily responsible for payment of bills rendered for the service or any adult occupant whose name appears on the mortgage, deed or lease of the property for which the residential utility service is requested. A Residential Customer includes a person who, within 30 days after service termination or discontinuance of service, seeks to have service reconnected at the same location or transferred to another location within the Company's service territory.
27. **Residential Service:** Wastewater service supplied to an individual single-family residential dwelling unit.
28. **Regulatory Agency:** Agencies, including but not limited to the Commission, the Pennsylvania Department of Environmental Protection (DEP), U.S. Environmental Protection Agency (EPA), which have authority over the operations of and/or discharges into and/or from the Company's treatment facilities
29. **Sanitary Sewer:** A sewer which primarily carries sanitary wastewater, together with such storm, surface and ground water as may be present.
30. **Storm Sewer:** A sewer which carries surface, ground water, or storm water from the buildings, ground, streets, or other areas.
31. **Storm Water Flow:** Any flow occurring during or following any form of natural precipitation, and resulting from such precipitation, including snowmelt.
32. **Suspended Solids:** Solids that either float on the surface of, or are in suspension in water, wastewater, or other liquids, and which are largely removable by filtration.
33. **Tariff:** All of the service rates, rules and regulations issued by the Company, together with any supplements or revisions thereto, officially approved by the Commission and contained in this document.
34. **Toxic Substances:** Any substances where gaseous, liquid or solid waste which, when discharged to a public sewer in sufficient quantities, will be detrimental to any biological wastewater treatment process, constitute a hazard to human beings or animals, inhibit aquatic life, or create a hazard to recreation in receiving waters of the effluent from a wastewater treatment plant, or as defined pursuant to PL 92500 (Federal Water Pollution Control Act Amendments of 1972) or its amendments.

PENNSYLVANIA-AMERICAN WATER COMPANY

RULES AND REGULATIONS

Section A – DEFINITIONS (cont'd)

35. **Unauthorized Use of Service:** Unreasonable interference or diversion of service, including meter tampering (any act which affects the proper registration of service through a meter), by-passing unmetered service that flows through a device connected between a main or service line and customer-owned facilities, unauthorized service restoration, unauthorized stormwater/groundwater connection to Sanitary or Combined Sewer, or the otherwise taking or receiving of wastewater service without the knowledge or approval of the Company.

36. **Wastes:** Any liquid, gaseous, or solid substances or combination thereof which are discarded, leached, or spilled substances or combination thereof including sanitary wastewater but excluding storm-water.

37. **Wastewater:** The liquid and water-carried wastes from dwellings, commercial facilities, industrial facilities and institutions, together with any groundwater, surface water, and storm water that may be present, whether treated or untreated, in the Company's sewer system.

PENNSYLVANIA-AMERICAN WATER COMPANY

RULES AND REGULATIONS

Section B – The Wastewater Tariff

1. Filing and Availability

A copy of this Tariff, which is the rates, rules and regulations under which wastewater service will be supplied by the Company to its Applicants and Customers in Pennsylvania, is on file with the Pennsylvania Public Utility Commission, and is available and open for inspection at the offices of the Company.

2. Revisions

This Tariff may be revised, amended, supplemented and otherwise changed from time to time in accordance with the Pennsylvania "Public Utility Code," and such changes, when effective, shall have the same force and effect as the present Tariff.

3. Applications of Tariff

The Tariff provisions apply to any party or parties applying for or receiving service from the Company, including Unauthorized Use of Service.

RULES AND REGULATIONS**Section C - Applications for Service**

- 1. Service Application Required:** Any Applicant who wishes to receive wastewater service from the Company under this Tariff must contact the Company and complete an application for service. Applications for service may be made by completing a written application, by telephoning the Company, or through application via the Company's website on the Internet. All applications for service must be signed by the owner or owners of the property to which wastewater collection service will be provided; except that where a lessee of property occupies or uses the property under a lease having a fixed term of more than six (6) months, the lessee may request service as an applicant. The Company may, at its sole discretion, require that a separate contract for service be signed by the applicant.

Prior to providing utility service, the Company may require the Applicant to provide: (1) information that positively identifies him/her self; (2) the name of any adult occupant whose name appears on the mortgage, deed or lease of the property for which the residential utility service is requested; (3) the names of each adult occupant residing at the location, and proof of their identity; or (4) a cash deposit, as may be required in accordance with Section G of this Tariff.

In the case of Residential Applicants, the Company may ask for the combined gross income of all adult occupants at the time the application for service is made; however, the Residential Applicant is not required to provide the information as a condition of receiving wastewater service, unless such applicant is seeking to enroll in the Company's *Help to Others Program*.

Non residential service customers which desire to discharge Industrial/Commercial Wastes into the Sanitary Sewer or existing industrial/commercial users which desire to commence operations of a new facility or a new or different process that will affect the characteristics of the wastewater discharging into the Sanitary Sewer, shall notify the Company prior to the commencement of the new or different operations at the facility and provide such other information regarding the proposed discharge as the Company may request, including an application for an Industrial Waste Discharge Permit when deemed necessary.

- 2. Change in Ownership or Tenancy:** A new application must be made to the Company upon any change in ownership where the owner of the property is the Customer, or upon any change in the identity of a lessee where the lessee of the property is the Customer. The Company shall have the right to discontinue or otherwise interrupt wastewater collection service upon three (3) days notice if a new application has not been made and approved for the new customer.

PENNSYLVANIA-AMERICAN WATER COMPANY

RULES AND REGULATIONS

Section C - Applications for Service (cont'd)

3. **Acceptance of Application and Right to Reject:** An application for service shall be considered accepted by the Company only upon written approval by the Company. All regulatory requirements shall be met before Company can provide approval. The Company may limit the amount or character of service it will supply, or may reject applications for service for the following reasons: requested service is not available under a standard rate; requested service may affect service to other customers; for a non-Residential Applicant's or non-Residential Customer's failure to establish Creditworthiness; for failure to address prior Company debts; for the Applicant's failure to provide identifying documentation of the Applicant and each adult occupant residing at the location; when identifying documentation cannot be verified; for the reasons set forth in Section D, paragraph 5, or for other good and sufficient reasons.
4. **Temporary Service:** In the case of temporary service for less than a 12-month period, the Company may require the Customer to pay all costs of making the service connection and for its removal after the service has been discontinued, or to pay a fixed amount in advance to cover such expenses. If the actual costs differ from the estimate, the Applicant will pay to the Company any excess amount due or the Company will refund to the Applicant any excess amount paid.

PENNSYLVANIA-AMERICAN WATER COMPANY**RULES AND REGULATIONS****Section D - Construction and Maintenance of Facilities**

1. **Customer Service Line:** The Customer service line shall be furnished, installed, maintained and/or replaced, when necessary, by and at the sole expense of the Customer. The Company reserves the right to determine the size, type, quality, depth, and connection location of the customer service lines. Prior to connection to the Company service line, the Customer, at their sole cost, shall have the Customer service line air pressure tested and checked for alignment by a Company approved qualified person under the supervision of a Company representative.
2. **Separate Trench:** The customer wastewater service line shall not be laid in the same trench with drain or water pipe, the facilities of any other public utility or of any municipality or municipal authority that provides a public utility service.
3. **Customer's Responsibilities:** All service lines, connections and fixtures furnished by the customer shall be maintained by the Customer in good working order. All valves, meters and appliances furnished by the Company and on property owned or leased by the Customer shall be protected properly by the customer. All leaks in the Customer service line or any pipe or fixtures in or upon the customer's premises must be repaired immediately by the Customer as determined solely by the Company. The failure of a Customer to properly install and maintain a service line, including replacement, shall constitute grounds for the Company to initiate action to terminate service to the customer and seek recovery for any damage to the Company's facilities caused by an improperly functioning service line. For Customers who also receive water service from the Company, where an undetected, non-surfacing, underground leak is found in a Customer's Water Service Pipe, the Company shall credit the Customer with a one-time bill adjustment for wastewater service equal to forty percent (40%) of that portion of one month's consumption that exceeds the average monthly usage, based on the prior twelve month period, upon proper verification that the Water Service Pipe leak has been repaired. The Company shall require documentation to establish, to the Company's satisfaction, the existence of such repaired leak at the Customer's premises. Such bill adjustment will be provided only to the extent the Customer has not received a bill adjustment for an undetected, non-surfacing, underground leak at the same premises in the past five (5) years.
4. **Customer Grinder Pump:** In areas of the collection system where the Company has installed a pressure sewage collection system or where required as determined by the Company, the Customer, in conjunction with the construction of their service line, shall install, own, operate, and maintain and replace a grinder pump and holding tank at the Customer's expense as specified by the Company prior to connection and shall maintain such facilities in good order and repair. The pump shall meet specifications as provided by the Company. The failure of a customer to properly install and maintain a grinder pump, including replacement, shall constitute grounds for the Company to initiate action to terminate service to the customer and seek recovery for any damage to the Company's facilities caused by an improperly functioning grinder pump.
5. **Right to Reject:** The Company may refuse to connect with any customer service line or furnish wastewater collection, treatment and/or disposal through a service already connected if such system or service is not properly installed or maintained.

PENNSYLVANIA-AMERICAN WATER COMPANY**RULES AND REGULATIONS****Section D – Construction and Maintenance of Facilities (cont'd)**

6. **Water Use Standards for Certain Plumbing Fixtures:** This rule establishes maximum water use criteria for certain plumbing fixtures installed in all new construction or renovation. Such standards have been implemented to achieve maximum efficiency of water use which the Commission has determined is technologically feasible and economically justified.

(a) Maximum permitted water usage levels shall be as follows:

<u>Plumbing Fixture</u>	<u>Maximum Water Use</u>
water closets	1.6 gallons/flush
urinals	1.5 gallons/flush

(b) The Company may exempt particular customers, or classes of customers, when it is determined that the water use standards for plumbing fixtures listed above are unreasonable, cannot be accommodated by existing technology or are otherwise inappropriate.

7. **Individual Service Lines:** Except as otherwise expressly authorized by the Company, each individual customer shall be served only through a separate service line connected directly to the Company Service Line, and that Customer Service Line shall not cross over the property of or serve any other customer or premise. The maximum service line length shall be two hundred and fifty (250) feet from the point of connections with clean-outs every 50 feet. The Company shall have the right to waive this maximum length requirement at its sole discretion. No additional attachment may be made to any Customer Service Line for any purpose without the express written approval of the Company.

8. **Connection to Company Mains:** No connection shall be made to the Company's main, nor detachment from it, except under the direction and control of the Company. All such connections shall be property of the Company and shall be accessible to it and under its control. The Company will furnish, install and maintain all service lines from the main to the property line or right-of-way.

PENNSYLVANIA-AMERICAN WATER COMPANY**RULES AND REGULATIONS****Section E - Discontinuance, Termination and Restoration of Service**

1. Discontinuance by Customer: Where a customer requests the Company to discontinue service, the following rules shall apply:

(a) A customer who wishes to have service discontinued shall give at least three (3) days notice to the Company, specifying the date on which service is to be discontinued. In the absence of proper notice, the Customer shall be responsible for all service rendered until the time that the Company shall have actual or constructive notice of the Customer's intent to discontinue service. The Customer shall not begin to use nor cease to use wastewater service without the prior consent of the Company.

2. Termination by Company: Wastewater and/or water service to the Customer may be terminated for good cause, including, but not limited to, the following:

- (a) making an application for wastewater service that contains material misrepresentations;
- (b) failure to repair leaks in sewer pipes or fixtures;
- (c) Unauthorized Use of Service, tampering with any Company Service Line, or installing or maintaining any unauthorized connection;
- (d) theft of sewer service, which shall include taking service without having made a proper application for service under Section C;
- (e) failure to pay, when due, any charges accruing under this tariff;
- (f) discharge of any prohibited substance listed in Section R into the wastewater system;
- (g) receipt by the Company of an order or notice from the Department of Environmental Protection, a health agency, local plumbing inspector or other similar authority, to terminate service to the property served on the grounds of violation of any law or ordinance, or upon notice to the Company from any such authority that has ordered an existing violation on the property to be corrected and that such order has not been complied with or
- (h) material violation of any provisions of the tariff;
- (i) failure to permit access to meters, service connection or other property of the Company for the purpose of replacements, maintenance, operation or repair of meter reading device after proper notice;
- (j) failure to properly install and maintain a grinder pump, including its replacement when improperly functioning as solely determined by the Company;

PENNSYLVANIA-AMERICAN WATER COMPANY**RULES AND REGULATIONS****Section E - Discontinuance, Termination and Restoration of Service (cont'd)****2. Termination by Company (cont'd)**

- (k) any unauthorized, un-inspected, or improper connection, as herein defined, found to exist will be required to be disconnected within ten (10) days. The Company may require a plumber's sworn statement or certificate as evidence that the connection has been discontinued;
- (l) Not abiding by the provisions of the Company's Industrial/ Commercial Waste Pretreatment Program;
- (m) Failure to remove direct connections to the Customer Service Line that allow surface, subsurface, storm water, or roof run off water into the Sanitary Sewer;
- (n) Not complying with any part of this tariff;
- (o) Supplying sewer service to other units, buildings or premises when Capacity Reservation Fees have not been paid for in accordance with tariff;
- (p) For termination of water service by Company in accordance with the Company's water tariff on file with the Commission;
- (q) For Customer's tendering payment for reconnection of service that is subsequently dishonored, revoked, canceled or otherwise not authorized and which has not been cured or otherwise made in full payment within three business days of the Company's notice; or
- (r) After receiving a written termination notice from the Company, for Customer's tendering payment which is subsequently dishonored under 13 Pa. C.S. § 3502, or, in the case of an electronic payment, that is subsequently dishonored, revoked, canceled or otherwise not authorized and which has not been cured or otherwise made in full payment within three business days of the Company's notice.

In order to terminate wastewater service, the Company can at its discretion install a shut off valve on the Company's Service Line to terminate service. The cost for the installation of the shut off valve and all the other charges accruing under this tariff shall be paid to the Company before service is restored.

3. Turn-on Charge: Whenever service is discontinued or terminated pursuant to Rule 1 or Rule 2 of this Section, service shall be permitted by the Company only upon the payment by the Customer of a turn-on fee and the curing of the problem that gave rise to the terminations if under Rule 2. Refer to Schedule of Miscellaneous Fees and Charges; section C for Service Reconnection and Discontinuance Fee.

4. Service Restoration Following Termination of Service: When wastewater service to any premise has been terminated by Company for any reason, it will be restored only after the conditions, circumstances, or practices which caused the wastewater service to be terminated are corrected and all applicable arrearages, deposits and fees paid.

PENNSYLVANIA-AMERICAN WATER COMPANY**RULES AND REGULATIONS****Section F - Billing and Collection**

1. **Billing Period:** The Company shall render a bill once every billing period to every Customer in accordance with approved rate schedules. The due date for payment of a bill for Residential and Non-Residential service shall be no less than twenty (20) days from the date of transmittal. If the last day for payment falls on a Saturday, Sunday or bank holiday, or on any day when the offices of the Company are not open to the general public, the due date shall be extended to the next business day. The Company may not impose a late-payment charge unless payment is received more than five (5) days after the stated due date.
2. **Late-Payment Charge:** All amounts not paid when due shall accrue a late-payment charge at the rate not to exceed one and fifty one-hundredths percent (1.50%) per billing period, not to exceed eighteen percent (18%) per year when not paid as prescribed in Rule 1 of this Section. (C)
3. **Change in Billing Address:** Where a customer fails to notify the Company of a change in billing address, the Customer shall remain responsible to remit payment by the billing due date.
4. **Application of Payment:** Utility bills rendered by the Company shall include only the amount due for utility service. Where a customer remittance to the Company includes payment for any non-utility services, proceeds will be applied first to pay all outstanding regulated utility charges.
5. **Return Check Fee:** The customer will be responsible for return check fee as provided in the Schedule of Miscellaneous Fees and Charges section of the tariff, per incident where a check or automatic transfer of funds, which has been presented to the Company or its agent for payment of any bill, is returned by the bank for any reason including, but not limited to, non-sufficient funds, account closed, payment stopped, two signatures required, postdated, stale date, no account, drawn against uncollected funds, and unauthorized signature. This fee is in addition to any and all charges assessed by the bank.
6. **Disputed Bills:** In the event of a dispute between the Customer and the Company with respect to any bill, the Company will promptly make such investigation as may be required by the particular case and report the result to the Customer. The Customer is not obligated to pay the disputed amount during the pendency of the Company's investigation. When the Company has made a report to the Customer sustaining the bill as rendered, the Customer shall have fifteen (15) days from the date of such report in which to pay the bill. If the Company determines that the bill originally rendered is incorrect, the Company will issue a corrected bill with a new due date for payment. Any amount received by the Company in excess of the amount determined to be due by the Company's investigation of the dispute shall be refunded to the Customer.

(C) means Change

PENNSYLVANIA-AMERICAN WATER COMPANY**RULES AND REGULATIONS****Section G – Credit/Deposits****1. Customer's Liability for Charges:**

The Customer who has made application for wastewater service to any premise shall be held liable for all wastewater service furnished to such premise until such time as the Customer properly notifies the Company to discontinue the service for this account.

2. Prior Company Debts:

(a) Service will not be furnished to former Customers until any indebtedness to the Company for previous service of the same or similar classification has been satisfied or a payment arrangement has been made on the debt. This rule does not apply to the disputed portion of disputed bills under investigation. The Company will apply this rule to the disputed portion of disputed bills, if, and only if: (1) the Company has made diligent and reasonable efforts to investigate and resolve the dispute; (2) the result of the investigation is that the Company determines that the customer's claims are unwarranted or invalid; and (3) the Commission and/or the Bureau of Consumer Services has decided a formal or informal complaint in the Company's favor and no timely appeal is filed.

(b) The Company may utilize means in accordance with applicable law of determining an Applicant's or Customer's liability for any indebtedness to the Company for previous service, including, but not limited to, the following: (1) use of Company records that containing confidential information previously provided to the Company for service; (2) information contained on a valid mortgage, lease or deed; (3) other information contained in the Company's records that indicate that the Applicant was an adult occupant during the time the prior debt accrued; (4) use of commercially available skip tracing software that contains records of names and addresses; and (5) use of information contained in credit reporting data utilized by the Company.

3. Residential Customers' Deposits: The Company may charge deposits to Residential Applicants and Residential Customers as permitted by Commission statutes, rules regulations, and as permitted by Federal Bankruptcy Law.

- (a) . Deposits may be required from a Residential Applicant who is unable to establish Creditworthiness to the satisfaction of the Company through the use of a generally accepted credit scoring methodology which employs standards for using the methodology that falls within the range of general industry practice and specifically assess the risk of public utility bill payment.
- (b) Deposits may be required from a Residential Customer who fails to comply with the material terms or conditions of a settlement or payment arrangement or is delinquent in the payment of two consecutive bills, or three or more bills within the preceding twelve months.

PENNSYLVANIA-AMERICAN WATER COMPANY**RULES AND REGULATIONS****Section G – Credit/Deposits (cont'd)****3. Residential Customers' Deposits (cont'd):**

- (c) Prior to reconnection of service, deposits may be required from a Residential Applicant or Residential Customer whose service was terminated for any of the following reasons: (a) nonpayment of an undisputed delinquent account; (b) failure to complete payment of a deposit, providing a guarantee or establish credit; (c) failure to permit access to meters, service connections or other property of Company for the purpose of replacement, maintenance, repair or meter reading; (d) Unauthorized Use of Service on or about the affected dwelling; (e) failure to comply with the material terms of a settlement or payment arrangement; (f) fraud or material misrepresentation of identity for the purposes of obtaining utility service; (g) tampering with meters, including, but not limited to, bypassing a meter or removal of an automatic meter reading device or other Company equipment; or (h) violating tariff provisions on file with the Commission so as to endanger the safety of a person or the integrity of the Company's water distribution system.
- (d) Deposit Amount and Payment Period - For Residential Applicants or Customers, the cash deposit required shall be in an amount equal to 1/6 of an Applicant's or Customer's estimated annual bill at the time the Company determines the deposit is required. Any Residential Applicant or Customer shall have up to 90 days to pay the deposit in full and may elect to pay the required deposit in three installments: 50% bill upon the determination that the deposit is required; 25% billed 30 days after the determination; and 25% billed 60 days after the determination. The Residential Applicant or Customer may elect to pay the deposit in full before the due date.
- (e) Deposit Refunds and Interest—A deposit will be refunded if service is discontinued and the final bill is paid or if the customer has paid the bills for the prior 12-month period without having been late on more than two (2) occasions and is not currently delinquent. Interest on deposits will be accrued until is returned to the Customer or upon termination or discontinuance of the service covered by the deposit. Deposits from residential customers shall bear simple interest at the rate determined by the Secretary of Revenue for interest on the underpayment of tax under section 806 of The Fiscal Code (72 P.S. § 806). The applicable interest rate for each year shall be determined as of January 1 of that year.

4. Nonresidential Customers' Deposits:

- (a) The Company may charge deposits to Non-Residential Applicants and Non-Residential Customers if they have bad credit, lack Creditworthiness, or for other reasonable grounds determined by the Company, and as permitted by Federal Bankruptcy Law.
- (b) The amount of the deposit will not be greater than an estimated average bill for one (1) billing period plus the estimated bill for one (1) additional month's service.
- (c) Deposit Refunds and Interest— A deposit will be refunded if the customer pays all bills on time over a 12-month period or if service is disconnected and the final bill has been paid. There will be no interest paid on deposits for nonresidential accounts.

PENNSYLVANIA-AMERICAN WATER COMPANY

RULES AND REGULATIONS

Section H - Line Extensions for Applicants other than Bona Fide Service Applicants

1. When an extension to serve a Customer is required or requested, such extension will be made under the terms of a "Sewer Main Extension Agreement" or a "Sewer Main Extension Deposit Agreement".
2. Customer shall contribute all facilities required for the Company to directly connect the Customer to the Sanitary Sewer. This includes pumping stations, vaults, manholes, mains or any other apparatuses where applicable. The Company shall have the right to locate the facilities as required to meet the long term system needs of the Customers.
3. Customer shall also pay a capacity reservation fee to the Company for each proposed equivalent dwelling unit.
4. **Size of Main and Other Facilities:** The Company shall have the exclusive right to determine the type and size of mains and the other facilities required to render adequate service. However, where the Company decides to install a pipe larger than necessary to render extension of adequate service to the applicant, estimated or actual cost figures in the Sewer Main Extension Agreement or Sewer Main Extension Deposit Agreement shall include only the material and installation cost for a pipe the size of which is necessary to provide adequate service to the applicant. Any incremental costs of a larger pipe will be the responsibility of the Company. All estimated or actual cost figures referred to in the Sewer Main Extension Agreement or Sewer Main Extension Deposit Agreement shall include a reasonable allowance for overhead costs and taxes as appropriate.
5. **Length of Extension:** In determining the necessary length of an extension, the terminal point of such extension shall be at that point in the property line or right-of-way, which is equidistant from the side property lines of the last lot for which service was requested except where the Company, in its sole opinion, determines that it is necessary to extend beyond the last lot and connect to an existing main to provide adequate and reliable wastewater service. A street service connection will be provided only for customer service lines that extend at right angles from the curb line in a straight line to the premises to be served.
6. **Offsite Development Marketing Contracts:** Where it is prudent, reasonable and in the public interest, the Company may, at its option enter into offsite development marketing contracts which depart from the standard terms of the "Sewer Main Extension Agreement" or "Sewer Main Extension Deposit Agreement". These marketing agreements shall become effective 30 days after the Company has filed a copy thereof with the Pennsylvania Public Utility Commission, or in the event that the Commission institutes an investigation, at such time as the Commission grants its approval thereof.

PENNSYLVANIA-AMERICAN WATER COMPANY

RULES AND REGULATIONS

Section I- Service Continuity

1. **Regularity of Service:** The Company may, at any time, shut off service in case of accident or for the purpose of making connections, alterations, repairs or changes, or for other reasons. The Company will, pursuant to Commission regulations at 52 Pa. Code '67.1 and as circumstances permit, notify customers to be affected by service interruptions.

2. **Liability for Damages:**

(a) **Limitation of Damages for Service Interruptions:** The Company's liability to a customer for any loss or damage from any excess or deficiency in the wastewater collection service due to any cause other than willful misconduct or negligence by the Company, its employees or agents shall be limited to an amount no more than the Customer charge or minimum bill for the period in question. The Company will undertake to use reasonable care and diligence in order to prevent and avoid interruptions and fluctuations in service, but cannot and does not guarantee that such will not occur.

(b) **Responsibility for Customer Facilities:** The Company shall not be liable for any loss or damage caused by reason of any break, blockage, leak or other defect in a Customer's service line, fixtures or other installations, except where the damage is a result of the negligence or willful misconduct of the Company, its employees or agents. The Company shall in no event be responsible for maintenance of, or for damage done by sewage escaping from a blockage of the customer's service line or any other pipe or fixture, or from any other cause occurring to any premise or within any house or building.

(c) When the Company incurs costs and the blockage or defect is determined to be on the customer's service line, the Company may request reimbursement and the Customer is responsible to reimburse the Company for associated costs.

PENNSYLVANIA-AMERICAN WATER COMPANY

RULES AND REGULATIONS

Section J– Waivers

The Company may, at its sole discretion, waive any of the Rules contained herein that operate for the benefit of the Company; provided, that no such waiver will be valid unless in writing and signed by an authorized representative of the Company, and provided that no waiver will be allowed where the waiver would constitute a violation of the Public Utility Code, the regulations of the Commission or of any other applicable statute, law or regulation.

Section K– Amendment of Commission Regulations

Whenever Commission regulations in Title 52 of the Pennsylvania Code are duly amended in such a way as would produce a difference between Commission regulations and this tariff, this tariff is deemed to be amended so as to be consistent with the amendments to the regulations, except that if application of the amendment to Title 52 is discretionary, this tariff will remain unchanged.

PENNSYLVANIA-AMERICAN WATER COMPANY

RULES AND REGULATIONS

Section L. Privilege to Investigate/Right of Access

The Company's authorized representatives shall have the right of access at all reasonable times to all parts of any premises connected with the system, including meters, service connections and other property owned by it on the premises of the Customer, for the purpose of examining and inspecting connections and fixtures, including the water and/or wastewater metering arrangement, for disconnecting service for any proper cause, or for purposes of replacement, maintenance, operation or repair thereof.

PENNSYLVANIA-AMERICAN WATER COMPANY

RULES AND REGULATIONS

Section M – MAIN EXTENSIONS FOR BONA FIDE SERVICE APPLICANTS

General Provisions

(A)(1) The Company will extend existing sewer mains for a Bona Fide Service Applicant making application for sewer service, other than temporary or seasonal service, under, and pursuant to, these Rules and Regulations, to commence immediately upon installation of the Street Service Connection.

(2) When the costs of the main extension exceed the Company Contribution as defined in Subsection (D), then such extension will be made under and pursuant to the terms of an Extension Deposit Agreement for Bona Fide Service Applicant, as hereinafter set forth, and subject to the applicable provisions of these Rules and Regulations. The construction of facilities to serve such Bona Fide Service Applicant will not commence until an Extension Deposit Agreement for Bona Fide Service Applicant has been executed and all applicable terms and conditions therein have been satisfied by the Applicant.

(3) When an extension is requested or required to serve a Bona Fide Service Applicant requiring Special Utility Service, construction of the extension or of any facilities needed to provide such Special Utility Service will not commence until a Special Utility Service Agreement has been executed and all applicable terms and conditions therein have been satisfied by the Applicant including, but not limited to, paying the requisite sum of money for construction of the facilities needed to furnish Special Utility Service, in accordance with the Preliminary Memorandum to such Special Utility Service Agreement.

(B) The Company shall have exclusive right to determine the type and size mains to be installed and the other facilities required to render adequate service. If a Bona Fide Service Applicant desires any facilities other than those facilities determined by the Company to be required to render adequate service, those other facilities will be installed by, owned by, maintained by, and will become the sole responsibility of the Bona Fide Service Applicant.

(C) In determining the length of and necessity for any extension required pursuant hereto, the terminal point of such extension shall, in all cases, be at the point in the curb line which is equidistant from the side property lines of the last lot for which sewer service is requested, except as provided in Paragraph B above wherein it may be necessary to extend beyond the last lot and connect to an existing main to provide adequate and reliable sewer service. A street service connection will be provided only when Customer service lines from the curb to the premises to be served are laid in a straight line at right angles to the curb line.

PENNSYLVANIA-AMERICAN WATER COMPANY

RULES AND REGULATIONS

Section M –MAIN EXTENSIONS FOR BONA FIDE SERVICE APPLICANTS (cont'd)

(D) For the purposes of this rule:

(1) "Bona Fide Service Applicant" shall mean a person or entity applying for General Sewer Service to an existing structure for which a valid occupancy permit has been issued if such structure is within the Company's certificated service territory and is either: (1) a primary residence of the Applicant; or (2) a place of business. An Applicant shall not be deemed a Bona Fide Service Applicant if such Applicant is requesting sewer service to: (1) a building lot or subdivision; or (2) a primary residence if such primary residence was constructed, or the request for sewer service was made, as part of a plan for the development of a residential subdivision; or (3) sewer service for temporary or seasonal services. To become a Bona Fide Service Applicant, a person or entity must file a signed application for a new Street Service Connection to qualifying premises, extend the necessary customer service line to the curb line of premises, and request sewer service to begin immediately following installation of the Street Service Connection. If the Company shall be delayed or prevented from installing the Street Service Connection for a period of one (1) year or more from the date of application, the Bona Fide Service Applicant shall have the right to withdraw the Application for Service.

(2) "Company Contribution" shall mean that portion of the main extension costs which the Company will fund based upon the following formula:

Average Annual Revenue	\$ _____
Minus	
Operation and Maintenance Expenses	\$ _____
Subtotal	\$ _____
Divided by	
Depreciation Rate and Weighted Cost of Debt	_____ %
Company Investment	\$ _____

The Bona Fide Service Applicant will be required to pay one-third of the Customer Contribution prior to the commencement of any work by the Company. The Customer Contribution will be an amount equal to the difference between the Company Contribution and the cost of the main extension and applicable interest charges. After the initial payment any remainder will be amortized over thirty-six (36) equal monthly installments beginning with the Bona Fide Service Applicant's first bill for sewer service. The Company will also provide information to the applicant on financial institutions that may offer financing to the Bona Fide Service Applicant for the line extension.

(a) The Average Annual Revenue for residential customers with a 5/8" water meter shall be calculated based upon the average residential consumption for customers with a 5/8" water meter used to determine rates approved by the Pennsylvania Public Utility Commission in the Company's last approved general rate increase. Consumption for residential customers with larger water meters will be determined by selecting up to twenty (20) existing customers with similar water meter sizes, as available, which have received service for at least twelve (12) months prior to the date of application, and applying the Company's latest approved rates to the annual average consumption of those customers.

PENNSYLVANIA-AMERICAN WATER COMPANY**RULES AND REGULATIONS****Section M – MAIN EXTENSIONS FOR BONA FIDE SERVICE APPLICANTS (cont'd)**

(b) The Average Annual Revenue for Commercial, Industrial and Municipal customers shall be calculated by selecting up to twenty (20) existing, similar commercial, industrial or municipal ratepayers, as available, which have received service for at least twelve (12) months prior to the date of application, to determine the average consumption to be used in calculating the Company Contribution.

(c) Operation and Maintenance Expenses shall be the Company's average annual operation and maintenance costs associated with serving an additional customer.

(d) The depreciation rate shall be the Company's depreciation rate for the facilities to be installed as determined in the Company's last approved general rate increase filing.

(e) The weighted cost of debt shall be the Company's long-term debt costs as determined in the Company's last approved general rate increase.

(3) "General Sewer Service" shall mean basic residential sewer service or sewer service for general commercial or municipal purposes but excluding, without limitation, sewer service for seasonal or temporary uses and sewer service solely for sprinkler systems or for any other fire protection use.

(4) "Special Utility Service" shall mean any residential or business service which exceeds that required for ordinary residential purposes. By way of illustration but not limitation, Special Utility Service shall include: the installation of facilities such as oversized mains, lift stations, additional plant capacity or pretreatment facilities required as necessary to adequately treat or convey flows, or service to large sewer producing commercial and industrial applicants. An otherwise Bona fide applicant requesting service which includes a special utility service component is entitled to a Bona fide applicant status, including the corresponding contribution toward the costs of the line extension which do not meet the special utility service criteria.

(5) "Street Service Connection" shall mean a pipe with appurtenances used to conduct sewer from a collection main of the Company to the curb line of the premises.

(E) (1) Street service supplying a premise shall not pass through or across any premises or property other than that to be supplied, except as provided in (E) (2). No sewer pipes or plumbing in any premises shall be extended therefrom to adjacent or other premises. Street service connections will not be permitted to cross intervening properties unless there is no other way in which service can be provided and appropriate easements are obtained. Only service applicant(s) owning property in fee which directly abuts a street wherein there is an existing main of the Company will be permitted to attach to the Company's service line for the purpose of receiving sewer service therefrom, unless appropriate easements are obtained pursuant to Subsection(2) below. It is understood that such property owned in fee by the said service applicant(s) shall be a complete standard building lot which complies with the existing zoning laws and regulations of the municipality in which such property is located. It is further understood that if such property owned in fee by a service applicant(s) is subsequently sold, the purchaser of such property will be entitled to receive sewer service upon compliance with all of the provisions of this tariff, but that the seller of such property shall only be entitled to continue to receive service if such seller complies with all of the provisions of this tariff.

PENNSYLVANIA-AMERICAN WATER COMPANY**RULES AND REGULATIONS****Section M – MAIN EXTENSIONS FOR BONA FIDE SERVICE APPLICANTS (cont'd)**

(2) A residential service applicant(s) may obtain a recorded easement or right-of-way that runs with the land, of at least fifteen (15) feet in width connecting the property to be served to the street wherein the Company's main is located. Such easement or right-of-way shall not cross multiple properties. The residential service applicant(s) shall present the Company with a certified copy of a duly recorded instrument which (a) describes the easement or right-of-way by metes and bounds, (b) gives the easement in perpetuity to the heirs, successors and assigns of said residential service applicant(s), (c) grants access to the customer or company service line for purposes of repair and replacement, and (d) is recorded in the County Office of the Recorder of Deeds.

(F) Where substantial public need exists and the public health and safety may be compromised by the absence of a public sewer supply in a portion of the Company's authorized service territory, the Company, subject to the Commission's prior approval, may install main extensions and Special Utility Service facilities without the payment of the Customer Contribution that would otherwise be required under subparagraphs (A)(3) and (D)(2), respectively of Section M.

PENNSYLVANIA-AMERICAN WATER COMPANY

Calculation of Company Funded Portion of Main Extensions
(For Illustrative Purposes Only)

Average Annual Revenue	\$340
minus	
Operation and Maintenance Expenses	\$102
<u>Subtotal</u>	<u>\$238</u>
Divided by	
Depreciation Rate (Mains Only) and Weighted Debt Costs	6.08%
<u>Total</u>	<u>\$3,914</u>

PENNSYLVANIA-AMERICAN WATER COMPANY

RULES AND REGULATIONS

Section N – EXTENSION DEPOSIT AGREEMENT FOR BONA FIDE SERVICE APPLICANT

THIS AGREEMENT entered into this _____ day of _____, 20____, by and between Pennsylvania-American Water Company hereinafter called the "COMPANY," and _____ hereinafter called the "BONA FIDE SERVICE APPLICANT."

WHEREAS, the BONA FIDE SERVICE APPLICANT desires extension of the sewer mains of the COMPANY, as hereinafter described;

NOW, THEREFORE, this agreement WITNESSETH:

FIRST: THE COMPANY contracts and agrees to lay the sewer main(s) (and other facilities, if any) as shown in red on the diagram hereto attached and made a part hereof described and located as follows:

(LEAVE SPACE FOR DESCRIPTION)

SECOND: It is expressly understood and agreed that if the COMPANY shall be delayed or prevented from installing the sewer main (s) (and other facilities, if any) hereinabove described because of its failure to secure pipe or other construction materials, or for any other causes beyond its control, such failure or delay in performance shall be excused; provided, however, if such failure or delay in performance shall extend for a period of more than one (1) year from the date thereof, the BONA FIDE SERVICE APPLICANT shall have the right to cancel and terminate this agreement on thirty (30) days' written notice to the COMPANY, and thereafter both parties shall be relieved of all duties and obligations arising hereunder. But this right to cancel and terminate by the BONA FIDE SERVICE APPLICANT shall not be invoked if the COMPANY has received the construction material, in which event the COMPANY shall have the obligation to prosecute the work diligently to its completion.

THIRD: The BONA FIDE SERVICE APPLICANT hereby agrees, upon notice from the COMPANY that it is prepared and able to go forward with the work provided in Paragraph FIRST hereof, to pay for the actual costs of extending the facilities as provided in Paragraph FIRST hereof, by depositing an amount in cash equal to (1) the Estimated Cost less (2) the Company Contribution. Items (1) and (2) are to be determined as follows:

(1) The Estimated Cost shall be the estimated cost of the extension, including the estimated cost of said main(s) and the estimated cost of any other facilities which the COMPANY shall have determined are required to render adequate service.

PENNSYLVANIA-AMERICAN WATER COMPANY**RULES AND REGULATIONS****Section N – EXTENSION DEPOSIT AGREEMENT FOR BONA FIDE SERVICE APPLICANT (cont'd)**

(2) The Company Contribution shall be a credit as determined by the following formula:

Average Annual Revenue	\$ _____
Minus	
Operation and Maintenance Expenses	\$ _____
Subtotal	\$ _____
Divided by	
Depreciation Rate and Weighted Cost of Debt	_____ %
Total	\$ _____

multiplied by the number of bona fide service applicants who will be directly served by the extension.

The BONA FIDE SERVICE APPLICANT agrees to pay at least one-third of the deposit prior to the commencement of construction of the extension, and the remainder of the deposit plus applicable interest charges in thirty-six (36) equal monthly installments beginning with BONA FIDE SERVICE APPLICANT'S first bill for sewer service. Interest will be charged on the unpaid portion each month, equal to the monthly portion of the embedded cost of long-term debt recognized in the Company's last approved general rate increase.

Upon such written notice, a Preliminary Memorandum in the form attached shall be prepared and signed by both parties showing the deposit required in accordance with foregoing provisions. Upon completion of the installation of the extension, a Final Memorandum in the form attached shall be prepared and signed by both parties showing the deposit required based on the same calculations as set forth above but by using the actual cost of the extension, including the actual installation costs of the mains and other facilities, for the Estimated Cost and calculating the Applicable Credit. If the deposit shown to be due on the Final Memorandum differs from that shown on the Preliminary Memorandum, the APPLICANT will deposit any additional amount shown to be due or the COMPANY will refund to the APPLICANT any excess amount shown to have been deposited. Any additional amount of required deposit must be made by the APPLICANT to the COMPANY before the granting of refunds to the APPLICANT.

FOURTH: The COMPANY hereby agrees to refund to the BONA FIDE SERVICE APPLICANT during the period of ten (10) years from actual date of deposit as shown on the Preliminary Memorandum a Per-Customer Refund Amount for each additional BONA FIDE SERVICE APPLICANT for whom a street service connection shall be directly attached to such main extension, as distinguished from extensions or branches thereof; provided however, that the total amount refunded shall not exceed the amount of the original deposit by the BONA FIDE SERVICE APPLICANT to the COMPANY as of the date of the refund, and further provided that, if there is an unpaid balance owed then the Per-Customer Refund Amount shall first be deducted from the unpaid balance. All or any part of the deposit not refunded within said 10-year period shall become the property of the COMPANY. The Customer Refund Amount shall be the Company contribution divided by the number of customers connected to the initial main extension.

FIFTH: The BONA FIDE SERVICE APPLICANT may request refunds under Paragraph FOURTH, once in each Calendar quarter, furnishing the COMPANY, at such time, a listing of additional bona fide service applicants; however, failure on the part of the BONA FIDE SERVICE APPLICANT to make such request shall not constitute a waiver of any rights hereunder or relieve the COMPANY of the obligation to make refunds with reasonable promptness.

PENNSYLVANIA-AMERICAN WATER COMPANY

RULES AND REGULATIONS

Section N – EXTENSION DEPOSIT AGREEMENT FOR BONA FIDE SERVICE APPLICANT (cont'd)

SIXTH: The ownership of the sewer main(s) and other facilities installed hereunder shall at all times be with the COMPANY, its successors and assigns.

SEVENTH: This agreement shall be valid and binding on the COMPANY only when executed by its duly authorized representative.

EIGHTH: This agreement shall be binding upon the heirs, executors, administrators, successors and assigns of the respective parties.

NINTH: Any notice given hereunder shall be deemed sufficient if in writing and sent by registered mail to the COMPANY at

(Address of COMPANY)

and to the BONA FIDE SERVICE APPLICANT at

(Address of BONA FIDE SERVICE APPLICANT)

Issued:

Effective:

TENTH: This agreement is entered into pursuant to the legally established Rules and Regulations of the COMPANY, and the words, phrases, and terms hereof are to be understood and interpreted in conformity with said Rules and Regulations, which are hereby incorporated herein by reference.

Executed in triplicate by the parties hereto on the date first above written.

WITNESS:

PENNSYLVANIA-AMERICAN WATER COMPANY

BY: _____

Title: _____

WITNESS:

BONA FIDE SERVICE APPLICANT:

PENNSYLVANIA-AMERICAN WATER COMPANY**RULES AND REGULATIONS****Section O- SPECIAL UTILITY SERVICE**

THIS AGREEMENT entered into this ____ day of _____, 20____, by and between Pennsylvania-American Water Company hereinafter called the "COMPANY," and _____ hereinafter called the "APPLICANT."

WHEREAS, the APPLICANT desires Special Utility Service, as defined in Section M(4) of the Company's tariff and as hereinafter described;

NOW, THEREFORE, this agreement WITNESSETH:

FIRST: THE COMPANY contracts and agrees to construct the facilities needed to furnish Special Utility Service shown in red on the diagram hereto attached and made a part hereof and described and located as follow:

(LEAVE SPACE FOR DESCRIPTION)

SECOND: It is expressly understood and agreed that if the COMPANY shall be delayed or prevented from installing facilities hereinabove described because of its failure to secure construction materials, or for any other causes beyond its control, such failure or delay in performance shall be excused; provided, however, if such failure or delay in performance shall extend for a period of more than one (1) year from the date thereof, the APPLICANT shall have the right to cancel and terminate this agreement on thirty (30) days' written notice to the COMPANY, and thereafter both parties shall be relieved of all duties and obligations arising hereunder. But this right to cancel and terminate by the APPLICANT shall not be invoked if the COMPANY has received the construction material and the APPLICANT has made the deposit as hereinafter required, in which event the COMPANY shall have the obligation to prosecute the work diligently to its Complete on.

THIRD: The APPLICANT hereby agrees to pay to the COMPANY, upon notice from the COMPANY that it is prepared and able to go forward with the work provided in Paragraph First hereof, an amount in cash equal to the Estimated Cost. The Estimated Cost shall be the estimated cost including material, labor and overheads of the facilities hereinabove described for providing Special Utility Service.

Upon such written notice, a Preliminary Memorandum in the form attached shall be prepared and signed by both parties showing the payment required in accordance with foregoing provisions. Upon completion of the Memorandum in the form attached shall be prepared and signed by both parties showing the payment required based on the same calculation as set forth above but by using the actual installation cost of the facilities, for the Estimated Cost. If the payment shown to be due on the Final Memorandum differs from that shown on the Preliminary Memorandum, the APPLICANT shall pay any additional amount shown to be due or the COMPANY will refund to the APPLICANT, without interest, any excess amount shown to have been paid, it being the intent of this agreement that the payment required shall be based on actual installation cost. If the actual installation cost exceeds the payment required as shown on the Preliminary Memorandum, the additional amount of required payment must be made by the APPLICANT to the COMPANY before installation of the facilities, a Final service to the APPLICANT commences.

PENNSYLVANIA-AMERICAN WATER COMPANY

RULES AND REGULATIONS

Section O- SPECIAL UTILITY SERVICE (cont'd)

FOURTH: The ownership of the facilities installed hereunder shall at all times be with the COMPANY, its successors and assigns.

FIFTH: This agreement shall be valid and binding on the COMPANY only when executed by its duly authorized representative.

SIXTH: This agreement shall be binding upon the heirs, executors, administrators, successors and assigns of the respective parties.

SEVENTH: Any notice given hereunder shall be deemed sufficient if in writing and sent by registered mail to the COMPANY at

(Address of Company)

and to the Applicant at _____

(Address of APPLICANT)

EIGHTH: This agreement is entered into pursuant to the legally established Rules and Regulations of the COMPANY, and the words, phrases, and terms thereof are to be understood and interpreted in conformity with said Rules and Regulations, which are hereby incorporated herein by reference.

Executed in triplicate by the parties hereto on the date first above written.

PENNSYLVANIA-AMERICAN WATER COMPANY

WITNESS:

BY: _____

Title: _____

WITNESS:

APPLICANT:

PENNSYLVANIA-AMERICAN WATER COMPANY

RULES AND REGULATIONS

Section O- SPECIAL UTILITY SERVICE (cont'd)

PRELIMINARY MEMORANDUM

This Preliminary Memorandum is executed by the parties hereto under and pursuant to the provisions of Paragraph THIRD of a certain agreement in writing between the parties entered into on the ____ day of _____, 20____, for the installation by the COMPANY of certain facilities therein described. It is, therefore, agreed and stipulated:

(a) Estimated Cost of Facilities for Special Utility Service (exclusive of the cost of the main and appurtenances, street service connection and meter) \$ _____

This Preliminary Memorandum shall be attached to the original agreement in accordance with the provisions of Paragraph THIRD thereof.

Dated: _____
Date of Payment

PENNSYLVANIA-AMERICAN WATER COMPANY

WITNESS:

BY: _____

Title: _____

WITNESS:

APPLICANT:

PENNSYLVANIA-AMERICAN WATER COMPANY

RULES AND REGULATIONS

Section O- SPECIAL UTILITY SERVICE (cont'd)

FINAL MEMORANDUM

This Final Memorandum is executed by the parties hereto under and pursuant to the provisions of Paragraph THIRD of a certain agreement in writing between the parties entered into on the ____ day of _____, 20____, for the installation by the COMPANY of certain facilities therein described. It is, therefore, agreed and stipulated:

- (a) Actual Cost of Facilities \$ _____
for Special Utility Service
exclusive of the cost of the
main and appurtenances, street
service connection and meter)

This Final Memorandum shall be attached to the original agreement in accordance with the provisions of Paragraph THIRD thereof.

Dated: _____
Date of Payment on
Preliminary Memorandum

PENNSYLVANIA-AMERICAN WATER COMPANY

WITNESS:

BY: _____

Title: _____

WITNESS:

APPLICANT:

PENNSYLVANIA-AMERICAN WATER COMPANY

RULES AND REGULATIONS

Section P - Grinder Pumps for Paint-Elk Wastewater

This section applies to those customers from the former Paint-Elk Joint Sewer Authority (PEJSA) whose service addresses are listed on updated Schedule 1.1 of the acquisition closing documents. Original Schedule 1.1 from the Purchase Agreement was included in PAWC's Application filing on 12/6/2013, which was approved by the Public Utility Commission's Order entered on July 24, 2014, at Docket Number A-2013-2395998.

1. Those customers within the Former PEJSA whose addresses do not appear on Schedule 1.1 of the Purchase Agreement own their Customer service line in its entirety, including the grinder pump on their Customer service line should one exist.
2. For those customers within the Former PEJSA whose addresses appear on Schedule 1.1 of the Purchase Agreement, PAWC shall own and maintain the grinder pump units for a period of three years from the date of Closing.
3. PAWC shall be responsible to repair/replace any malfunctioning grinder pumps during this three year period. The decision to repair/replace shall be made in PAWC's sole discretion. Any customer may indicate to PAWC that it does not wish to have this service and such services shall cease upon notification from the customer and the ownership of the grinder pump unit shall revert to the customer.
4. The customer must agree to allow PAWC the necessary access to maintain the grinder pump unit or PAWC's obligation as to that particular customer shall cease without any further obligation from PAWC.
5. Three years from the date of Closing, PAWC's obligation to operate and maintain the grinder pump units shall cease. At that time, PAWC will provide written notification to the addresses listed on Schedule 1.1 that ownership of the grinder pump units has transferred to the customer and all responsibilities related to the grinder pump unit reside with the customer.

PENNSYLVANIA-AMERICAN WATER COMPANY

RULES AND REGULATIONS

Section Q – Liability of Company (General)

1. The liability of the Company for any loss or damages due to any negligent act of omission or commission, by the Company, shall be limited to and in no event exceed an amount equivalent to 1/4 the average charge of 4 billing periods to the Customer for the period of service during which such deficiency has occurred. Such average shall be determined by reference to the billed charges to the Customer for the four billing periods immediately prior to the billing period during which the loss or damage occurred.

(C)
2. In any legal action where a court does not recognize, or is being asked to interfere with or hamper, the jurisdiction of the Commission to authorize limitations of liability or to exclusively determine whether the service and facilities of the Company are in conformity with the regulation and Order of the Commission, the Company may certify to the Commission the question of the appropriateness of such court action by filing a petition for declaratory judgment with the Commission.
3. Notwithstanding any provision in this tariff to the contrary, the Company shall not be liable in any action where the loss or damage involves an act of God or does not involve a duty of the Company, including breaks or leaks on facilities that are not owned by the Company, such as breaks, leaks, defects or condition in the Customer's own service line, meter vault, pressure reducing valve, back flow prevention device, check valve, pressure relief valve, or any other control valve, internal plumbing or fixture, or due to the materials out of which those facilities are made. Further, the Company shall not be liable in any action where the loss or damage does not involve a breach of a duty of the Company, including where the Company does not receive actual notice, either written or oral, that a Company facility (located within the public right-of-way, in a sidewalk or on a Customer's property) is in need of repair, such as the condition or elevation of a curb box or valve box that is not proven to have been in that condition at the time of installation or that is caused by a plumber, developer, or other person or event.

(C) means Change

PENNSYLVANIA-AMERICAN WATER COMPANY**RULES AND REGULATIONS****Section R- Wastewater Control Regulations**

1. **Applicability:** These provisions shall apply throughout the Company's service territory. For those systems where an Industrial Pretreatment Program (IPP) is required by the United States Environmental Protection Agency (EPA), Pennsylvania Department of Environmental Protection (DEP) or by the Company, all applicable customers shall comply with such IPP regulations. For a Commercial or Industrial Customer that is also subject to the provisions of an IPP of this tariff, to the extent a conflict exists between the provisions of this Section and the provisions of the applicable IPP, the terms of the IPP shall control. .
2. **General Prohibitions:**
 - (a) No storm water from pavements, area ways, runoff basins, roof runoff water, foundation drains, subsurface drains, water from springs, cooling water, basement sump pumps, unpolluted industrial or commercial process water or other sources shall be admitted to the Company Sanitary Sewer.
 - (b) The discharge of garbage to the Sanitary or Combined Sewer is expressly prohibited. Properly shredded biodegradable garbage may be discharged into the Sanitary or Combined Sewer with no particle greater than one-half inch in dimension.
3. **Prohibited Discharges:** The Company reserves the right to refuse connection to its Sanitary or Combined Sewer and/or to compel the discontinuance of the use of any system, or to require pre-treatment of Wastes by any Customer, in order to prevent the discharge of any Wastes to the Sanitary or Combined Sewer system which may be deemed harmful to the Sanitary or Combined Sewer system, or to have an adverse effect on the sewage treatment processes. Except from the written consent of the Company, there shall be excluded from the sewage system but not limited to, any wastes having suspended solids and Wastes having any or all of the following characteristics:
 - (a) Wastes containing any gasoline, naphtha, fuel, oil or other liquids, solids or gases which by reason of their nature or quality may cause fire or explosion or be in any other way injurious to persons, the structures of the wastewater system or its operation.
 - (b) Wastes having a temperature in excess of 120 degrees F. or less than 32 degrees F that enters the Sanitary or Combined Sewer or Wastes entering the plant that increase the temperature of the Wastewater at the headworks of the plant to exceed 104 degrees F.
 - (c) Wastes having a pH lower than 6.0 or higher than 9.0, or having any corrosive property capable of causing damage or hazards to structures, equipment or personnel of the wastewater system.
 - (d) Wastes containing any noxious or malodorous gas or substance that either singly or by interaction with sewage or other wastes is likely in the opinion of the Company to create a public nuisance or hazard to life or prevent entry to sewers for their maintenance and repair.

PENNSYLVANIA-AMERICAN WATER COMPANY**RULES AND REGULATIONS****Section R- Wastewater Control Regulations (cont'd)**

- (e) Wastes containing ashes, cinders, sand, mud, straw, shavings, metal, glass, rags, feathers, tar, plastics, wood, hair, chemical or paint residues, greases, paunch, manure, dairy products, cotton, wool, plastic or other fibers, lime, slurry or any other solid or viscous material of such character or in such quantity as in the opinion of the Company may cause an obstruction to the flow in sewers or otherwise interfere with the proper operation of the sewer system.
- (f) Wastes containing insoluble, non-flocculent substances having a specific gravity in excess of 2.65.
- (g) Wastes containing soluble substances in such concentrations as to cause the specific gravity to be greater than 1.1.
- (h) Wastes containing any substances which may affect the effluent and may cause violation of the National Pollutant Discharge Elimination System Permit.
 - (i) Wastes containing other matter detrimental to the operation of a sewage treatment plant or Sanitary or Combined Sewers causing erosion, corrosion or deterioration in sewers, equipment and structures of a sanitary or sewage treatment plant.
 - (j) Wastes containing fats, wax, tar, grease or oil of petroleum origin, whether emulsified or not, in excess of one hundred mg/L, or petroleum oil, non biodegradable cutting oil or petroleum products of mineral oil origin in amounts that will cause interference or pass through at the wastewater treatment facilities.
 - (k) Wastes containing an average concentration of oils and greases, of the Hydrocarbon variety or any Freon extractables which are not biodegradable in excess of 10 mg/L.
 - (l) Wastes containing more than 10 mg/L of any of the following gases: hydrogen sulfide; sulfur dioxide; nitrous oxide; or any of the halogens.
 - (m) Wastes containing a toxic or poisonous substance, in a sufficient quantity to injure or interfere with any sewage treatment process, constitute a hazard to humans or animals or create any hazard in the sewer system operation or exceed the limitation set forth in a National Categorical Pretreatment Standard. Toxic pollutants or substances shall include but not limited to Wastewater containing cyanide, chromium, cadmium, mercury, copper, nickel, or materials listed as hazardous materials.
 - (n) Any waste containing toxic substances in quantities sufficient to interfere with the biochemical/biological processes of the sewage treatment works or that will pass through the sewage treatment works and exceed the state and/or federal requirements in respect thereof.
 - (o) Any waste containing radioactive isotopes or other radioactive materials.

PENNSYLVANIA-AMERICAN WATER COMPANY**RULES AND REGULATIONS****Section R- Wastewater Control Regulations (cont'd)**

- (p) Sludges resulting from the treatment of concentrated solutions that are not acceptable for discharge to the Sanitary or Combined Sewer.
- q) Waste introduced into the Sanitary or Combined Sewer with any pollutants which cause pass through or interference; whether or not the customer is subject any other national, state, or local pretreatment standards or requirements.
- r) Waste containing any color which may not be removed in the wastewater treatment process.

Effluent limitations promulgated as categorical standards, 40 C.F.R. Chapter 1, Subchapter N and 40 C.F.R. 403.6 shall apply in any instance where they are more stringent than those in this section.

The local limits in this section may be supplemented with more stringent limitations if the Company determines that the limitations in subsection (a) through (p) above may not be sufficient to protect the operation of the sewerage system or to enable the water pollution control plant to comply with water quality standards or effluent limitations specified in the Company's NPDES permit.

- 4. **Disposal of Wastes From Septic Tanks and Cesspools:** No person shall dispose of wastes from septic tanks, cesspools, or other such sources of sanitary sewage to the Company's Sanitary or Combined Sewer, except as designated by the Company.
- 5. **Penalties:** The Company reserves the right to terminate water and/or wastewater service for violation of any provision of these regulations, subject to PUC rules and regulations.
- 6. **Damages:** In the event of any damage to the Company's wastewater system caused by a Customer, or a Customer's representative, such damage shall be immediately reported to the Company and said Customer shall reimburse the Company for the costs of such repairs, testing, consulting and all other costs associated with the damage. Any user violating any of the provisions of these Rules and Regulations shall become liable to the Company for all expenses, losses, or damages occasioned by the Company by reason of such violation, whether incidental or consequential.

PENNSYLVANIA-AMERICAN WATER COMPANY**RULES AND REGULATIONS****Section S – Stormwater Connections to Sanitary or Combined Sewer System:**

(a) No person shall install any new connection to discharge stormwater or groundwater drainage to a Sanitary or Combined Sewer, or undertake any modification that increases the flow of stormwater or groundwater being discharged via an existing connection to the Sanitary or Combined Sewer, without applying for and obtaining a Connection Permit from the Company. Consideration and issuance of any Connection Permit is subject to the following:

(1) No new or increased discharge of stormwater or groundwater to the Sanitary or Combined Sewer will be permitted if separate stormwater system facilities or receiving streams exist in reasonable proximity to the proposed connection to the Sanitary or Combined Sewer. The person seeking a Connection Permit must demonstrate to the satisfaction of the Company that the discharge stormwater or groundwater flows to anywhere but to the Sanitary or Combined Sewer is not (i) technically or economically feasible, or (ii) permissible under applicable environmental regulations.

(2) No new or increased discharge of stormwater or groundwater will be allowed unless there is adequate capacity in the Sanitary or Combined Sewer system, and such flows can be managed in compliance with all laws and requirements applicable to the Sanitary or Combined Sewer system. When known or potential hydraulic capacity overloads may exist or may be created as the result of the proposed new or modified connection to the Sanitary or Combined Sewer, the Company reserves the right to require a detailed hydraulic study of the affected portion of the Sanitary or Combined Sewer system. The work and costs associated with such study shall be paid for by the party seeking the Connection Permit.

(3) Any new or modified connection involving the discharge of stormwater or groundwater to the Sanitary or Combined Sewer shall comply with all applicable state regulations and municipal ordinances.

(4) In the case of new or modified connections from a property that is presently contributing stormwater or groundwater drainage to a Sanitary or Combined Sewer, the peak rate of discharge must be controlled. The peak rate of discharge to the Sanitary or Combined Sewer after development or improvement shall be no greater than 75% of the peak rate of discharge to the Sanitary or Combined Sewer prior to development or improvement under storm conditions up to a 100-year rainfall event. Stormwater peak discharge and runoff shall be determined through the use of: (A) the USDA NRCS Soil Cover Complex Method as set forth in Urban Hydrology for Small Watersheds, Technical Release No. 55 (USDA, 1986), with specific attention given to antecedent moisture conditions, flood routing, time of concentration, and peak discharge specifications included therein and in Hydrology National Handbook, Section 4 (USDA, 1985); (B) the USDA NRCS Technical Release No. 20; or (C) other procedures as approved by the Company. Refer to Pennsylvania Stormwater Best Management Practices Manual (363-0300-002) dated December 30, 2006.

(5) Except where specifically approved by the Company, all new sanitary sewer laterals and mains shall be separate from stormwater laterals and mains.

(b) If a connection to the Sanitary or Combined Sewer is permitted as provided in 5(a), (1) any facilities using the connection to the Sanitary or Combined Sewer shall utilize inlet structures equipped with devices to prevent solids and floatable debris from entering the Sanitary or Combined Sewer of a design approved by the Company; and (2) the connection shall be made to an existing or new manhole or other Company approved structure that complies with design standards prescribed by the Company.

(c) No downspout gutter shall be connected to the Sanitary or Combined Sewer.

PENNSYLVANIA-AMERICAN WATER COMPANY**RULES AND REGULATIONS****Section T – Industrial Pretreatment Program (Coatesville District) (IPP-C)**

This Section applies to Industrial and Commercial customers served under Rate Zone 1 and located in the Coatesville District area of the Company's service territory. All such customers shall comply with the "Coatesville District Industrial Pretreatment Program Regulations" ("IPP-C") and as may be amended by the Company or the Pennsylvania Department of Environmental Protection from time to time. The currently effective IPP-C will be made available on the Company's website.

Such customers shall be responsible for the charges and fees scheduled below related to the implementation, administration, and enforcement of the IPP-C, and for the additional costs for treatment of wastewaters from such customers who have excess loadings and characteristics. Fees under this Section are separate from and in addition to all other rates chargeable by the Company under this tariff.

The fees as set forth in Schedule IPP-C-1 below will be in effect for customers subject to the IPP-C. Terms are as defined by IPP-C.

SCHEDULE IPP-C-1**1.1 General Fees.**

1.1.1 Application for Service/Waste Survey - Each new commercial or industrial customer will be assessed a charge for the review of the Waste Survey Form attached to the Company's Application for Service Form.	\$50.00
1.1.2. Industrial Wastewater Discharge Permit Application or Permit Modification Application - Each customer determined to be a Significant Industrial User will be assessed a charge for the review of the Industrial Wastewater Discharge Permit application and for site inspection.	\$1,100.00
1.1.3. Industrial Wastewater Discharge Permit - Each customer required to submit an Industrial Wastewater Discharge Permit Application will be assessed a charge for the preparation of the Industrial Wastewater Discharge Permit that is specific to that customer, which may include, but is not limited to pretreatment, waste minimization and spill control requirements, local limits and other conditions required by the Company's IPP-C.	At Cost
1.1.4. Industrial Wastewater Discharge Permit Application for Renewal or Transfer - Each customer with a discharge permit will be assessed a charge for the review of the application for renewal or transfer of the permit. If changes are required to the permit, they will be done at cost as noted in Item #3 above.	\$250.00

PENNSYLVANIA-AMERICAN WATER COMPANY**RULES AND REGULATIONS****Section T – Industrial Pretreatment Program (Coatesville District) (IPP-C) (cont'd)****1.1 General Fees (cont'd)**

- 1.1.5. Facilities for Pretreatment, Accidental Discharge, Slug Control and or Monitoring** - Customers required to provide facilities for wastewater pretreatment and/or accidental/slug discharge or monitoring will be assessed a charge for the Company to review the plans and operating procedures required by the Company's IPP-C. At Cost
- 1.1.6. Monitoring Reports** - Customers will be assessed a charge for the Company to review each of the reports submitted as required by the Company's IPP-C. \$250.00
- 1.1.7. Facility Inspections** - Customers that require inspections by the Company for permitting, monitoring and compliance/noncompliance purposes will be assessed a charge for these services per each inspection. \$250.00
- 1.1.8. Sampling and Analysis** - Customers whose discharge requires the Company to perform or to arrange for compliance monitoring will be assessed a charge for each sampling event and laboratory analysis. This charge may include sampler rental and set-up, sample pick-up or delivery and lab report charges. At Cost
- 1.1.9. Noncompliance Repair or Maintenance** - Customers causing any violations that result in needed repairs or maintenance to the Company's Sewer System will be assessed a charge to reimburse the Company for its expenses. This charge may include but is not limited to, charges from haulers, cleaning crews, contractors, plumbers, excavations and vacuum sewer services. At Cost

1.2 Specific Fees.

1.21 In the event that the Company consents to accept into the Sanitary Sewer system Industrial/Commercial Wastes containing more than 300 milligrams per liter by weight (mg/L) of suspended solids and/or 300 mg/L of 5 day biochemical oxygen demand, otherwise prohibited under this Section, there is hereby imposed for such service in addition to the sanitary sewage quantity, a surcharge for the Suspended Solids and 5-day Biochemical Oxygen Demand (BOD5) contained in said wastes in excess of 300 mg/L, in accordance with the following schedule:

(i) \$0.10 per pound of BOD5 in excess of 300 mg/L. Calculated as: BOD5 in mg/L – 300 mg/l x Wastewater volume in million gallons x 8.34 x \$0.10/pound.

(ii) \$0.06 per pound of Total Suspended Solids (TSS) in excess of 300 mg/L. Calculated as: TSS in mg/L – 300 mg/l x Wastewater volume in million gallons x 8.34 x \$0.06/pound.

PENNSYLVANIA-AMERICAN WATER COMPANY

RULES AND REGULATIONS

Section T – Industrial Pretreatment Program (Coatesville District) (IPP-C) (cont'd)

1.2 Specific Fees (cont'd)

1.2.2 In the event the Company elects to accept Industrial/Commercial Wastes having a pH below 6.0 S.U. the total acid equivalent of such wastes, expressed as 100% sulfuric acid shall be considered as one pound of Suspended Solids. For purposes of calculating Surcharges, the total sum computed by adding the acid equivalent so determined to the actual Suspended Solids content shall be considered to be the Suspended Solids content of the acidic wastes. The charges for treatment of such acidic wastes shall be subject to the same Surcharges as above set forth for wastes containing excessive solids.

PENNSYLVANIA-AMERICAN WATER COMPANY**RULES AND REGULATIONS****Section U– Industrial Pretreatment Program (Scranton-Area) (All Service Areas under Rate Zones 1 (Except Coatesville), 2, 3, 7-Sadsbury and 8-Turbotville) (IPP-S) (C)**

This Section applies to Industrial and Commercial customers served throughout the Company's service territory under Rate Zone 1 of this tariff, except for the customers subject to Section T of this tariff pursuant to the provisions thereof, and Rate Zones 2, 3, 7-Sadsbury and 8-Turbotville of this tariff. (C)

All such customers shall comply with the "Industrial Pretreatment Program (Scranton-Area)" ("IPP-S") as required by and submitted to the Pennsylvania Department of Environmental Protection and as may be amended from time to time. The currently effective IPP-S will be made available on the Company's website.

Such customers shall be responsible for the charges and fees scheduled below related to the implementation, administration, and enforcement of the IPP-S, and for the additional costs for treatment of wastewaters from such customers who have loadings and characteristics that are in excess of Domestic Sewage as defined by the IPP-S. Pursuant to the IPP-S, IPP-S fees are set by this tariff. IPP-S fees are separate from and in addition to all other rates chargeable by the Company under this tariff.

The fees as set forth in Schedule IPP-S-1 below will be in effect for customers subject to the IPP-S. Terms are as defined by IPP-S.

SCHEDULE IPP-S-1**1.1. General Fees**

1.1.1. IWDP Application Fee: \$1,000.00

1.1.2. IWDP Transfer/Modification/Renewal Fee: \$250.00

1.1.3. Facility Inspection Fee: \$250.00 per inspection

1.1.4. Monitoring Report Review Fee: \$250.00 per monitoring report

1.1.5. Sampling and Analysis Fee: Actual cost of sampling and laboratory analysis plus 25% to cover administrative costs.

1.1.6. Accidental Discharge, Slug Control, and/or Monitoring Fee: Actual cost of response to accidental discharges or discharges of slugs loads, including but not limited to the costs incurred for any additional treatment or other actions required to manage such discharges, monitoring and response to such discharges, correction of any resulting contamination or other impacts to the Treatment Works, including the Collection System and Treatment Plant.

1.1.7. Compliance and Enforcement Fee - Administrative and Legal: Actual cost incurred by the Company for investigation and actions to address a User's non-compliance with the terms of this IPP or any IWDP.

1.1.8. Damage Repair: Actual cost for cleaning, repair, replacement and/or correction of any damage to the Treatment Works, including the Collection System and the Treatment Plant, caused or contributed to by a User's discharge.

(C) means Change

PENNSYLVANIA-AMERICAN WATER COMPANY**RULES AND REGULATIONS****Section U – Industrial Pretreatment Program (Scranton-Area) (All Service Areas under Rate Zones 1 (Except Coatesville), 2, 3, 7-Sadsbury and 8-Turbotville) (IPP-S) (cont'd) (C)****1.1. Specific Fees**

1.1.1. **Industrial Loading Fee** - applicable on a quarterly basis to discharges with loadings above typical Domestic Sewage loadings up to but not exceeding any applicable Local Limit or IWDP limit, based on sampling and analysis by the Company and sampling required to be reported by the User under an IWDP:

Quarterly Fee (\$) = $Q \times \{((\text{BOD5 Actual} - \text{BOD5 Domestic}) \times \text{BOD5 Cost Factor}) + ((\text{NH3-N Actual} - \text{NH3-N Domestic}) \times \text{NH3-N Cost Factor}) + ((\text{TSS Actual} - \text{TSS Domestic}) \times \text{TSS Cost Factor})\}$

Where:

BOD5 Actual = actual concentration of BOD5 in mg/l as measured by the Company or the Industrial User

BOD5 Cost Factor = Treatment cost for BOD5 for the system = 0.0045

BOD5 Domestic = 330 mg/l, the typical concentration in Domestic Sewage

NH3-N Actual = actual concentration of NH3-N in mg/l as measured by the Company or the Industrial User

NH3-N Cost Factor = Treatment cost for NH3-N for the system = 0.0063

NH3-N Domestic = 23 mg/l, the typical concentration in Domestic Sewage

Q = Total flow for the quarter measured in thousand gallons

TSS Actual = actual concentration of TSS in mg/l as measured by the Company or the Industrial User

TSS Cost Factor = treatment cost for TSS for the system = 0.0028

TSS Domestic = 350 mg/l, the typical concentration in Domestic Sewage

1.1.2. **Excess Loading Fee** - applicable to discharges with loadings that exceed a Local Limit or IWDP limit:

If in any monthly period, the loading of BOD5, NH3-N, or TSS exceeds a Local Limit or IWDP limit, then for the applicable parameter, in calculating the Industrial Loading Fee under §1.2.1, the BOD5 Cost Factor, NH3-N Cost Factor and/or TSS Cost Factor, applicable to the total loading of that parameter will be 125% of the value set forth in §1.2.1 to compensate for the additional administrative, oversight and management costs associated with managing such excessive loadings.

(C) means Change

PENNSYLVANIA-AMERICAN WATER COMPANY

RULES AND REGULATIONS

Section U – Industrial Pretreatment Program (Scranton-Area) (All Service Areas under Rate Zones 1 (Except Coatesville), 2, 3, 7-Sadsbury and 8-Turbotville) (IPP-S) (cont'd) (C)

1.2 Specific Fees (cont'd)

- 1.1.1. **Special Discharge Fee** - applicable to discharges with loadings or concentrations that exceed a Local Limit or IWDP limit and that impact sludge handling or disposal methods and costs, necessitate acquisition of nutrient credits, result in damages to the facility, or require extraordinary measures:

Fee = Actual cost incurred by the Company, including but not limited to: (1) additional costs of managing impacted sludge (including costs related to use of alternative disposal facilities, additional monitoring, etc.), (2) costs of acquiring nutrient credits to meet NPDES Permit cap limits; (3) costs of repairs to and restoration of the Treatment Works, including the Collection System and Treatment Plant; or (4) costs of implementing any other measures required to control, manage and address such excessive loadings or concentrations.

(C) means Change

Issued: July 24, 2019

Effective Date: July 25, 2019

PENNSYLVANIA-AMERICAN WATER COMPANY**RULES AND REGULATIONS****Section V – Industrial Pretreatment Program (McKeesport-Area) Compliance****(C)**

This Section applies to Industrial and Commercial customers served under Rate Zone 6 of this tariff. All such customers shall comply with the "Industrial Pretreatment Program (McKeesport-Area)" ("IPP-M") as required by and submitted to the Pennsylvania Department of Environmental Protection and as may be amended from time to time. The currently effective IPP-M will be made available on the Company's website.

Such customers shall be responsible for the charges and fees scheduled below related to the implementation, administration, and enforcement of the IPP-M, and for the additional costs for treatment of wastewaters from such customers who have loadings and characteristics that are in excess of Domestic Sewage as defined by the IPP-M. Pursuant to the IPP-M, IPP-M fees are set by this tariff. IPP-M fees are separate from and in addition to all other rates chargeable by the Company under this tariff.

The fees as set forth in Schedule IPP-M-1 below will be in effect for customers subject to the IPP-M Terms are as defined by IPP-M.

SCHEDULE IPP-M-1**1.1 General Fees**

- 1.1.1. IWDP Application Fee: \$1,000.00
- 1.1.2. IWDP Transfer/Modification/Renewal Fee: \$250.00
- 1.1.3. Facility Inspection Fee: \$250.00 per inspection
- 1.1.4. Monitoring Report Review Fee: \$250.00 per monitoring report
- 1.1.5. Sampling and Analysis Fee: Actual cost of sampling and laboratory analysis plus 25% to cover administrative costs.
- 1.1.6. Accidental Discharge, Slug Control, and/or Monitoring Fee: Actual cost of response to accidental discharges or discharges of slugs loads, including but not limited to the costs incurred for any additional treatment or other actions required to manage such discharges, monitoring and response to such discharges, correction of any resulting contamination or other impacts to the Treatment Works, including the Collection System and Treatment Plant.

(C) means Change

PENNSYLVANIA-AMERICAN WATER COMPANY**RULES AND REGULATIONS****Section V – Industrial Pretreatment Program (McKeesport-Area) Compliance (cont'd) (C)**

- 1.1.7. Compliance and Enforcement Fee - Administrative and Legal: Actual cost incurred by the Company for investigation and actions to address a User's non-compliance with the terms of this IPP or any IWDP.
- 1.1.8. Damage Repair: Actual cost for cleaning, repair, replacement and/or correction of any damage to the Treatment Works, including the Collection System and the Treatment Plant, caused or contributed to by a User's discharge.

1.2 Specific Fees

- 1.2.1 Industrial Loading Fee - applicable on a quarterly basis to discharges with loadings above typical Domestic Sewage loadings up to but not exceeding any applicable Local Limit or IWDP limit, based on sampling and analysis by the Company and sampling required to be reported by the User under an IWDP:

Quarterly Fee (\$) = $Q \times \{((\text{BOD5 Actual} - \text{BOD5 Domestic}) \times \text{BOD5 Cost Factor}) + ((\text{NH3-N Actual} - \text{NH3-N Domestic}) \times \text{NH3-N Cost Factor}) + ((\text{TSS Actual} - \text{TSS Domestic}) \times \text{TSS Cost Factor})\}$

Where:

BOD5 Actual = actual concentration of BOD5 in mg/l as measured by the Company or the Industrial User

BOD5 Cost Factor = Treatment cost for BOD5 for the system = 0.0045

BOD5 Domestic = 330 mg/l, the typical concentration in Domestic Sewage

NH3-N Actual = actual concentration of NH3-N in mg/l as measured by the Company or the Industrial User

NH3-N Cost Factor = Treatment cost for NH3-N for the system = 0.0063

NH3-N Domestic = 23 mg/l, the typical concentration in Domestic Sewage

Q = Total flow for the quarter measured in thousand gallons

TSS Actual = actual concentration of TSS in mg/l as measured by the Company or the Industrial User

TSS Cost Factor = treatment cost for TSS for the system = 0.0028

TSS Domestic = 350 mg/l, the typical concentration in Domestic Sewage

(C) means Change

PENNSYLVANIA-AMERICAN WATER COMPANY**RULES AND REGULATIONS****Section V – Industrial Pretreatment Program (McKeesport-Area) Compliance (cont'd) (C)**

- 1.2.2. Excess Loading Fee - applicable to discharges with loadings that exceed a Local Limit or IWDP limit:

If in any monthly period, the loading of BOD5, NH3-N, or TSS exceeds a Local Limit or IWDP limit, then for the applicable parameter, in calculating the Industrial Loading Fee under §1.2.1, the BOD5 Cost Factor, , NH3-N Cost Factor and/or TSS Cost Factor, applicable to the total loading of that parameter will be 125% of the value set forth in §1.2.1 to compensate for the additional administrative, oversight and management costs associated with managing such excessive loadings.

- 1.2.3. Special Discharge Fee - applicable to discharges with loadings or concentrations that exceed a Local Limit or IWDP limit and that impact sludge handling or disposal methods and costs, necessitate acquisition of nutrient credits, result in damages to the facility, or require extraordinary measures:

Fee = Actual cost incurred by the Company, including but not limited to: (1) additional costs of managing impacted sludge (including costs related to use of alternative disposal facilities, additional monitoring, etc.), (2) costs of acquiring nutrient credits to meet NPDES Permit cap limits; (3) costs of repairs to and restoration of the Treatment Works, including the Collection System and Treatment Plant; or (4) costs of implementing any other measures required to control, manage and address such excessive loadings or concentrations.

(C) means Change

Issued: December 27, 2017

Effective Date: January 1, 2018

PENNSYLVANIA-AMERICAN WATER COMPANY**RULES AND REGULATIONS****Section W – Industrial Pretreatment Program (Exeter-Area) Compliance****(C)**

This Section applies to Industrial and Commercial customers served under Rate Zone 9 of this tariff. All such customers shall comply with the "Industrial Pretreatment Program (Exeter)" ("IPP-E") as required by and submitted to the Pennsylvania Department of Environmental Protection and as may be amended from time to time. The currently effective IPP-E will be made available on the Company's website.

Such customers shall be responsible for the charges and fees scheduled below related to the implementation, administration, and enforcement of the IPP-E, and for the additional costs for treatment of wastewaters from such customers who have loadings and characteristics that are in excess of Domestic Sewage as defined by the IPP-M. Pursuant to the IPP-E, IPP-E fees are set by this tariff. IPP-M fees are separate from and in addition to all other rates chargeable by the Company under this tariff.

The fees as set forth in Schedule IPP-E-1 below will be in effect for customers subject to the IPP-E Terms as defined by IPP-E.

SCHEDULE IPP-E-1**1.1 General Fees**

- 1.1.9. IWDP Application Fee: \$1,000.00
- 1.1.10. IWDP Transfer/Modification/Renewal Fee: \$250.00
- 1.1.11. Facility Inspection Fee: \$250.00 per inspection
- 1.1.12. Monitoring Report Review Fee: \$250.00 per monitoring report
- 1.1.13. Sampling and Analysis Fee: Actual cost of sampling and laboratory analysis plus 25% to cover administrative costs.
- 1.1.14. Accidental Discharge, Slug Control, and/or Monitoring Fee: Actual cost of response to accidental discharges or discharges of slugs loads, including but not limited to the costs incurred for any additional treatment or other actions required to manage such discharges, monitoring and response to such discharges, correction of any resulting contamination or other impacts to the Treatment Works, including the Collection System and Treatment Plant.

(C) means Change

Issued: October 25, 2019

Effective Date: October 25, 2019

PENNSYLVANIA-AMERICAN WATER COMPANY**RULES AND REGULATIONS****Section V – Industrial Pretreatment Program (Exeter-Area) Compliance (cont'd)****(C)**

- 1.1.15. Compliance and Enforcement Fee - Administrative and Legal: Actual cost incurred by the Company for investigation and actions to address a User's non-compliance with the terms of this IPP or any IWDP.
- 1.1.16. Damage Repair: Actual cost for cleaning, repair, replacement and/or correction of any damage to the Treatment Works, including the Collection System and the Treatment Plant, caused or contributed to by a User's discharge.

1.3 Specific Fees

- 1.2.1 Industrial Loading Fee - applicable on a quarterly basis to discharges with loadings above typical Domestic Sewage loadings up to but not exceeding any applicable Local Limit or IWDP limit, based on sampling and analysis by the Company and sampling required to be reported by the User under an IWDP:

Quarterly Fee (\$) = $Q \times \{((\text{BOD5 Actual} - \text{BOD5 Domestic}) \times \text{BOD5 Cost Factor}) + ((\text{TSS Actual} - \text{TSS Domestic}) \times \text{TSS Cost Factor})\}$

Where:

BOD5 Actual = actual concentration of BOD5 in mg/l as measured by the Company or the Industrial User

BOD5 Cost Factor = Treatment cost for BOD5 for the system = 0.0095

BOD5 Domestic = 250 mg/l, the typical concentration in Domestic Sewage

Q = Total flow for the quarter measured in thousand gallons

TSS Actual = actual concentration of TSS in mg/l as measured by the Company or the Industrial User

TSS Cost Factor = treatment cost for TSS for the system = 0.00648

TSS Domestic = 250 mg/l, the typical concentration in Domestic Sewage

(C) means Change

PENNSYLVANIA-AMERICAN WATER COMPANY**RULES AND REGULATIONS****Section V – Industrial Pretreatment Program (Exeter-Area) Compliance (cont'd)****(C)**

- 1.2.2. Excess Loading Fee - applicable to discharges with loadings that exceed a Local Limit or IWDP limit:

If in any monthly period, the loading of BOD5, or TSS exceeds a Local Limit or IWDP limit, then for the applicable parameter, in calculating the Industrial Loading Fee under §1.2.1, the BOD5 Cost Factor and TSS Cost Factor, applicable to the total loading of that parameter will be 125% of the value set forth in §1.2.1 to compensate for the additional administrative, oversight and management costs associated with managing such excessive loadings.

- 1.2.3. Special Discharge Fee - applicable to discharges with loadings or concentrations that exceed a Local Limit or IWDP limit and that impact sludge handling or disposal methods and costs, necessitate acquisition of nutrient credits, result in damages to the facility, or require extraordinary measures:

Fee = Actual cost incurred by the Company, including but not limited to: (1) additional costs of managing impacted sludge (including costs related to use of alternative disposal facilities, additional monitoring, etc.), (2) costs of acquiring nutrient credits to meet NPDES Permit cap limits; (3) costs of repairs to and restoration of the Treatment Works, including the Collection System and Treatment Plant; or (4) costs of implementing any other measures required to control, manage and address such excessive loadings or concentrations.

(C) means Change

Issued: October 25, 2019

Effective Date: October 25, 2019

F. PAWC Lift Station Inventory and Assessment

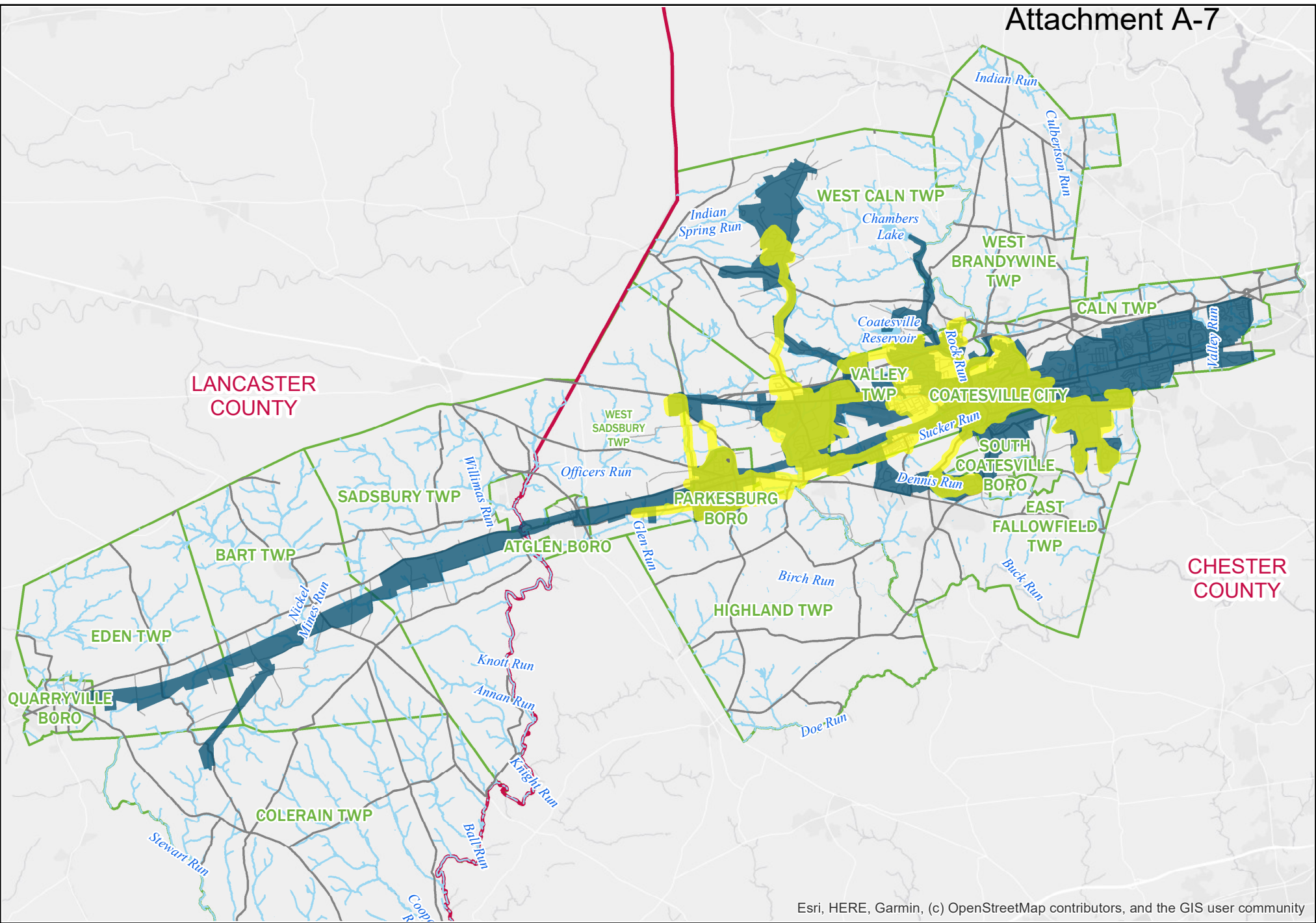
Lift Station	No. of Pumps	Pump Manufacturer	Model	HP	Pump Suction/ Discharge Diameter (In.)	Force Main Diameter	Generator N/Y	Capacity, each unit
Branford Village Lift Station #1	2	Smith & Loveless	4B3B	30	4"/4"	8"	Y	483 gpm @ 127'
Branford Village Lift Station #2	2	Flygt	3153.095 -0735 Sub.	20	4"/4"	4"	Y	171 gpm @ 118'
Brinton Station Lift Station #1	2	ABS	Piranha – PE8072	10.7	4"/4"	4"	Y	46 gpm @ 118'
Brinton Station Lift Station #2	2	Flygt	3085. ??? Sub	2	2"/2"	2"	N	27 gpm @ 39'
Derry Lane Pump Station	2	Flygt	3153.181 Sub	30	4"/4"	4"	Y	100 gpm@160'
Millview Lift Station	2	Flygt	3153.095-0268 Sub.	15	4"/4"	6"	Y	205 gpm @ 65'
Northwoods Lift Station	2	Flygt	3085.891 Sub.	4	2"/2"	2"	Y	48 gpm @ 68'
Parkesburg Lift Station	3	Flygt	3202.185-NT 458	60	4"	10" & 12"	Y	1530 gpm @ 84'
			3231.185-NT 480	185	6"			2750 gpm @ 165'
Providence Hill Lift Station	2	Flygt	3171.185-0733	25	4"/4"	6"	Y	264 gpm @109'
Robins Cove #1 Lift Station	2	Flygt	3102.890-9472	6	2"/2"	2-1/2"	Y	55 gpm @ 119'
Robins Cove #2 Lift Station	2	Barnes	4XSE-EHA Submersible	60	6"/6"	8"	Y	652 gpm @ 217'
Sandy Hill Lift Station	2	Flygt	3153.095-5203	15	4"/4"	4"	Y	282 gpm @ 97'
Strasburg Hunt Lift Station #1 (Short Drive)	2	Flygt	3085.891-0209 Sub.	3	2"/2"	2"	N	Unknown
Strasburg Hunt Lift Station #2 (Windy Hill)	2	Flygt	3127.890-5142 Sub.	5	2"/2"	2"	N	40 gpm @ 90'
West Sadsbury Lift Station (Quebecor)	2	Flygt	3127.185-5231 Sub.	11	4"/4"	4"	Y	100 gpm @ 102'
West Sadsbury Commons Lift Station	2	Flygt	3153.095-0303 Sub.	20	4"/4"	4"	Y	132 gpm @ 126'
West Sadsbury Lower Valley Road (Victory)	2	Flygt	NP3153 HT Sub.	15	4"/4"	4"	Y	292 gpm @ 86.7'
Sadsbury Pump Station	2	Unkown	Unkown	Unkown	Unkown	Unkown	Unkown	700 gpm
Highlands Corp Center P.S. #1	2	Flygt	NP-3127.070	11	3"/3"	3"	Y	150 gpm
Country Ridge P.S.	2	Flygt	NP-3127.070	11	3"/3"	4"	Y	85 gpm @ 120.5'
Hillview P.S	2	Flygt	NX-3171.095	35	4"/4"	4"	Y	220 gpm @ 178'
Rock Run P.S	2	Flygt	CP-3170	30	6"	10", 6"	Y	800 gpm @ 85'
Valley View Business Park P.S.	2	Barnes	XSGV-L 6.00" IMPELLER	5	2"	2"	Y	25 gpm @ 135'
Round Hill P.S. #1	2	Flygt	NX-3102.070	5	4"/4"	4"	Y	160 gpm @ 38/67'
Round Hill P.S. #2	2	Flygt	MP-3085.891	4	1.5"/1.5"	2"	Y	40 gpm @ 68.69'

Lift Station	Condition Assessment Rating	Note
Branford Village Lift Station No. 1	75	Structure & piping in good condition, shows minor signs of rusting, pumps operating well below capacity.
Branford Village Lift Station No. 2	58	Structure in fair condition, pipe rusting evident, pumps operating above rated capacity
Brinton Station Lift Station No. 1	88	Structure in excellent condition, piping showing signs of rusting.
Brinton Station Lift Station No. 2	58	Structure in fair condition, piping showing signs of rusting.
Derry Lane Pump Station	95	Structure and piping in excellent condition.
Millview Lift Station	70	Structure & piping in good condition, debris in wet well, pumps under performing.
Northwoods Lift Station	95	Structure and piping in excellent condition.
Parkesburg Lift Station	95	Wet well, dry well, & piping in excellent condition. Pumping units replaced with larger capacity.
Providence Hill Lift Station	95	Structure in excellent condition. Pumps operating above rated capacity.
Robins Cove No. 1 Lift Station (Stone Creek)	95	Structure in excellent condition. Pumps operating above rated capacity.
Robins Cove No. 2 Lift Station (Stone Creek)	92	Structure in excellent condition. Piping shows slight sign of rusting. Pumps operating above rated capacity.
Sandy Hill Lift Station	62	Structure and piping in fair condition.
Strasburg Hunt Lift Station No. 1 (Short Drive)	55	Structure in fair condition, pipe rust evident.
Strasburg Hunt Lift Station No. 2 (Windy Hill)	62	Structure and piping in fair condition.
West Sadsbury Lift Station (Quebecor)	62	Structure & piping in fair condition.
West Sadsbury Commons Lift Station	58	Structure & piping in fair condition, pumps operating below rated capacity.
West Sadsbury Lower Valley Road	95	Structure in excellent condition.
Sadsbury Pump Station	Unknown	N/A
Highlands Corp Center P.S. #1	Unknown	N/A
Country Ridge P.S.	Unknown	N/A
Hillview P.S	Unknown	N/A
Rock Run P.S	Unknown	N/A
Valley View Business Park P.S.	Unknown	N/A
Round Hill P.S. #1	Unknown	N/A
Round Hill P.S. #2	Unknown	N/A

US Army Corps of Engineering Conditions Index Scales

Zone	CI	Condition Description	Recommended Action
1	85 to 100	Excellent: No noticeable defects. Some aging or wear may be visible	Immediate action is not required
	70 to 84	Good: Only minor deterioration or defects are evident.	
2	55 to 69	Fair: Some deterioration or defects are evident, but function is not significantly affected.	Economic analysis of repair alternatives is recommended.
	40 to 54	Marginal: Moderate deterioration. Function is still adequate.	
3	25 to 39	Poor: Serious deterioration in at least some portions of structure. Function inadequate.	Detailed evaluation is required to determine the need to repair, rehab, or reconstruction
	10 to 24	Very Poor: Extensive deterioration. Barely functional.	
	0 to 9	Failed: No longer functions. General failure or complete failure of a major structural component.	

G. Map of Certificated Franchise Area

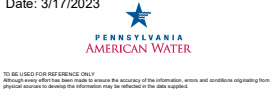


Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community

■ Waste Water Service Area
 ■ County Boundaries
 ■ Municipal Boundary
 ■ Water Bodies

■ Water Service Area
 ■ Roads

Date: 3/17/2023



1 in = 3 miles



0 2.5 5 Miles

Coatesville Water/Wastewater Service Areas

Drawn By: Justin Sena Checked By:

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H. List of Developments

**2022 CHAPTER 94 REPORT
Developments Approved or Exempt Under Construction**

Attachment A-7

NAME	TOTAL EQ. EDU's	EDUS EQ. ACTIVE	EDUS REMAINING	Equivalent Population *
City of Coatesville				
Cambria Terrace	69	69	0	0
Brandywine View	638	0	638	1,595
McCull- Coatesville Condominium	8	8	0	0
Valley Township (d)				
Highlands Corp. Center Phase I, II, III	102	91	11	28
Glencrest Road Residences (Oakcrest)	30	21	9	23
Valley Suburban (Stoltzfus Commercial)	340	0	340	850
Hendry Lot - 29 New Street	1	1	0	0
170 Country Club Road	1	1	0	0
Valley Farm & Mt. Airy Road	81	56	25	63
Caln Township (d)				
Dogwood & Scott Drive Sewer Extension	69	46	23	58
The Villages at Hillview Subdivision	90	66	24	60
Dunkin Donuts	4	0	4	10
West Brandywine Township (d)				
Culbertson Village Residential	178	0	178	445
Traditions of America	227	182	45	113
Sadsbury Township (d)				
Sadsbury Park	461	394	67	168
Rock Holdings (Lot 7B Independence Way)	9	9	0	0
Lafayette Square	125	123	2	5
Sadsbury Township Existing Residents	80	20	60	150
East Fallowfield Township				
Stone Creek (Robins Cove)	53	53	0	0
North Woods (Thompson North)	27	27	0	0
Mendenhall Tract	74	11	63	158
Providence Hill (Chen Tract)	218	218	0	0
Manchester Farms (Thompson South)	112	112	0	0
Ridgecrest (Martin)	72	50	22	55
Fieldstone Village	45	37	8	20
Cardinal Drive Area	77	77	0	0
East Fallowfield Miscellaneous	13	9	4	10
Parkesburg Borough				
Parkesburg Knoll	171	169	2	5
MK Builders	3	1	2	5
Parkesburg Miscellaneous	20	9	11	28
West Sadsbury Township				
Lower Valley Road Partners, LP (Victory)	311	232	79	198
King Swings (4000 Valley Road)	4	4	0	0
JD Eckman (4781 Lower Valley Road)	96	35	61	153
Upper Valley Road Daycare/Apartment	6	6	0	0
West Sadsbury Miscellaneous	6	2	4	10
West Caln Township				
Calnshire West	124	101	23	58
Sandy Hill	87	87	0	0
Arron King	1	1	0	0
Aaron Glick	2	1	1	3
West Caln Miscellaneous	5	1	4	10
	1,710			4,275

* Population estimated by multiplying EDU projections by 2.5 people per EDU

Developments Approved or Exempt Not Yet Under Construction

NAME	EDUS REMAINING	Equivalent Population *
City of Coatesville		
Marriott Resturant	31	78
701 ELH - Residential	7	18
731 ELH - Residential	9	23
Williams Tract	80	200
Valley Township (d)		
Micronic USA	2	5
Abdala Building Expansion	2	5
119 Mount Carmel Road	1	3
Cleveland - Cliffs Building Expansion	2	5
Lawrence Professional Center - 2 EDU	2	5
Caln Township (d)		
Southwoods Subdivision	20	50
West Brandywine Township (d)		
Existing Unconnected EDU's	2	5
Culbertson Village Commercial	33	83
Sadsbury Township (d)		
Art Hurling	1	3
Valley View	3	8
Sadsbury Square	84	210
Bone Tract (Sadsbury Portion)	20	50
Lincoln Crest MHP	50	125
East Fallowfield Township		
Coatesville SD - Brandywine MS	75	188
Parkesburg Borough		
Crystal Springs Expansion (Heritage)	129	323
Lindale Village	31	78
Davis Tract	324	810
Phillips Site	4	10
Parkesedge Apartments	32	80
	944	2,360

* Population estimated by multipling EDU projections by 2.5 people per EDU

**2022 CHAPTER 94 REPORT
Developments in Preliminary Planning Stages**

Attachment A-7

NAME	EDUS REMAINING	Equivalent Population *
City of Coatesville		
Chetty Towers 1 - Residential	60	150
Chetty Towers 1 - Commercial	10	25
Chetty Towers 2 - Residential	150	375
Chetty Towers 2 - Commercial	25	63
Chetty Tower 3 - Residential	325	813
Chetty Tower 3 - Commercial	66	165
Chetty Tower 4 - Residential	48	120
Chetty Tower 4 - Commercial	6	15
Chetty Tower 5 - Residential	195	488
Chetty Tower 5 - Commercial	34	85
Chetty Tower 6 - Residential	85	213
Chetty Tower 6 - Commercial	9	23
Flats Tract - Residential/Commercial	200	500
Pulver Office Building 2	25	63
Pulver Office Building 3	25	63
Pulver Office Building 4	25	63
Pulver Office Building 5	12	30
Pulver Office Building 6	12	30
129-133 ELH - Residential	32	80
129-133 ELH - Commercial	3	8
Cansler Tower East - Residential	65	163
Cansler Tower East - Commercial	9	23
Cansler Tower West - Residential	40	100
Cansler Tower West - Commercial	6	15
Regional Recreation Complex	20	50
Steel Heritage Museum	20	50
G.O. Carlson/Mittal Steel Tract	30	75
Train Station	8	20
300 East Lincoln Highway	10	25
Valley Road Apartments	9	23
Legend Properties (Lipkin Apartments)	55	138
Gateway Development (Lipkin Building)	38	95
Habitat for Humanity: Coates Street	7	18
CCIU Toddler Center	2	5
Borough of South Coatesville		
1300 Youngsberg Road	130	325

Valley Township (d)		
Rainbow Village Existing Residences	30	75
Bone Tract (Valley View Business Park)	14	35
Airport	12	30
Westwood Ridge	87	218
140 Andrews Lane	1	3
Green Trees (55 Glencrest Road)	80	200
Caln Township (d)		
Misc. (Infill & OLDS Convert to Public)	225	563
Caln Road	40	100
Toomey Estates (Blackhorse Hills Apartments)	75	188
Fox Ave Subdivision	11	28
West Brandywine Township (d)		
Janiec/Cobblestone	34	85
Traditions of America at Harvest Run	183	458
Traditions of America No. 3	270	675
Highland Township		
Highland Miscellaneous	5	13
Woodview Acres (Dautrich)	54	135
Sadsbury Township (d)		
Sadsbury Commons	240	600
Sadsbury Commons - Medical Office	3	8
Sadsbury Commons Reserve	3	8
Sadsbury Commons Misc. Flow	26	65
CVS Total Development	24	60
Township Existing Residence	104	260
East Fallowfield Township		
Scott Farm	75	188
Etteleson Development	32	80
Bonsall Farm	20	50
Parkesburg Borough		
Siti Crook - Maple Alley	2	5
Octorara Avenue	3	8
Library Site	131	328
Minch Park East	1	3
Church - 94 East 2nd Avenue	1	3
19 Borough Line Road	1	3
Ross Property - 30 Borough Line Road	1	3
Williams Subdivision Rosemont Ave	2	5
Sheller - 5th Avenue	1	3
340B Green Street	1	3

**2022 CHAPTER 94 REPORT
Developments in Preliminary Planning Stages**

Attachment A-7

West Caln Township		
Country Meadows (Lawrence)	72	180
Sands Property	309	773
Lapp Tract	3	8
West Sadsbury Township		
Mast Property	600	1,500
Springer Development	20	50
Autozone	2	5
	4,594	11,485

* Population estimated by multiplying EDU projections by 2.5 people per EDU

Application of Pennsylvania-American Water Company – Wastewater Division for approval to begin to offer, render, furnish or supply wastewater service to the public in an additional portion of Sadsbury Township, Chester County, Pennsylvania

Docket No. A-2023-30398123

PAWC's Responses to TUS Data Request Set I

A-8 Please explain how approval of PAWC-WD 's Application would benefit PAWC-WD's existing and proposed customers.


Response: The new customer will continue to benefit from enhanced customer service in several areas, such as, but not limited to, additional bill payment options, extended customer service and call center hours, customer information and education programs, and PAWC's customer assistance program. Furthermore it is in the best interest of the public, including our customers, to have an old septic system removed and have this property connected to public sewer because it decreases the potential for contamination of neighboring wells.

Responsible Witness: **James P. Kelly, Senior Supervisor – Coatesville
Pennsylvania-American Water Company**

Dated: **May 3, 2023**

VERIFICATION

I, James P. Kelly hereby state that the facts above set forth above are true and correct to the best of my knowledge, information and belief, and that I expect to be able to prove the same at a hearing held in this matter. I understand that the statements made herein are made subject to the penalties of 18 Pa. Cons. Stat. §4904 relating to unsworn falsification to authorities.




James P. Kelly, Senior Supervisor – Coatesville
Pennsylvania-American Water Company

Dated: 5-2-23

VERIFICATION

I, Mallory M. Weakland hereby state that the facts above set forth above are true and correct to the best of my knowledge, information and belief, and that I expect to be able to prove the same at a hearing held in this matter. I understand that the statements made herein are made subject to the penalties of 18 Pa. Cons. Stat. §4904 relating to unsworn falsification to authorities.



Mallory M. Weakland, Senior GIS Analyst
Pennsylvania-American Water Company

Dated: 5/3/23