BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	:	
	:	
v.	:	Docket Nos. R-2025-3057983 (W)
	:	R-2025-3058051 (WW)
Pennsylvania-American Water Company	:	
	:	

OCA HEARING EXHIBIT 1

LIST OF EVIDENCE
TO BE MOVED INTO THE EVIDENTIARY RECORD
BY THE OFFICE OF CONSUMER ADVOCATE

The Office of Consumer Advocate (OCA) intends to submit the following evidence into the evidentiary record in the above captioned proceedings at the scheduled evidentiary hearings in this proceeding.

DIRECT TESTIMONY

OCA Statement No. 1: Direct Testimony of Lafayette K. Morgan consisting of written testimony with signed verification of Lafayette K. Morgan, Public Utilities Consultant, Exeter Associates, Inc., and the following:
- Exhibit LKM-1 through Exhibit LKM-5E

OCA Statement No. 2: Direct Testimony of David J. Garrett consisting of written testimony with signed verification of David J. Garrett, Managing Member, Resolve Utility Consulting PLLC, and the following:
- Appendix A through Appendix E
- Exhibit DJG-1 through Exhibit DJG-23

OCA Statement No. 3: Direct Testimony of Jerome D. Mierzwa consisting of written testimony with signed verification of Jerome D. Mierzwa, Principal and President, Exeter Associates, Inc., and the following:
- Schedule JDM-1 through Schedule JDM-3

OCA Statement No. 4: Direct Testimony of Roger Colton consisting of written testimony with signed verification of Roger

Colton, Owner, Fisher Sheehan & Colton, and the following:

- Exhibit RDC-1 through RDC-5

OCA Statement No. 5: Direct Testimony of Barbara R. Alexander consisting of written testimony with signed verification of Barbara Alexander, Sole Member, Barbara Alexander Consulting, LLC, and the following:

- Appendix A
- Exhibit BA-1 through Exhibit BA-5

CONFIDENTIAL
OCA Statement No. 5: CONFIDENTIAL Direct Testimony of Barbara R. Alexander consisting of written testimony with signed verification of Barbara Alexander, Sole Member, Barbara Alexander Consulting, LLC, and the following:

- Appendix A
- Exhibit BA-1 through Exhibit BA-5

CORRECTED DIRECT TESTIMONY

CORRECTED
OCA Statement No. 1: CORRECTED Direct Testimony of Lafayette K. Morgan consisting of written testimony with errata sheet, signed verification of Lafayette K. Morgan, Public Utilities Consultant, Exeter Associates, Inc., and the following:

- Exhibits LKM-1 through LKM-5E
- Appendix A

CORRECTED
OCA Statement No. 2: CORRECTED Direct Testimony of David J. Garrett consisting of written testimony with errata sheet, signed verification of David J. Garrett, Managing Member, Resolve Utility Consulting PLLC, and the following:

- Appendix A through Appendix E
- Exhibits DJG-1 through DJG-23

SUPPLEMENTAL DIRECT TESTIMONY

OCA Statement No. 5-Supp: Supplemental Direct Testimony of Barbara R. Alexander consisting of written testimony with signed verification of Barbara Alexander, Sole Member, Barbara Alexander Consulting, LLC, and the following:

- Appendix A (Supplemental)

REBUTTAL TESTIMONY

OCA Statement No. 2R: Rebuttal Testimony of David J. Garrett consisting of written testimony along with a signed verification of David J. Garrett, Managing Member, Resolve Utility Consulting PLLC.

OCA Statement No. 3R: Rebuttal Testimony of Jerome D. Mierzwa consisting of written testimony with signed verification of Jerome D. Mierzwa, Principal and President, Exeter Associates, Inc.

SURREBUTTAL TESTIMONY

OCA Statement No. 1SR: Surrebuttal Testimony of Lafayette K. Morgan consisting of written testimony with signed verification of Lafayette K. Morgan, Public Utilities Consultant, Exeter Associates, Inc., and the following:

- Exhibits LKM-1 Summary-SR through LKM-6E-SR

OCA Statement No. 2SR: Surrebuttal Testimony of David J. Garrett consisting of written testimony with signed verification of David J. Garrett, Managing Member, Resolve Utility Consulting PLLC.

OCA Statement No. 3SR: Surrebuttal Testimony of Jerome D. Mierzwa consisting of written testimony with signed verification of Jerome D. Mierzwa, Principal and President, Exeter Associates, Inc.

OCA Statement No. 4SR: Surrebuttal Testimony of Roger Colton consisting of written testimony with signed verification of Roger Colton, Owner, Fisher Sheehan & Colton.

OCA Statement No. 5SR: Surrebuttal Testimony of Barbara R. Alexander consisting of written testimony with signed verification of Barbara Alexander, Sole Member, Barbara Alexander Consulting, LLC, and the following:

- Exhibit BA-6

CONFIDENTIAL
OCA Statement No. 5SR: CONFIDENTIAL Surrebuttal Testimony of Barbara R. Alexander consisting of written testimony with signed verification of Barbara Alexander, Sole Member, Barbara Alexander Consulting, LLC, and the following:

- Exhibit BA-6

ADDITIONAL EXHIBITS

OCA Hearing Exhibit 1: List of Evidence to be Moved into the Evidentiary Record by the Office of Consumer Advocate (OCA)

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	**:**	
	:	**Docket Nos. R-2025-3057983**
v.	**:**	**R-2025-3058051**
	:	
Pennsylvania American Water Company	**:**	

DIRECT TESTIMONY

OF

LAFAYETTE K. MORGAN, JR.

ON BEHALF OF THE

PENNSYLVANIA OFFICE OF CONSUMER ADVOCATE

January 30, 2026

EXETER
ASSOCIATES, INC.
10480 Little Patuxent Parkway, Suite 300
Columbia, Maryland 21044

TABLE OF CONTENTS

I. INTRODUCTION 1
II. SUMMARY AND RECOMMENDATIONS 5
III. REVENUE REQUIREMENT ISSUES 6
1. Utility System Acquisitions 6
2. Payroll Expense 20
3. Incentive Compensation Expense 20
4. Towamencin Township Transaction Costs 21
5. Group Insurance Expense 23
6. Transportation Expense 23
7. PURTA Tax 24
8. Interest Synchronization 25
9. Pension and OPEB Expense and Request for Deferred Accounting Treatment 25

I. Introduction

Q. **PLEASE STATE YOUR NAME, POSITION AND BUSINESS ADDRESS.**

A. My name is Lafayette K. Morgan, Jr. My business address is 10480 Little Patuxent Parkway, Suite 300, Columbia, Maryland, 21044. I am a Public Utilities Consultant working with Exeter Associates, Inc. ("Exeter"). Exeter is a consulting firm specializing in issues pertaining to public utilities.

Q. **PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND QUALIFICATIONS.**

A. I received a Master of Business Administration degree from The George Washington University. The major area of concentration for this degree was Finance. I received a Bachelor of Business Administration degree with concentration in Accounting from North Carolina Central University. I was previously a CPA licensed in the state of North Carolina, however, in 2009, I elected to place my license in an inactive status as I focused on start-up activities for other business interests.

Q. **PLEASE DESCRIBE YOUR PROFESSIONAL EXPERIENCE.**

A. From May 1984 until June 1990, I was employed by the North Carolina Utilities Commission - Public Staff in Raleigh, North Carolina. I was responsible for analyzing testimony, exhibits, and other data presented by parties before the North Carolina Utilities Commission. I had the additional responsibility of performing the examination of books and records of utilities involved in rate proceedings and summarizing the results into testimony and exhibits for presentation before that Commission. I was also involved in numerous special projects, including participating in compliance and prudence audits of a major utility, and conducting research on several issues affecting natural gas and electric utilities.

From June 1990 until July 1993, I was employed by Potomac Electric Power Company ("Pepco") in Washington, D.C. At Pepco, I was involved in the preparation of the cost of service, rate base and ratemaking adjustments supporting Columbia's requests for revenue increases in the State of Maryland and the District of Columbia.

From July 1993 through 2010, I was employed by Exeter as a Senior Regulatory Analyst. During that period, I was involved in the analysis of the operations of public utilities, with emphasis on utility rate regulation. I reviewed and analyzed utility rate filings, focusing primarily on revenue requirements determination. This work involved natural gas, water, electric, and telephone companies.

In 2010, I left Exeter to focus on start-up activities for other ongoing business interests. In late 2014, I returned to Exeter continuing to work in a similar capacity as prior to my hiatus.

Q. **HAVE YOU PREVIOUSLY TESTIFIED IN REGULATORY PROCEEDINGS ON UTILITY RATES?**

A. Yes. I have previously presented testimony and affidavits on numerous occasions before the Regulatory Commission of Alaska, the Colorado Public Utilities Commission, the Georgia Public Service Commission, the Illinois Commerce commission, the Kansas Corporation Commission, the Kentucky Public Service Commission, the Louisiana Public Service Commission, the Maine Public Utilities Commission, the Maryland Public Service Commission, the Massachusetts Department of Public Utilities the North Carolina Utilities Commission, the Public Utilities Commission of Ohio, the Corporation Commission of Oklahoma, the Pennsylvania Public Utility Commission, the Philadelphia Gas Commission, the Philadelphia Water, Sewer and Storm Water Rate Board, the Public Utilities Commission of Rhode Island,

the Public Service Commission of South Carolina, the Public Utility Commission of Texas, the Vermont Public Service Board, the Virginia Corporation Commission, the West Virginia Public Service Commission, the Wyoming Public Service Commission, and the Federal Energy Regulatory Commission ("FERC"). My resume is attached hereto as Appendix A.

Q. **ON WHOSE BEHALF ARE YOU APPEARING?**

A. I am presenting this testimony on behalf of the Pennsylvania Office of Consumer Advocate ("OCA").

Q. **WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?**

A. Exeter has been retained by the OCA to assist in the evaluation of the general rate filing submitted by Pennsylvania-American Water Company ("PAWC" or "Company"). I have been asked by the OCA to present my findings with respect to the Company's revenue requirement and its proposed rate increase. I calculate the Company's rate base, pro forma operating income under present rates, and overall revenue deficiency based upon my recommended adjustments to the Company's claims. My findings are based upon incorporating the recommendations and findings of other OCA witnesses who are also presenting testimony in this proceeding.

Q. **PLEASE IDENTIFY THE OCA'S OTHER EXPERT WITNESSES WHO ARE PRESENTING TESTIMONY IN THIS PROCEEDING.**

A. In addition to my testimony, there are four other witnesses presenting testimony on behalf of the OCA.

- In OCA Statement No. 2, Mr. David Garrett provides testimony on the appropriate rate of return and cost of capital issues, and also issues related to the determination of the depreciation rates.

- In OCA Statement No.3, Mr. Jerome D. Mierzwa is the OCA's witness who provides testimony on class cost of service and rate design issues.
- In OCA Statement No. 4, Mr. Roger Colton will present the OCA's recommendations regarding affordability of service, low-income customer assistance programs, and tariffs.
- In OCA Statement No. 5, Ms. Barbara Alexander will present the OCA's recommendations regarding customer service and quality of service.

Q. **IN CONNECTION WITH THIS CASE, HAVE YOU PERFORMED AN EXAMINATION AND REVIEW OF THE CITY'S TESTIMONY AND EXHIBITS?**

A. Yes. I have reviewed the Company's testimonies, exhibits and its rate filing. I have also reviewed the Company's responses to interrogatories propounded by the OCA, the Office of Small Business Advocate ("OSBA"), and the Bureau of Investigation & Enforcement ("I&E") interrogatories.

Q. **WHAT PERIOD HAVE YOU USED IN MAKING YOUR DETERMINATION OF THE COMPANY'S REVENUE REQUIREMENTS?**

A. I used the Fully Projected Future Test Year (FPFTY) ending June 30, 2027 as the basis for determining the FPFTY year revenue requirements, as filed by the Company.

Q. **HAVE YOU PREPARED SCHEDULES TO ACCOMPANY YOUR TESTIMONY?**

A. Yes. I have prepared five set of Exhibits for each of the Company's service offerings. Exhibits LKM-1W through LKM-10W provide the supporting exhibits for PAWC water services. Exhibits LKM-1W through LKM-10W provide the supporting exhibits for PAWC water services. Exhibits LKM-1WSS through LKM-10WSS provide the

exhibits for the Company's Wastewater SSS operations. Exhibits LKM-1BASA through LKM-9BASA provide the exhibits for the Company's Wastewater BASA operations. Exhibits LKM-1CSS through LKM-9SS provide the exhibits for the Company's Wastewater BASA operations. Finally, Exhibits LKM-1E through LKM5E provide the exhibits for the Company's Elizabeth Borough Operation.e

Q. **HOW IS THE REMAINDER OF YOUR TESTIMONY ORGANIZED?**

A. This section, Section I, provides the introductory information to my testimony. Section II presents a summary of my findings and conclusions. In Section III, I document and explain each of the accounting adjustments that I have made to the rate base and operating income to arrive at the test year revenue increase shown on Exhibit LKM-1. Additionally, attached to this testimony, I present the exhibits that support my adjustments and summarize my revenue requirement recommendation. Appendix A, attached to this testimony, provides my resumé which summarizes my professional experience.

II. Summary and Recommendations

Q. **PLEASE SUMMARIZE THE RATE RELIEF REQUESTED BY THE COMPANY IN ITS FILING.**

A. On November 14, 2025, the Company filed this base rate case with the Pennsylvania Public Utility Commission (the "Commission") seeking a general rate increase in water and wastewater rates pursuant to 66 Pa. C.S. § 1308(d) of the Pennsylvania Public Utility Code ("Code"). If PAWC's full requested increase is granted, the Company's combined (water and wastewater) annual base rate distribution revenue would increase by approximately $168.7 million, resulting in a total system average increase of

approximately 14.6%.[1] This level of rate increase is designed to provide the Company with an opportunity to earn an 8.23% overall rate of return on water rate base, and a 7.75% overall rate of return on wastewater rate base. The overall rates of return requested by the Company includes a 10.95% return on common equity.[2]

From my review of PAWC's filing, the requested increase in rates is driven by: (i) the recovery of planned investment in utility plant; (ii) the recovery of the Company's requested rate of return on its utility plant investments; (iii) the effect of the current trend of declining consumption per-customer; and (iv) recovery of increases in operating expenses.[3]

Q. **PLEASE SUMMARIZE YOUR FINDINGS AND RECOMMENDATIONS.**

A. As shown on Exhibit LKM-1, I have determined that the Company's combined rates should be decreased by $17.3 million for the FPFTY ending June 30, 2027. This represents a decrease of $186 million from the Company's requested increase of $168.7 million.

III. Revenue Requirement Issues

1. Utility System Acquisitions

Q. **WHAT WATER AND WASTEWATER SYSTEM ACQUISITIONS IS THE COMPANY INCLUDING IN BASE RATES FOR THE FIRST TIME?**

[1] PAWC Volume 1, Page 1.
[2] *Id.* at 2.
[3] PAWC Volume 7, Exhibit Fully Projected Future 1, A-1, Page 1.

A. The chart below summarizes the water and wastewater systems that the Company is including in rates for the first time.

Water	Wastewater
Farmington Township	Farmington Township
Audubon Water Company	Butler Area Sewer Authority
East Dunkard Water Authority	Elizabeth Borough Municipal Authority
Manwalamink Water Company	Manwalamink Sewer Company
Appalachian Utilities, Inc.	Sadsbury Township Municipal Authority
Corner Water Supply and Service Corporation	

Q. **PLEASE PROVIDE A BRIEF DESCRIPTION OF EACH OF THE SYSTEMS ABOVE.**

A. In this proceeding, there are nine separate entities (water, wastewater or combined) that PAWC proposes to include in base rates for the first time.

1. Farmington Township ("Farmington"). Farmington is composed of water and wastewater systems. The Commission approved PAWC's acquisition of Farmington on September 26, 2024 in Docket Nos. A-2023-3042587 and A-2023-3042567. The purchase price was allocated $2,621,312 to the water system and $2,923,688 to the wastewater system. The application for PAWC's acquisition of Farmington was filed under Section 1102(a) of the Code, 66 Pa. C.S. Section 1102(a).
2. Audubon Water Company ("Audubon" or "AWC"). The Commission approved PAWC's acquisition of Audubon on January 23, 2025[4] in Docket Nos. A- 2023-3043194 and A- 2023-3043196. The purchase price for this water system was $7,200,000. The application for PAWC's acquisition of Audubon was filed under Section 1102(a) of the Code, 66 Pa. C.S. Section 1102(a).

[4] On page 8, line 10 of Mr. Wieczenski's direct testimony, he indicates the Order was entered on January 23, 2024. However, the date on the Order is January 23, 2025. It is assumed the discrepancy is inadvertent.

3. East Dunkard Water Authority ("East Dunkard"). In Docket No. P-2023-3043950, the Pennsylvania Department of Environmental Protection ("DEP") and PAWC filed a Joint Petition pursuant to 52 Pa. Code § 3.2 seeking an emergency order directing PAWC to act as a receiver to operate East Dunkard. PAWC granted Receivership of East Dunkard beginning on February 9, 2024 as authorized by both the Commission and the Commonwealth Court. PAWC filed an Application to acquire the East Dunkard system on June 21, 2024. By Order entered on March 13, 2025, the Commission approved PAWC's acquisition of the East Dunkard system pursuant to Section 1102. The purchase price for this water system was $5,000,000.

4. Manwalamink Water Company ("MWC") and Manwalamink Sewer Company ("MSC") (collectively "Manwalamink"). Manwalamink is composed of water and wastewater systems. The Commission approved PAWC's acquisition of Manwalamink on March 27, 2025 in Docket Nos. A-2023-3044418, A-2023-3044419, A-2023-3044421 and A-2023-3044422. The purchase price was allocated $1,809,000 to the water system and $2,191,000 to the wastewater system. The application for PAWC's acquisition of Manwalamink was filed under Section 1102(a) of the Code, 66 Pa. C.S. Section 1102(a).

5. Appalachian Utilities, Inc. ("Appalachian"). The Commission approved PAWC's acquisition of Appalachian on June 18, 2025[5] in Docket Nos. A-2024-3046068, A-2024-3046084 and A-2024-3046092. The purchase price for this water system was $3,500,000. The application for PAWC's acquisition of Appalachian was filed under pursuant to Section 1102(a) of the Code, 66 Pa. C.S. Section 1102(a).

[5] On page 8, line 10 of Mr. Wieczenski's direct testimony, he indicates the Order was entered on September 23, 2025. However, the date on the Order is June 18, 2025. It is assumed the discrepancy is inadvertent.

6. Corner Water and Service Corporation ("Corner"). The Commission approved PAWC's acquisition of Corner on September 2, 2025 in Docket Nos. A-2025-3052745 and A-2025-3052747. The purchase price for this water system is not disclosed. The application for PAWC's acquisition of Corner was filed pursuant to Section 1102 of the Code.

7. Butler Area Sewer Authority ("BASA"). The Commission approved PAWC's acquisition of BASA. On November 16, 2023 pursuant to Section 1329 of the Code, 66 Pa. C.S. § 1329.

8. Elizabeth Borough Municipal Authority ("EBMA"). The Commission approved PAWC's acquisition of EBMA on October 9, 2025 pursuant to Section 1329 of the Code. The acquisition transaction closed in December 2025.

9. Sadsbury Township Municipal Authority ("STMA"). The Commission approved PAWC's acquisition of STMA on September 12, 2024, pursuant to Section 1102 of the Code, 66 Pa. C.S. Section 1102. PAWC and STMA closed on the acquisition on October 31, 2024 WTP. The purchase price for the system is $990,000. On November 7, 2024, PAWC filed an Original Cost Study of the system. The original cost of the system was determined to be $2,451,913 and the depreciated original cost was $1,976,073. The depreciated original cost of the assets included in this transaction is more than the purchase price, therefore, PAWC will amortize the difference between what was paid and the cost of the assets over ten years, thus lowering expenses for the Company's existing customers.

Q. **IN ADDITION TO THE INCLUSION OF THE ORIGINAL COST OF PLANT IN SERVICE, IS THE COMPANY SEEKING TO INCLUDE ANY ACQUISITION ADJUSTMENTS RELATED TO THE ACQUIRED SYSTEMS?**

A. Yes. I have summarized the systems acquisitions for which PAWC is seeking to recover the acquisition costs in the chart below.

PAWC Proposed Acquisition Adjustment Inclusions		
	Water	Wastewater
Farmington Township	X	X
Audubon Water Company	X	
Manwalamink Water and Sewer Company	X	X

Q. **WHAT IS AN ACQUISITION ADJUSTMENT?**

A. For utilities, an acquisition adjustment is the difference between the price paid to acquire a utility and the value of the net assets of that utility being acquired. It is sometimes referred to as Goodwill. Depending on the purchase price and the value of the business' net assets, the acquisition adjustment could be either negative or positive. Hence, a positive acquisition adjustment results from paying a purchase price that exceeds the underlying net assets of the utility being acquired. Likewise, a negative acquisition would result from paying a purchase price that is less than the underlying net assets of the utility being acquired. Under traditional ratemaking theory, the value of the assets included in its rate base, may only include the value of assets at the original cost of the property when first devoted to the public service less applicable accrued depreciation. However, under certain circumstances, the value of the assets more than the original costs less depreciation may be allowed in rate base.

In this jurisdiction, there are two exceptions to the prohibition of including an acquisition adjustment in rate base. When certain circumstances are met, Sections 1327 and 1329 of the Code, allow the inclusion of the cost of public water utility assets at a cost in excess of the original cost less accrued depreciation. Section 1329 provides a framework for public utilities to establish the fair market value of municipal water and wastewater systems they are acquiring. It allows the use of the lesser of the negotiated

purchase price or the average of two independent appraisals based on cost, market, and income approaches to set the rate base. If a water utility is not acquired pursuant to the provisions of Section 1329 of the Pennsylvania Code, but the acquiring utility can satisfy the provisions stated in Section 1327(a), it may be able to use the purchase price that includes the acquisition adjustment.

Q. **WHAT ARE THE PROVISIONS THAT MUST BE MET BY A UTILITY IN ORDER TO REFLECT A SECTION 1327(A) POSITIVE ACQUISITION ADJUSTMENT IN RATES?**

A. Section 1327(a) of the Code outlines nine criteria, all of which must be met by a utility in order to add an acquisition adjustment to rate base. The following criteria apply:

1) The property acquired is used and useful in providing service;

2) The acquired utility had 3,300 or fewer customer connections or was non-viable in the absence of the acquisition;

3) The acquired entity was not, at the time of acquisition, furnishing and maintaining adequate, efficient, safe and reasonable service and facilities, evidence of which shall include, but not be limited to, any one or more of the following:

   i) violation of statutory or regulatory requirements of the Department of Environmental Resources (now, Department of Environmental Protection) or the commission concerning the safety, adequacy, efficiency or reasonableness of service and facilities;

   ii) a finding by the commission of inadequate financial, managerial or technical ability of the small water or sewer utility;

   iii) a finding by the commission that there is a present deficiency concerning the availability of water, the palatability of water or the provision of water at adequate volume and pressure;

   iv) a finding by the commission that the small water or sewer utility, because of necessary improvements to its plant or distribution system, cannot reasonably be expected to furnish and maintain adequate service to its customers in the future at rates equal to or less than those of the acquiring public utility;

v) any other facts, as the commission may determine, that evidence the inability of the small water or sewer utility to furnish or maintain adequate, efficient, safe and reasonable service and facilities;

4) reasonable and prudent investments will be made to assure that the customers served by the property will received adequate, efficient, safe and reasonable service;

5) the public utility is in agreement with the acquisition and the negotiations which led to the acquisition were conducted at arm's length;

6) the actual purchase price is reasonable;

7) neither the acquiring nor selling public utility is an affiliated interest of the other;

8) the rates charged by the acquiring utility to its preacquisition customers will not increase unreasonably because of the acquisition; and

9) the excess of the acquisition cost over the depreciated original cost will be added to the rate base to be amortized as an addition to expense over a reasonable period of time with corresponding reductions in the rate base.

Q. **WHAT ARE THE REASONS PROVIDED BY THE COMPANY FOR REQUESTING SECTION 1327 TREATMENT FOR THE FARMINGTON WATER SYSTEM?**

A. According to the Company, the Farmington water system meets each of the nine criteria contained in Section 1327. PAWC states that:

1) All of the assets acquired by PAWC are used and useful in the public service.

2) The Farmington water system has 464 total customers, which is fewer than 3,300 customer connections.

3) The Farmington water system was not providing adequate, efficient, safe and reasonable service and facilities.

4) PAWC will make reasonable and prudent investments to provide adequate, efficient, safe and reasonable service and facilities. These investments include an estimated $1.04 million of capital improvements in the water system.

5) Farmington agreed to the acquisition, and the negotiations were at arm's length;

6) The allocated purchase price of $2,621,312 for the water system is reasonable. Farmington chose not to pursue a fair market value transaction, despite its ability to do so. The purchase price for the water system was based on the

depreciated original cost ("DOC") of the assets of the system. The allocated purchase price of $2,621,312 is only 5% higher than the water system's DOC of $2,501,654.

7) PAWC is not affiliated with Farmington.

8) The proposed rate base for this system is $2,718,300, which represents less than 0.1% of PAWC's $4.7 billion rate base at the end of the FPFTY. Therefore, PAWC believes the transaction will have a de minimus impact on rates.

9) The excess of the acquisition cost over depreciated original cost will be amortized over ten years.

Q. **DO YOU AGREE THAT THE FARMINGTON ACQUISITION MET ALL CRITERIA TO MEET THE SECTION 1327 REQUIREMENTS FOR INCLUSION OF THE ACQUISITION ADJUSTMENT IN RATE BASE?**

A. No. I do not agree with the Company's claim. Specifically, PAWC claims that the Farmington water system was not providing adequate, efficient, safe and reasonable service and facilities. PAWC reached this conclusion by citing that the Farmington system received 41 Safe Drinking Water violations between 2018 and 2023. According to PAWC, the violations related to repeated failure to collect weekly water samples. PAWC then states that "[b]y failing to collect samples, the Farmington system provided inadequate and unreliable service, exposing customers to the risk of ingesting improperly disinfected water."[6] PAWC stated that the Farmington system also "repeatedly failed to issue public notification of its violations as required by DEP SDWA regulations and failed to issue its U.S. Environmental Protection Agency ("EPA") mandated Consumer Confidence Report on a timely basis."[7] PAWC states that "by failing to inform the public of critical drinking water alerts and information in

[6] Direct Testimony of Don Wieczenski at 27:6-8.
[7] *Id.* at 27:11-16.

a timely manner, the system provided inadequate and unreasonable service by not communicating public health safety concerns."[8]

I disagree that these violations resulted in "inadequate and unreasonable service." Were there violations of The Pennsylvania Department 1 of Environmental Protection ("DEP")'s Safe Drinking Water Act ("SDWA")? The answer is yes. However, the violations were not critical, nor did they result in releasing a serious public health crisis. Rectifying the violations appears to be a matter that PAWC could easily resolve by changing sampling collection protocols. Moreover, PAWC's proposal would hurt the same customers it claims to be concerned about. In fact, PAWC's proposal is punitive towards those customers. Essentially, PAWC is proposing to increase rate base and charge customers more for service because the former system operator did consistently collect testing samples. Viewed differently, the nature of the violations was not so critical as to require PAWC to pay the acquisition adjustment in order to take over the system to immediately eliminate a critical health, safety and reliability threat. Thus, PAWC has not met all criteria required under Section 1327. In fact, PAWC's proposal is unreasonable and should not be allowed by the Commission.

Q. **WHAT ARE THE REASONS PROVIDED BY THE COMPANY FOR REQUESTING SECTION 1327 TREATMENT FOR THE AUDUBON WATER SYSTEM?**

A. According to PAWC the Audubon system satisfies each of the nine criteria contained in Section 1327. PAWC states:

1) All of the assets acquired by PAWC are used and useful in the public service.
2) The Audubon system had 2,893 customers as of June 30, 2025, which is fewer than 3,300 customer connections.

[8] *Id.*

3) The Audubon system struggled to provide adequate, efficient, safe and reasonable service and facilities because the owners of the system were of retirement age, they were no longer able to properly manage and operate the system, and they did not have successors available to assume management of the system.

4) PAWC has made and will continue to make reasonable and prudent investments to provide adequate, efficient, safe and reasonable service and facilities.

5) Audubon agreed to the acquisition and the negotiations were conducted at arm's length.

6) The purchase price of $7,200,000 (with the Section 1327(a) contingency) is reasonable.

7) PAWC is not affiliated with AWC.

8) The transaction will have a de minimus impact on rates because the rates charged to PAWC's preacquisition customers will not increase unreasonably because of the acquisition since the proposed rate base for this system is less than 0.08% of PAWC's $4.7 billion rate base at the end of the FPFTY.

9) The excess of the acquisition cost over depreciated original cost will be added to rate base to be amortized over ten years.

Q. **DO YOU AGREE THAT THE AUDUBON ACQUISITION MET ALL CRITERIA TO MEET THE SECTION 1327 REQUIREMENTS FOR INCLUSION OF THE ACQUISITION ADJUSTMENT IN RATE BASE?**

A. No. I do not. It is important to keep in mind that in order to include an acquisition adjustment in rate base, all requirements must be met. PAWC has failed to provide convincing evidence that Audubon met the third criterion for including the acquisition adjustment in rate base. The third criterion is that, at the time of acquisition, the acquired utility was not furnishing and maintaining adequate, efficient, safe and reasonable service and facilities. Instead, PAWC simply cites the challenges Audubon faced in operating the water system. For instance, PAWC states "the AWC system struggled to provide adequate, efficient, safe and reasonable service and facilities **because** [emphasis added] the owners of the system were of retirement age, they were

no longer able to properly manage and operate the system, and they did not have successors available to assume management of the system."[9] Here, PAWC incorrectly assumed that the age of the system's prior owners was evidence that the acquired utility failed to furnish and maintain adequate, efficient, safe and reasonable service and facilities. In fact, in its most recent rate case filed in December 2024 in Docket No. R-2024-3051816, Audubon presented historical test year labor expenses of over $1,000,000 for labor expenses, excluding officers and executives.[10] This proves the system was not solely dependent on the owners for performing its day-to-day duties and operations.

PAWC also argues that at the time of PAWC's acquisition of the AWC system, AWC faced inadequate water supply and quality issues challenged by proximity to an EPA superfund site; furthermore, AWC's customer base had been increasing with demand outstripping its production levels, and AWC was unable to rely on its water wells to meet its customers' needs.[11] PAWC states further that:

> In addition, eleven out of the system's fifteen wells were tested and found to have detectable levels of PFAS. Moreover, AWC had some secondary exceedances on some of its wells, including two wells with sulphate exceedances that prevented redrilling. As AWC was limited in its sources of supply, AWC would have been forced to construct PFAS treatment for these wells. The cost of constructing and operating these treatment units would have ranged in the tens of millions of dollars, causing a significant financial burden on the system's customers. AWC did not have the ability to spread these costs over a large customer base nor the technical expertise to properly operate these complex treatment units.[12]

Again, these are some of the challenges of operating a water utility and a business, and perhaps, demonstrates that the previous owners of the system,

[9] Direct Testimony of Don Wieczenski at 22:1-4.
[10] Docket No. R-2024-3051816, Schedule I-4, Page 1 of 3.
[11] Direct Testimony of Don Wieczenski at 22:4-8.
[12] *Id.* at 11-19.

despite being of retirement age, still maintained the business acuity to devise an exit strategy. Nevertheless, PAWC has failed to demonstrate the acquired utility was not furnishing and maintaining adequate, efficient, safe and reasonable service and facilities as required by the third criterion of Section 1327. PAWC has also provided no evidence of water shut-offs resulting from inadequate water supply, and PAWC has not provided evidence of any serious health or illnesses being passed on by the water from Audubon. In my opinion, PAWC is attempting to distort business operation challenges in order to justify the inclusion of the acquisition adjustment in rate base.

Another criterion that PAWC has failed to demonstrate is the sixth criterion, which is a finding that the actual purchase price is reasonable. According to PAWC, the purchase price of $7,200,000 includes a Section 1327(a) contingency.[13] In my opinion, the existence of this contingency suggests doubt by the parties to the transaction that the purchase price is reasonable and that the acquisition adjustment is recoverable.

Q. **WHAT ARE THE REASONS PROVIDED BY THE COMPANY FOR REQUESTING SECTION 1327 TREATMENT FOR THE MANWALAMINK WATER AND WASTEWATER SYSTEMS?**

A. According to PAWC, the acquisition of the Manwalamink system qualifies for Section 1327 treatment because:

1) All of the assets acquired by PAWC are used and useful in the public service.

2) The MWC water system has approximately 1,263 customers, which is fewer than 3,300 customer connections.

[13] Direct Testimony of Don Wieczenski at 25:3.

3) The MWC water system struggled to provide and maintain adequate, efficient, safe and reasonable service and facilities because of the age of the owners. The owners of MWC could not maintain adequate, efficient, safe, and reasonable service and facilities due to their advanced age.

4) PAWC will make reasonable and prudent investments to provide adequate, efficient, safe and reasonable service and facilities.

5) MWC agreed to the acquisition and the negotiations were conducted at arm's length.

6) The purchase price of $1,209,000 is reasonable.

7) PAWC is not affiliated with MWC.

8) The transaction will have a de minimus impact on rates because the rates charged to PAWC's preacquisition customers will not increase unreasonably because of the acquisition. The proposed rate base for this system is $1,809,000, which represents less than 0.04% of PAWC's $4.7 billion rate base at the end of the FPFTY.

9) The excess of the acquisition cost over depreciated original cost will be added to rate base to be amortized over 10 years (a reasonable period) with corresponding reductions in the rate base.

Q. **DO YOU AGREE THAT THE MANWALAMINK ACQUISITION MET ALL CRITERIA TO MEET THE SECTION 1327 REQUIREMENTS FOR INCLUSION OF THE ACQUISITION ADJUSTMENT IN RATE BASE?**

A. No. I do not. In my opinion, PAWC has not demonstrated that all criteria under Section 1327 have been met. PAWC has failed to provide convincing evidence that Audubon met the third criterion for including the acquisition adjustment in rate base.

First, PAWC has not met criterion number three under Section 1327. According to the third criterion, at the time of acquisition, PAWC claims the acquired utility was not furnishing and maintaining adequate, efficient, safe and reasonable service and facilities. However, the only evidence offered was PAWC's simple assertion that the prior owners of Manwalamink could not maintain adequate, efficient, safe, and reasonable service and facilities due to their advanced age.

In fact, during the acquisition proceeding (Docket Nos. A-2023-3044418; A-2023-3044419; A-2023-3044421 and A-2023-3044422), no party, including PAWC, claimed that Manwalamink was not furnishing and maintaining adequate, efficient, safe and reasonable service and facilities. In the acquisition proceeding, Manwalamink's testimony revealed that the age of the owners was irrelevant to the day-to-day operation of the system. However, in this proceeding, PAWC is now claiming that Manwalamink struggled to provide and maintain adequate, efficient, safe and reasonable service and facilities because of the age of the owners. Manwalamink's witness Robert A. Shebelsky, the then Chairman and CEO of Manwalamink Water Company and Manwalamink Sewer Company, testified that he was responsible for overseeing all aspects of the business of both companies. He explained that the main rationale for the sale of Manwalamink was the ages of the owners and a key employee, however, he indicated that Manwalamink retained EEMA O&M Services Group, Inc. to cover day to day operations.[14] It is important to recognize this fact to dispel the notion put forth by PAWC that Manwalamink's system operations, service and facilities had deteriorated because of the age of the owners of the system.

A. The second criterion that PAWC has not met is the purchase price of the system. In the acquisition proceeding, the OCA found that the combined purchase price for the system was an amount adopted from a previous third party-negotiated sale purchase agreement decided before Manwalamink became a target of acquisition by PAWC. Accordingly, PAWC accepted the purchase price as part of the deal which PAWC took assignment of the sale purchase agreement that was previously negotiated by another party.[15]

[14] Docket Nos. A-2023-3044418; A-2023-3044419; A-2023-3044421 and A-2023-3044422, Direct Testimony of Robert A. Shebelsky at 6:7-16.
[15] Docket Nos. A-2023-3044418; A-2023-3044419; A-2023-3044421 and A-2023-3044422, Direct Testimony of Lafayette Morgan, Jr. at 13:17-14:18.

Hence, it is unclear if PAWC can attest that the purchase price was reasonable or that the purchase price was the result of an arm's length negotiation between PAWC and Manwalamink. In fact, the data showed that PAWC offered to pay a price that was 111% in excess of book value[16] for a system that PAWC now claims was providing inadequate service.

2. Payroll Expense

Q. **PLEASE EXPLAIN YOUR ADJUSTMENT TO PAYROLL EXPENSE.**

A. The Company calculated its annualized payroll expense based on a total of 1,278 full-time equivalent employees as the appropriate staffing level for the Company's water and wastewater operations in the FPFTY. As of the end of the HTY, there were 72 open positions including 12 newly created positions. According to the Company, it has assumed a full complement of employees in the derivation of its annual payroll expense claim.

3. Incentive Compensation Expense

Q. **PLEASE EXPLAIN YOUR ADJUSTMENT TO INCENTIVE COMPENSATION EXPENSE.**

A. PAWC has established a policy whereby a portion of its employee compensation is considered to be performance-based with the intent of driving employee performance. I have reviewed the calculation of the performance-based compensation and removed the component of the performance pay related to achievement of earnings goals. The achievement of earnings goals is primarily targeted towards increasing shareholder value and benefiting shareholders. Therefore, these costs are not properly recoverable from ratepayers for several reasons.

[16] *Id* at 15.

First, if the financial targets are set properly, achieving the necessary performance should be self-supporting. This means that the measures that achieve additional cost savings, increase revenue, or otherwise improve financial results should generate the necessary income to cover the incentive plan payments. Second, these payments are not tied to ratepayer benefits such as meeting quality of service, operational efficiency, or conservation goals. Finally, the incentive to improve financial performance is not necessarily consistent with the interests of PAWC's ratepayers, but, instead, is more aligned with shareholders' interests. Shareholder value has a correlation to earnings, so when improved earnings are reported, shareholder value improves but rates do not go down. Thus, the beneficiaries of the improved earnings are the shareholders. Therefore, it is appropriate for shareholders, not ratepayers, to bear these costs.

4. Towamencin Township Transaction Costs

Q. **PLEASE EXPLAIN YOUR ADJUSTMENT TO THE TOWAMENCIN TRANSACTION COSTS.**

A. On May 15, 2023, PAWC filed an application with the Commission under Sections 1102(a) and 1329 of the Code, 66 Pa. C.S. Sections 1102(a) and 1329, for approval of the right to acquire substantially all of the wastewater system assets of Towamencin Township ("Towamencin"). Additionally, on May 12, 2023, Towamencin filed an application, nunc pro tunc, (the "Nunc Pro Tunc Application") to offer, furnish, render or supply wastewater service to the public in certain portions of Worcester, Lower Salford, and Franconia Townships and Lansdale Borough in Montgomery County, Pennsylvania at Docket No. A-2023-3040661.[17]

[17] Docket Nos. A-2023-3039900 & A-2024-3050135, September 24, 2024, Commission Letter to the Joint Applicants legal representatives.

On January 18, 2024, the Commission approved in its entirety the Amended Joint Petition for Non-Unanimous Settlement filed November 1, 2023, for the Nunc Pro Tunc Application. On February 7, 2024, the Commission issued a Certificate of Public Convenience ("Towamencin CPC") to Towamencin. This action was taken pursuant to Section 1101 of Code, 66 Pa. C.S. Section 1101. The certificate authorized Towamencin, nunc pro tunc, to begin to offer, render, furnish and supply wastewater service to the public in a portion of Worchester Township and Lower Salford Township, and to bulk customers that interconnect to Towamencin's sewer system outside of Towamencin's geographic boundaries. This authorization is consistent with the revised map and written description of the requested service territory provided in the Amended Joint Petition for Non-Unanimous Settlement and admitted Stipulated Exhibits, effective January 18, 2024.[18]

On September 12, 2024, the Joint Applicants filed a letter with the Commission at the above-referenced dockets indicating that on September 11, 2024, PAWC-WD and Towamencin had mutually agreed to terminate the underlying transaction that was the subject of the Joint Application and requested leave to withdraw the Joint Application.[19]

In accordance with 52 Pa. Code Section 1.82(a), no party objected to the letter petition within 10 days of service, and the matter was stricken by the Commission. Effective September 23, 2024, the above-referenced Joint Application was withdrawn and the Commission's proceedings were marked closed.[20]

In this proceeding, PAWC is seeking to recover $660,138, amortized over 10 years, in transaction costs related to this matter. Given that the transaction was withdrawn and

[18] *Id.*
[19] *Id.*
[20] *Id.*

closed, I do not believe it is appropriate to recover the transaction costs, related to the withdrawn transaction, from ratepayers. PAWC made a business decision to pursue the acquisition of the Towamencin system. That decision came with certain risks that PAWC must bear. The existing PAWC ratepayers should not be required to absorb the costs related to the failed transaction.

5. Group Insurance Expense

Q. **PLEASE EXPLAIN YOUR ADJUSTMENT TO GROUP INSURANCE EXPENSE.**

A. The Company derived the FPFTY group insurance expense based upon the three-year average from the years 2023 through 2026. According to the Company, the 3-year average was used because the 2027 group insurance rates are not yet known. However, the 3-year average of the rates from a historical period is more reflective of actuarial factors that were relevant at that time, rather than being predictive of the conditions during the FPFTY.

Therefore, the adjustment I recommend is to use the 2026 group insurance rates because they are most recent known rates and more aligned with current actuarial considerations.

6. Transportation Expense

Q. **PLEASE EXPLAIN YOUR ADJUSTMENT TO TRANSPORTATION EXPENSE.**

A. The FPFTY transportation expense was derived from the number of units in the Company's fleet, the average monthly leasing fees, and the inclusion of other transportation expenses (e.g., fuel and titling). In addition, the Company applied a

6.94% inflation factor to certain expenses, based on the three-year average (2023-2025) of the Consumer Price Index ("CPI") for Transportation Services.

I am recommending an adjustment that removes the inflation escalation effect from the projected FPFTY expenses. There are two primary reasons for the inflation escalation. First, historical inflation rates are not good predictors of future inflation, as demonstrated by current inflation rates compared to rates during 2023. For example, using the data presented by the Company between December 2023 and December 2024, the transportation CPI increased by an annual rate of 7.47%. However, between December 2024 and December 2025 the transportation CPI increased by an annual rate of 1.72%. Clearly the rate of inflation has decreased when compared to the three-year average used by the Company. Second, the Company's historical data reveals that these expenses, to which the inflation rate was applied, did not follow the inflation trend. For example, fuel expenses decreased from the historical period to 2025. Additionally, titling and registration fees are generally fixed until changed by jurisdictional authority. Therefore, I believe the Company's approach is unreasonable.

7. <u>PURTA Tax</u>

Q. **PLEASE EXPLAIN YOUR ADJUSTMENT TO PURTA EXPENSE.**

A. In PAWC's cost of service, it included $ $2,161,310 in Public Utility Realty Tax Act ("PURTA") expense. The Pennsylvania Department of Revenue released notices indicating that the PURTA rate for calendar years 2025 and 2026 will be 0 mills. This means there will be no PURTA expense for those years. Therefore, I am recommending an adjustment on Exhibit LKM-15 that reduces PURTA expense by $1,410,000.

8. Interest Synchronization

Q. **PLEASE EXPLAIN YOUR INTEREST SYNCHRONIZATION ADJUSTMENT.**

A. To determine the tax deductible interest expense for ratemaking, I multiplied the OCA's recommended rate base by the weighted cost of debt included in the capital structure recommended by the OCA's rate of return expert, David Garrett.[21] This procedure synchronizes the interest expense deduction for tax purposes with the interest component of the return on rate base to be recovered from ratepayers.

9. Pension and OPEB Expense and Request for Deferred Accounting Treatment

Q. **PLEASE EXPLAIN THE COMPANY'S PROPOSED PENSION AND OPEB EXPENSE CLAIM AND ITS REQUEST FOR A DEFERRED ACCOUNTING MECHANISM.**

A. For ratemaking and financial reporting purposes, PAWC uses the accrual basis to record and recover pension and OPEB expenses. As such, the Company's pension and OPEB claims in this case are based on its 2025 pension and OPEB actuarial reports. This practice of using the accrual method to record these expenses is consistent with Financial Accounting Standard Board Accounting Standards Codification ("ASC") 715. Under the accrual approach, the expense is recognized during the period which the employee provides service to their employer. However, for ratemaking, in the Company's last rate case, the Company's recovery in rates for pension and OPEB was based upon a 3-year average of the accrual amount.

The Company's position is that the 3-year average approach is not appropriate to determine the amount allowed in rates to recover OPEB and Pension Expenses and

[21] *See* OCA Statement No. 2 at ___

blames the 3-year average for significant under-recovery of costs. Hence, PAWC is requesting Commission authorization to establish regulatory accounts for its pension and OPEB expenses.

Q. **DO YOU AGREE THAT A DEFERRED ACCOUNT IS NECESSARY?**

A. No. When using a fully projected test year, it is impossible to project future expenses with100% accuracy. In fact, the nature of ratemaking usually results in actual amounts that differ from the projections. Some expenses are higher than projected, while others are lower. The deferred accounting proposal amounts to single issue ratemaking. Here, the Company is asking for special treatment of these expenses while all other costs are subject to the standard ratemaking process. Moreover, a less-than-full recovery does not create a cash flow deficit, as these expenses are accruals rather than require immediate cash requirements. The use of a deferred account mechanism for pension and OPEB expenses would set a precedent that encourages additional requests for similar treatment for other costs. Finally, the deferred account mechanism is retroactive ratemaking that requires future ratepayers to pay for costs caused by current ratepayers. In other words, it shifts the cost burden from the current ratepayers that receive the benefits of the service and imposes those costs on future ratepayers. Retroactive ratemaking is not allowed under traditional ratemaking practice, and it is also not allowed by this Commission. For these reasons, I recommend that the request for the deferred mechanism be denied.

Q. **DOES THIS COMPLETE YOUR DIRECT TESTIMONY?**

A. Yes, it does.

1

BEFORE THE

PENNSYLVANIA PUBLIC UTILITY COMMISSION

CITY OF LANCASTER GENERAL RATE INCREASE FILED PURSUANT TO 52 PA. CODE § 53.45(A)	: : :	DOCKET NO. R-2025-3057237

EXHIBITS ACCOMPANYING
DIRECT TESTIMONY
OF
LAFAYETTE K. MORGAN, JR.

OCA Statement 1

BEFORE THE

PENNSYLVANIA PUBLIC UTILITY COMMISSION

CITY OF LANCASTER GENERAL RATE INCREASE FILED PURSUANT TO 52 PA. CODE § 53.45(A)	: : :	DOCKET NO. R-2025-3057237

DIRECT TESTIMONY
OF
LAFAYETTE K. MORGAN, JR.

Appendix A

Pennsylvania-American Water Company
Summary
For the Future Test Year Ended June 30, 2027

Line No.	Description	Total Company	Water Operations	Wastewater SSS General Operations	BASA Wastewater Operations	CSS Wastewater Operations	Elizabeth Borough CSS Wastewater Operations
1	Present Rate Revenue	$ 1,156,621,085	$ 947,784,779	$ 108,561,975	$ 12,748,475	$ 85,758,589	$ 1,767,267
2	Additional Revenue Requirement	(17,331,252)	(40,375,116)	2,689,455	20,706,700	(3,085,512)	2,733,221
3	Act 11 - Wastewater Allocation	-	53,010,182	(12,710,621)	(30,280,040)	(7,062,475)	(2,957,133)
4	Proposed Revenues	$ 1,139,289,833	$ 960,419,845	$ 98,540,809	$ 3,175,135	$ 75,610,602	$ 1,543,355
5							
6	Rate Increase/ (Decrease)	(17,331,252)	12,635,066	(10,021,166)	(9,573,340)	(10,147,987)	(223,912)
7		-1.5%	1.3%	-9.2%	-75.1%	-11.8%	-12.7%

Source: Company Exhibit 3-A.

Pennsylvania-American Water Company
Water Operations
Cost of Service
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Company Amounts at Present Rates [1/]	OCA Adjustments	Amounts After OCA Adjustments	Pro Forma Change in Revenues	Amounts After Change in Revenues
1	Total Operating Revenues	$ 947,784,779	$ -	$ 947,784,779	$ (40,375,116)	$ 907,409,663
2						
3	Operating Expenses					
4	Operation and Maintenance	282,731,634	(7,300,132)	275,431,502	(442,915)	274,988,587
5	Depreciation	227,310,354	(36,952,810)	190,357,544		190,357,544
6	Amortizations	1,268,715	(520,652)	748,063	-	748,063
7	Total Operating Expenses	$ 511,310,703	$ (44,773,594)	$ 466,537,109	$ (442,915)	$ 466,094,194
8						
9	Operating Income Before Income Taxes	$ 436,474,076	$ 44,773,594	$ 481,247,670	$ (39,932,201)	$ 441,315,469
10						
11	Taxes					
12	Taxes Other Than Income	$ 17,198,781	$ (2,655,801)	$ 14,542,980	$ (294,187)	$ 14,248,793
13	Federal Income Tax	45,853,646	9,280,523	55,134,169	(7,742,137)	47,392,032
14	State Income Tax	19,475,137	3,321,243	22,796,380	(2,770,697)	20,025,683
15	Deferred Income Taxes	(233,592)		(233,592)	-	(233,592)
16	Net Income	$ 354,180,104	$ 34,827,630	$ 389,007,734	$ (29,125,180)	$ 359,882,554
17						
18	Rate Base	$ 5,174,843,488		$ 5,170,726,338		$ 5,170,726,338
19						
20	Rate of Return	6.84%		7.52%		6.96%
21						

Source: Company Exhibit 3-A, Water Operations, Page 1.

Pennsylvania-American Water Company
Water Operations
Summary of Revenue Increase at OCA Rate of Return
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description		Amount
1	Adjusted Rate Base		$ 5,170,726,338 [1/]
2	Required Rate of Return		6.96% [2/]
3			
4	Net Operating Income Required		$ 359,882,553
5	Net Operating Income at Present Rates		389,007,734 [3/]
6			
7	Income Deficiency/(Surplus)		$ (29,125,181)
8	Revenue Multiplier		1.386261
9			
10	Required Change in Company Revenue		$ (40,375,116)
11			
12	Proposed Revenue Change		$ (40,375,116)
13	Less: Uncollectibles	1.0970% [5/]	$ (442,915)
14	Net of Uncollectibles		$ (39,932,201)
15	Less: Regulatory Fees	0.7367% [6/]	$ (294,187)
16	Net of Regulatory Fees		$ (39,638,014)
17	Less: State Income Tax @ 6.99%	6.99% [7/]	$ (2,770,697)
18	Income Before Federal Taxes		$ (36,867,317)
19	Federal Income Tax @ 21.0%	21.00% [7/]	(7,742,137)
20	Net Income (Surplus)/Deficiency		$ (29,125,180)

Note:
[1/] Exhibit LKM-2, Page 1.
[2/] Exhibit LKM-5.
[3/] Exhibit LKM-1, Page 1.
[4/] Company filing Volume 3, Water Operations, page 68.
[5/] Company filing Volume 3, Water Operations, page 124.
[6/] Company filing Volume 3, Water Operations, page 70.
[7/] Company filing Volume 3, Water Operations, page 72.

Pennsylvania-American Water Company
Water Operations
Summary of Rate Base
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount per Company Filing	OCA Adjustments	Amount After OCA Adjustments
1	Utility Plant			
2	Non-Depreciable Plant	$ 24,847,632	$ -	$ 24,847,632
3	Depreciable Plant	8,262,267,383	-	8,262,267,383
4	Total Utility Plant	$ 8,287,115,015	$ -	$ 8,287,115,015
5				
6	Utility Plant Deductions			
7	Contributions in Aid of Construction	309,073,376		309,073,376
8	Customer Advances for Construction	72,509,763		72,509,763
9	Excluded Property	1,558,014		1,558,014
10	Total Utility Plant Deductions	$ 383,141,153	$ -	$ 383,141,153
11				
12	Net Plant	$ 7,903,973,862	-	$ 7,903,973,862
13				
14	Accumulated Depreciation	1,629,875,724.00		1,629,875,724
15	Depreciated Utility Plant in Service	$ 6,274,098,138	$ -	$ 6,274,098,138
16				
17	Additions to Net Plant			
18	Materials and Supplies	23,643,737		23,643,737
19	Cash Working Capital - Expenses	25,170,058		25,170,058
20	Accrued and Prepaid Taxes	5,634,190		5,634,190
21	Acquisition and Adjustments	9,782,100	$ (4,117,150)	5,664,950
22	Other Additions	2,612,252		2,612,252
23	Total Additions	$ 66,842,337	$ (4,117,150)	$ 62,725,187
24	Deductions to Net Plant			
25	Cash Working Capital - Int and Div	13,624,599		13,624,599
26	Unamortized ITC (3%)	189,479		189,479
27	Extension Deposits in Suspense	38,165		38,165
28	Citizens Acquisition of CIAC & CAC, per Settlement	16,890,221		16,890,221
29	TCJA - Stub Period	-		-
30	Other Deductions	376,128		376,128
31	Deferred Taxes	1,134,978,395	-	1,134,978,395
32	Total Deductions	$ 1,166,096,987	$ -	$ 1,166,096,987
33	Total Rate Base	$ 5,174,843,488	$ (4,117,150)	$ 5,170,726,338

Source: Company Exhibit 3-A, Water Operations, Page 26.

Pennsylvania-American Water Company
Water Operations
Summary of Rate Base Adjustments
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Source	Amount
1	Rate Base per Company Filing		$ 5,174,843,488
2			
3	OCA Adjustments:		
4	Remove Water Acquisition Adjustments		(4,117,150)
5			
6			
7	Total Ratemaking Adjustments		$ (4,117,150)
8			
9	Adjusted Rate Base per OCA		$ 5,170,726,338

Pennsylvania-American Water Company
Water Operations
Summary of Adjustments to Operating Income
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Operating Revenues	Operation and Maintenance	Depreciation Expense	Amortization Expense	Taxes Other Than Income	State Income Tax	Federal Income Tax	Operating Income
1	Amount per Company	$947,784,779	$282,731,634	$227,310,354	$ 1,268,715	$17,198,781	$19,475,137	$45,620,054	$ 354,180,104
2									
3	OCA Adjustments:								
4	Salaries and Wages	$ -	($1,900,628)	$ -	$ -	($145,398)	$ 143,017	$ 399,632	$ 1,503,377
5	Annual Performance Pay	-	(4,554,381)	-	-	(349,093)	342,753	957,751	3,602,970
6	Group Insurance	-	(441,433)	-	-	-	30,856	86,221	324,356
7	Transsportation Expense	-	(403,691)	-		-	28,218	78,849	296,624
8	Adjustment to Acquisition Amortization	-	-	-	(453,264)	-	31,683	88,532	333,049
9	Transaction Costs Amortization	-	-	-	(67,388)	-	4,710	13,162	49,515
10	Remove PURTA	-	-	-	-	(2,161,310)	151,076	422,149	1,588,085
11	Change in Depreciation Rates	-	-	(36,952,810)	-	-	2,583,001	7,217,660	27,152,149
12	Interest Synchronization	-	-	-	-	-	5,928	16,566	(22,494)
13									
14	Total OCA Adjustments	$ -	$ (7,300,132)	$ (36,952,810)	$ (520,652)	$ (2,655,801)	$ 3,321,243	$ 9,280,523	$ 34,827,630
15									
16	Total Adjusted Income Before Income Taxes	$947,784,779	$275,431,502	$190,357,544	$ 748,063	$14,542,980	$48,941,297	$28,755,660	$ 389,007,734

Pennsylvania-American Water Company
Water Operations
Adjustment to Salaries and Wages Expense
For the Fully Projected Future Test Year Ending June 30, 2027

	2027	Budgeted Number of Employees [1/]	Average Salary And Wages per Employee	Number of Employees Adjusted for Vacancy	Adjusted FPFTY Salaries & Wages	Adjustment to Salaries & Wages	Budgeted Positions Filled Rate
	(a)	(b)	(c)=a/b	(d)=b X f	(e)=c X d	(f)=e-a	(f)
Water Operations							
Non-Collective Bargaining Unit Salary	$34,519,930						
Collective Bargaining Unit	52,644,229						
Non-Collective Bargaining Unit Hourly	18,426,280						
Total	$105,590,439	1,068	$98,867.45	1,049	$103,689,811	($1,900,628)	98.2%
Payroll Tax Effect (@7.65%)						($145,398)	
Wastewater SSS General Operations							
Non-Collective Bargaining Unit Salary	$1,494,355						
Collective Bargaining Unit	1,503,855						
Non-Collective Bargaining Unit Hourly	3,864,243						
Total	$6,862,453	79	$86,866.49	77	$6,677,167	($185,286)	97.3%
Payroll Tax Effect (@7.65%)						($14,174)	
BASA WW Operations							
Non-Collective Bargaining Unit Salary	$471,557						
Collective Bargaining Unit	2,230,662						
Non-Collective Bargaining Unit Hourly	63,058						
Total	$2,765,276	29	$95,354.36	29	$2,754,215	($11,061)	99.6%
Payroll Tax Effect (@7.65%)						($846)	
Wastewater CSS Operations							
Non-Collective Bargaining Unit Salary	$1,112,821						
Collective Bargaining Unit	7,611,368						
Non-Collective Bargaining Unit Hourly	108,323						
Total	$8,832,512	99	$89,443.16	98	$8,797,182	($35,330)	99.6%
Payroll Tax Effect (@7.65%)						($2,703)	

Notes
[1/] I&E RE-018-D_Attachment 1

Pennsylvania-American Water Company
Water Operations
Adjustment to Annual Performance Pay
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount [1/]	Earnings-Related Percentage [2/]	Adjustment to Annual Performance Pay
		(a)	(b)	(c)
1	**Water Operations**			
2	Non-Collective Bargaining Unit Salary	$6,213,845		
3	Collective Bargaining Unit	1,706,222		
4	Non-Collective Bargaining Unit Hourly	1,188,694		
5	Total	$9,108,761	50%	($4,554,381)
6	Payroll Tax Effect (@7.65%)			($349,093)
7	**Wastewater SSS General Operations**			
8	Non-Collective Bargaining Unit Salary	$195,340		
9	Collective Bargaining Unit	52,940		
10	Non-Collective Bargaining Unit Hourly	261,680		
11	Total	$509,960	50%	($254,980)
12	Payroll Tax Effect (@7.65%)			($19,544)
13	**BASA WW Operations**			
14	Non-Collective Bargaining Unit Salary	$61,553		
15	Collective Bargaining Unit	84,046		
16	Non-Collective Bargaining Unit Hourly	4,414		
17	Total	$150,013	50%	($75,007)
18	Payroll Tax Effect (@7.65%)			($5,749)
19	**Wastewater CSS Operations**			
20	Non-Collective Bargaining Unit Salary	$141,082		
21	Collective Bargaining Unit	253,139		
22	Non-Collective Bargaining Unit Hourly	12,994		
23	Total	$407,215	50%	($203,608)
	Payroll Tax Effect (@7.65%)			($15,607)

Notes
[1/] EXHIBIT NO. 3-B, Page 62.
[2/] FR III.22

Pennsylvania-American Water Company
Water Operations
Adjustment to Group Insurance Expense
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount
	Water Operations	
1	PAWC Pro forma Adjustment to Group Inusrance Expense	$ 441,433 [1/]
2		
3	Adjustment to Insurance Escalation	$(441,433)
4		
5	Waterwater SS Operations	
6	PAWC Pro forma Adjustment to Group Inusrance Expense	$ 47,250 [2/]
7		
8	Adjustment to Insurance Escalation	$ (47,250)
9		
10	BASA WW Operations	
11	PAWC Pro forma Adjustment to Group Inusrance Expense	$ 17,996 [3/]
12		
13	Adjustment to Remove Insurance Escalation	$ (17,996)
14		
15	Wastewater CSS Operations Operations	
16	PAWC Pro forma Adjustment to Group Inusrance Expense	$ 56,590 [4/]
17		
18	Adjustment to Remove Insurance Escalation	$ (56,590)

Notes:
[1/] PAWC Exhibit No. 3A, Page 49.
[2/] PAWC Exhibit No. 3A, Page 111.
[3/] PAWC Exhibit No. 3A, Page 159.
[4/] PAWC Exhibit No. 3A, Page 208.

Pennsylvania-American Water Company
Water Operations
Adjustment toTransportation Expense
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount
1	**Water Operations**	
2	OCA FPFTY Transportation Expenses	$2,917,533
3	PAWC FPFTY Transportation Expenses	3,321,224
4	Adjustment to Transportation Expenses	(403,691)
5		
6		
7	**Wastewater SSS General Operations**	
8	OCA FPFTY Transportation Expenses	$148,752
9	PAWC FPFTY Transportation Expenses	168,807
10	Adjustment to Transportation Expenses	(20,055)
11		
12		
13	**BASA WW Operations**	
14	OCA FPFTY Transportation Expenses	$54,333
15	PAWC FPFTY Transportation Expenses	61,692
16	Adjustment to Transportation Expenses	(7,359)
17		
18		
19	**Wastewater CSS Operations**	
20	OCA FPFTY Transportation Expenses	$389,061
21	PAWC FPFTY Transportation Expenses	442,804
22	Adjustment to Transportation Expenses	12,994

Docket No. R-2025-3057983 (Water)
& R-2025-3058051 (Wastewater)
Exhibit LKM -8W

Pennsylvania-American Water Company
Water Operations
Adjustment to Acquisition and Transaction Costs
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Rate Base Amount	Annual Amortization
1	Water Acquisition Adjustments		
2	Farmington Township (Water)	$ 123,028	$ 13,544
3	Audubon Water	2,942,792	323,977
4	Manwalamink Water	1,051,330	115,743
5		$ 4,117,150	$ 453,264
6	Sewer Acquisition Adjustments		
7	Farmington Township (Water)	$ 961,320	$ 105,833
8			
9	Transaction Costs		
10	Manwalamink Water Transactions Costs - Initial Nextera Bid		$ 1,374
11	Towamencin Township		66,014
			$ 67,388

Pennsylvania-American Water Company
Water Operations
Adjustment to Remove PURTA Expense
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount
	Water Operations	
1	Total PURTA	$ 2,161,310 [1/]
2		
3	Adjustment to Taxes Other Than Income	$(2,161,310)
4		

Note:
[1/] PAWC Exhibit No. 3A, page 68.

Docket No. R-2025-3057983 (Water)
& R-2025-3058051 (Wastewater)
Exhibit LKM -10W

Pennsylvania-American Water Company
Water Operations
Interest Synchronization Adjustment
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount	
1	Company Rate Base	$ 5,170,726,338	1/
2	Weighted Cost of Debt	2.060%	2/
3	Adjusted Interest Deduction	$ 106,516,963	
4	Interest Deduction Per Company	106,601,776	3/
5	Adjustment to Synchronize Interest Expense	$ (84,813)	
6	Effective State Income Tax Rate	6.99%	
7	Adjustment to State Income Taxes	$ 5,928	
8	Federal Income Tax Base	$ (78,885)	
9	Federal Income Tax Rate	21.00%	
10	Adjustment to Federal Income Taxes	$ 16,566	

Notes:
1/ Exhibit LKM-2, Page 1.
2/ See Exhibit LKM-__
3/ Exhibit No. 3A, Page 72

Pennsylvania-American Water Company
Water Operations
Calculation of Rate of Return
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Capitalization Ratio	Cost Rate	Weighted Cost
1	Debt	43.70%	4.71%	2.06%
2	Prefered Stock	0.00%		0.00%
3	Common Stock	56.30%	8.70%	4.90%
4				
5	Total	100.00%		6.96%

Source:
Recommended by OCA witness Garrett

Pennsylvania-American Water Company
Wastewater SSS Operations
Cost of Service
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Company Amounts at Present Rates [1/]	OCA Adjustments	Amounts After OCA Adjustments	Pro Forma Change in Revenues	Amounts After Change in Revenues
1	Total Operating Revenues	$ 108,561,975	$ -	$ 108,561,975	$ 2,689,455	$ 111,251,430
2						
3	Operating Expenses					
4	Operation and Maintenance	$ 29,374,837	$ (507,572)	28,867,265	29,503	28,896,768
5	Depreciation	28,338,641	(5,801,678)	22,536,963	-	22,536,963
6	Amortizations	255,169	(173,221)	81,948	-	81,948
	Total Operating Expenses	57,968,647	(6,482,471)	$ 51,486,176	$ 29,503	$ 51,515,679
7	Taxes Other Than Income					
8	Local Property And Miscellaneous	1,251,643	-	$ 1,251,643	$ -	$ 1,251,643
9	Federal Environmental Tax	-	-	-	-	-
10	Public Utility Realty Taxes	-	-	-	-	-
11	Payroll Taxes	468,931	($33,719)	435,212	-	435,212
12	General Assessment	775,917	-	775,917	19,596	795,513
13	Other Taxes and Licenses	-	-	-	-	-
14	Total Taxes Other Than Income	2,496,491	(33,719)	$ 2,462,772	$ 19,596	$ 2,482,368
15	Income Taxes					
16	Federal Income Tax	8,176,053	1,276,429	$ 9,452,482	$ 515,717	$ 9,968,199
17	State Income Tax	3,134,563	456,799	3,591,362	184,561	3,775,923
18	Deferred Income Taxes	-	-	-	-	-
19						
20	Total Operating Revenue Deductions	71,775,754	(4,782,962)	$ 66,992,792	$ 749,377	$ 67,742,169
21						
22	Net Income	$ 36,786,221	$ 4,782,962	41,569,183	1,940,078	43,509,261
23						
24	Rate Base	$ 661,192,899		$ 660,231,579		$ 660,231,579
25						
26	Rate of Return	5.56%		6.30%		6.59%

Source: Company Exhibit 3-A, Wastewater SSS General Operations, Page 75.

Pennsylvania-American Water Company
Wastewater SSS Operations
Summary of Revenue Increase at OCA Rate of Return
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description		Amount	Source
1	Adjusted Rate Base		$ 660,231,579	1/
2	Required Rate of Return		6.59%	2/
3				
4	Net Operating Income Required		43,509,261	
5	Net Operating Income at Present Rates		41,569,183	3/
6				
7	Income Deficiency/(Surplus)		1,940,078	
8	Revenue Multiplier		1.386261	
9				
10	Required Change in Company Revenue		$ 2,689,455	
11				
12	Proposed Revenue Change		$ 2,689,455	
13	Less: Uncollectibles	1.097% 5/	$ 29,503	
14	Net of Uncollectibles		$ 2,659,952	
15	Less: Regulatory Fees	0.7367% 6/	$ 19,596	
16	Net of Regulatory Fees		$ 2,640,356	
17	Less: State Income Tax @ 6.99%	6.99% 7/	$ 184,561	
18	Income Before Federal Taxes		$ 2,455,795	
19	Federal Income Tax @ 21.0%	21.00% 7/	515,717	
20	Net Income (Surplus)/Deficiency		$ 1,940,078	

Note:
1/ Exhibit LKM-2, Page 1.
2/ Exhibit LKM-5.
3/ Exhibit LKM-1, Page 1.
4/ Company filing Volume 3, Water Operations, page 68.
5/ Company filing Volume 3, Water Operations, page 124.
6/ Company filing Volume 3, Water Operations, page 70.
7/ Company filing Volume 3, Water Operations, page 72.

Pennsylvania-American Water Company
Wastewater SSS Operations
Summary of Rate Base
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount per Company Filing	OCA Adjustments	Amount After OCA Adjustments
1	Utility Plant			
2	Non-Depreciable Plant	$ 16,212,406		$ 16,212,406
3	Depreciable Plant	1,062,716,141		1,062,716,141
4	Total Utility Plant	$ 1,078,928,547	$ -	$ 1,078,928,547
5				
6	Utility Plant Deductions			
7	Contributions in Aid of Construction	52,292,101		52,292,101
8	Customer Advances for Construction	1,543,112		1,543,112
9	Excluded Property	-		-
10	Total Utility Plant Deductions	$ 53,835,213	$ -	$ 53,835,213
11				
12	Net Plant	$ 1,025,093,334	-	$ 1,025,093,334
13				
14	Accumulated Depreciation	293,111,426.00		293,111,426
15	Depreciated Utility Plant in Service	$ 731,981,908	$ -	$ 731,981,908
16	Additions to Net Plant			
17	Materials and Supplies	383,143		383,143
18	Cash Working Capital - Expenses	2,268,679		2,268,679
19	Accrued and Prepaid Taxes	926,154		926,154
20	Acquistion and Adjustmnets	4,644,045	$ (961,320)	3,682,725
21	Other Additions	-		-
22	Total Additions	$ 8,222,021	$ (961,320)	$ 7,260,701
23	Deductions to Net Plant			
24	Cash Working Capital - Int and Div	1,783,056		1,783,056
25	Unamortized ITC (3%)	-		-
26	Extension Deposits in Suspense	-		-
27	Citizens Acquisition of CIAC & CAC, per Settlement	-		-
28	TJAC - Stub Period	-		-
29	Other Deductions	-		-
30	Deferred Taxes	77,227,974	-	77,227,974
31	Total Deductions	$ 79,011,030	$ -	$ 79,011,030
32				
33	Rate Base	$ 661,192,899	$ (961,320)	$ 660,231,579

Source: Company Exhibit 3-A, Wastewater SSS General Operations, Page 94.

Pennsylvania-American Water Company
Wastewater SSS Operations
Summary of Rate Base Adjustments
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Source	Amount
1	Rate Base per Company Filing		$ 661,192,899
2			
3	OCA Adjustments:		
4	Remover Sewer Acquisition Adjusatment		(961,320)
5			
6			
7	Total Ratemaking Adjustments		$ (961,320)
8			
9	Adjusted Rate Base per OCA		$ 660,231,579

Pennsylvania-American Water Company
Wastewater SSS Operations
Summary of Adjustments to Operating Income
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Operating Revenues	Operation and Maintenance	Depreciation	Amortizations	Taxes Other Than Income	State Income Tax	Federal Income Tax	Operating Income
1	Amount per Company	$ 108,561,975	$ 29,374,837	$ 28,338,641	$ 255,169	$ 2,496,491	$ 3,134,563	$ 8,176,053	$ 36,786,221
2									
3	OCA Adjustments:								
4	Salaries and Wages	-	($185,286)	-	-	($14,174)	13,942	38,959	$ 146,559
5	Annual Performance Pay	-	($254,980)	-	-	($19,544)	19,189	53,620	201,715
6	Group Insurance	-	(47,250)	-	-	-	3,303	9,229	34,719
7	Transportation	-	(20,055)	-	-	-	1,402	3,917	14,736
8	Acqusition Amortization	-	-	-	(173,221)	-	12,108	33,834	127,279
9		-	-	(5,801,678)	-	-	405,537	1,133,190	4,262,951
10		-	-	-	-	-	-	-	-
11	Interest Synchronization	-	-	-	-	-	1,317	3,680	(4,997)
12									
13	Total OCA Adjustments	$ -	$ (507,572)	$ (5,801,678)	$ (173,221)	$ (33,719)	$ 456,799	$ 1,276,429	$ 4,782,962
14									
15	Total Adjusted Income Before Income T	$ 108,561,975	$ 28,867,265	$ 22,536,963	$ 81,948	$ 2,462,772	$ 8,632,852	$ 4,410,992	$ 41,569,183

Pennsylvania-American Water Company
Wastewater SSS Operations
Adjustment to Salaries and Wages Expense
For the Fully Projected Future Test Year Ending June 30, 2027

	2027	Budgeted Number of Employees [1/]	Average Salary And Wages per Employee	Number of Employees Adjusted for Vacancy	Adjusted FPFTY Salaries & Wages	Adjustment to Salaries & Wages	Budgeted Positions Filled Rate
	(a)	(b)	(c)=a/b	(d)=b X f	(e)=c X d	(f)=e-a	(f)
Water Operations							
Non-Collective Bargaining Unit Salary	$34,519,930						
Collective Bargaining Unit	52,644,229						
Non-Collective Bargaining Unit Hourly	18,426,280						
Total	$105,590,439	1,068	$98,867.45	1,049	$103,689,811	($1,900,628)	98.2%
Payroll Tax Effect (@7.65%)						($145,398)	
Wastewater SSS General Operations							
Non-Collective Bargaining Unit Salary	$1,494,355						
Collective Bargaining Unit	1,503,855						
Non-Collective Bargaining Unit Hourly	3,864,243						
Total	$6,862,453	79	$86,866.49	77	$6,677,167	($185,286)	97.3%
Payroll Tax Effect (@7.65%)						($14,174)	
BASA WW Operations							
Non-Collective Bargaining Unit Salary	$471,557						
Collective Bargaining Unit	2,230,662						
Non-Collective Bargaining Unit Hourly	63,058						
Total	$2,765,276	29	$95,354.36	29	$2,754,215	($11,061)	99.6%
Payroll Tax Effect (@7.65%)						($846)	
Wastewater CSS Operations							
Non-Collective Bargaining Unit Salary	$1,112,821						
Collective Bargaining Unit	7,611,368						
Non-Collective Bargaining Unit Hourly	108,323						
Total	$8,832,512	99	$89,443.16	98	$8,797,182	($35,330)	99.6%
Payroll Tax Effect (@7.65%)						($2,703)	

Notes
[1/] I&E RE-018-D_Attachment 1

Pennsylvania-American Water Company
Wastewater SSS Operations
Adjustment to Annual Performance Pay
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount [1/]	Earnings-Related Percentage [2/]	Adjustment to Annual Performance Pay
		(a)	(b)	(c)
1	**Water Operations**			
2	Non-Collective Bargaining Unit Salary	$6,213,845		
3	Collective Bargaining Unit	1,706,222		
4	Non-Collective Bargaining Unit Hourly	1,188,694		
5	Total	$9,108,761	50%	($4,554,381)
6	Payroll Tax Effect (@7.65%)			($349,093)
7	**Wastewater SSS General Operations**			
8	Non-Collective Bargaining Unit Salary	$195,340		
9	Collective Bargaining Unit	52,940		
10	Non-Collective Bargaining Unit Hourly	261,680		
11	Total	$509,960	50%	($254,980)
12	Payroll Tax Effect (@7.65%)			($19,544)
13	**BASA WW Operations**			
14	Non-Collective Bargaining Unit Salary	$61,553		
15	Collective Bargaining Unit	84,046		
16	Non-Collective Bargaining Unit Hourly	4,414		
17	Total	$150,013	50%	($75,007)
18	Payroll Tax Effect (@7.65%)			($5,749)
19	**Wastewater CSS Operations**			
20	Non-Collective Bargaining Unit Salary	$141,082		
21	Collective Bargaining Unit	253,139		
22	Non-Collective Bargaining Unit Hourly	12,994		
23	Total	$407,215	50%	($203,608)
	Payroll Tax Effect (@7.65%)			($15,607)

Notes
[1/] EXHIBIT NO. 3-B, Page 62.
[2/] FR III.22

Pennsylvania-American Water Company
Wastewater SSS Operations
Adjustment to Group Insurance Expense
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount
	Water Operations	
1	PAWC Pro forma Adjustment to Group Inusrance Expense	$ 441,433 [1/]
2		
3	Adjustment to Insurance Escalation	$(441,433)
4		
5	Waterwater SS Operations	
6	PAWC Pro forma Adjustment to Group Inusrance Expense	$ 47,250 [2/]
7		
8	Adjustment to Insurance Escalation	$ (47,250)
9		
10	BASA WW Operations	
11	PAWC Pro forma Adjustment to Group Inusrance Expense	$ 17,996 [3/]
12		
13	Adjustment to Remove Insurance Escalation	$ (17,996)
14		
15	Wastewater CSS Operations Operations	
16	PAWC Pro forma Adjustment to Group Inusrance Expense	$ 56,590 [4/]
17		
18	Adjustment to Remove Insurance Escalation	$ (56,590)

Notes:
[1/] PAWC Exhibit No. 3A, Page 49.
[2/] PAWC Exhibit No. 3A, Page 111.
[3/] PAWC Exhibit No. 3A, Page 159.
[4/] PAWC Exhibit No. 3A, Page 208.

Docket No. R-2025-3057983 (Water)
& R-2025-3058051 (Wastewater)
Exhibit LKM -7WSS

Pennsylvania-American Water Company
Wastewater SSS Operations
Adjustment toTransportation Expense
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount
1	**Water Operations**	
2	OCA FPFTY Transportation Expenses	$2,917,533
3	PAWC FPFTY Transportation Expenses	3,321,224
4	Adjustment to Transportation Expenses	(403,691)
5		
6		
7	**Wastewater SSS General Operations**	
8	OCA FPFTY Transportation Expenses	$148,752
9	PAWC FPFTY Transportation Expenses	168,807
10	Adjustment to Transportation Expenses	(20,055)
11		
12		
13	**BASA WW Operations**	
14	OCA FPFTY Transportation Expenses	$54,333
15	PAWC FPFTY Transportation Expenses	61,692
16	Adjustment to Transportation Expenses	(7,359)
17		
18		
19	**Wastewater CSS Operations**	
20	OCA FPFTY Transportation Expenses	$389,061
21	PAWC FPFTY Transportation Expenses	442,804
22	Adjustment to Transportation Expenses	12,994

Pennsylvania-American Water Company
Wastewater SSS Operations
Adjustment to Acquisition and Transaction Costs
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Rate Base Amount	Annual Amortization
1	Water Acquisition Adjustments		
2	Farmington Township (Water)	$ 123,028	$ 13,544
3	Audubon Water	2,942,792	323,977
4	Manwalamink Water	1,051,330	115,743
5		$ 4,117,150	$ 453,264
6	Sewer Acquisition Adjustments		
7	Farmington Township (Water)	$ 961,320	$ 105,833
8			
9	Transaction Costs		
10	Manwalamink Water Transactions Costs - Initial Nextera Bid		$ 1,374
11	Towamencin Township		66,014
			$ 67,388

Pennsylvania-American Water Company
Wastewater SSS Operations
Interest Synchronization Adjustment
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount	
1	Company Rate Base	$ 660,231,579	1/
2	Weighted Cost of Debt	1.96%	2/
3	Adjusted Interest Deduction	$ 12,940,539	
4	Interest Deduction Per Company	12,959,381	3/
5	Adjustment to Synchronize Interest Expense	$ (18,842)	
6	Effective State Income Tax Rate	6.99%	
7	Adjustment to State Income Taxes	$ 1,317	
8	Federal Income Tax Base	$ (17,525)	
9	Federal Income Tax Rate	21.00%	
10	Adjustment to Federal Income Taxes	$ 3,680	

Notes:

1/ Exhibit LKM-2, Page 1.

2/ See Exhibit LKM-

3/ PAWC Exhibit No.3-A, Page 134.

Docket No. R-2025-3057983 (Water)
& R-2025-3058051 (Wastewater)
Exhibit LKM -10WSS

Pennsylvania-American Water Company
Wastewater SSS Operations
Calculation of Rate of Return
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Capitalization Ratio	Cost Rate	Weighted Cost
1	Long Term Debt	41.60%	4.71%	1.96%
2	Long Term Debt - WW Specific	6.88%	2.20%	0.15%
3	Total Debt	48.48%		
4	Prefered Stock	0.00%	9.71%	0.00%
5	Common Equity	51.52%	8.70%	4.48%
6	Total	100.00%		6.59%

Source:
Per OCA witness Garrett.

Pennsylvania-American Water Company
BASA Wastewater Operations
Cost of Service
For the Future Test Year Ended June 30, 2027

Line No.	Description	Company Amounts at Present Rates [1/]	OCA Adjustments	Amounts After OCA Adjustments	Pro Forma Change in Revenues	Amounts After Change in Revenues
1	Total Operating Revenues	$ 12,748,475	$ -	$ 12,748,475	$ 20,706,700	$ 33,455,175
2						
3	Operating Expenses					
4	Operation and Maintenance	7,536,236		7,536,236	388,087	7,924,323
5	Depreciation	11,360,328	(3,867,209)	7,493,119		7,493,119
6	Amortizations	129,105	(3,867,209)	(3,738,104)	-	(3,738,104)
7	Total Operating Expenses	$ 19,025,669	$ (7,734,418)	$ 11,291,251	$ 388,087	$ 11,679,338
8						
9						
10	Operating Income Before Income Taxes	$ (6,277,194)	$ 7,734,418	$ 1,457,224	$ 20,318,613	$ 21,775,837
11						
12	Taxes & Assessments					
13	Taxes Other Than Income	$ 687,313		$ 687,313	$ 259,278	$ 946,591
14	Federal Income Tax	(357,233)		(357,233)	3,970,617	3,613,384
15	State Income Tax	(116,049)		(116,049)	1,420,974	1,304,925
16	Deferred Income Taxes			-	-	-
17	Net Income	$ (6,491,225)	$ 7,734,418	$ 1,243,193	$ 14,667,744	$ 15,910,937
###	Rate Base	$ 245,527,676		$ 245,527,676		$ 245,527,676
###						
###	Rate of Return	-2.64%		0.51%		6.48%
###						

Source: Company Exhibit 3-A, BASA WW Operations, Page 135.

Pennsylvania-American Water Company
BASA Wastewater Operations
Summary of Revenue Increase at OCA Rate of Return
For the Twelve Months Ended June 30, 2027

Line No.	Description		Amount	Source
1	Adjusted Rate Base		$ 245,527,676	1/
2	Required Rate of Return		6.59%	2/
3				
4	Net Operating Income Required		16,180,274	
5	Net Operating Income at Present Rates		1,243,193	3/
6				
7	Income Deficiency/(Surplus)		14,937,081	
8	Revenue Multiplier		1.386261	
9				
10	Required Change in Company Revenue		$ 20,706,700	
11				
12	Proposed Revenue Change		$ 20,706,700	
#REF!	Less: Uncollectibles	1.097% 5/	$ 227,152	
#REF!	Net of Uncollectibles		$ 20,479,548	
#REF!	Less: Regulatory Fees	0.7367% 6/	$ 150,876	
#REF!	Net of Regulatory Fees		$ 20,328,672	
#REF!	Less: State Income Tax @ 6.99%	6.99% 7/	$ 1,420,974	
#REF!	Income Before Federal Taxes		$ 18,907,698	
#REF!	Federal Income Tax @ 21.0%	21.00% 7/	3,970,617	
#REF!				
#REF!				
#REF!	Net Income (Surplus)/Deficiency		$ 14,937,081	

Note:
1/ Exhibit LKM-2, Page 1.
2/ Exhibit LKM-5.
3/ Exhibit LKM-1, Page 1.
4/ Company filing Volume 3, Water Operations, page 68.
5/ Company filing Volume 3, Water Operations, page 124.
6/ Company filing Volume 3, Water Operations, page 70.
7/ Company filing Volume 3, Water Operations, page 72.

Pennsylvania-American Water Company
BASA Wastewater Operations
Summary of Rate Base
For the Future Test Year Ended June 30, 2027

Line No.	Description	Amount per Company Filing	OCA Adjustments	Amount After OCA Adjustments
1	Utility Plant			
2	Non-Depreciable Plant	$ 13,283,700		$ 13,283,700
3	Depreciable Plant	258,932,616		258,932,616
4	Total Utility Plant	$ 272,216,316	$ -	$ 272,216,316
5				
6	Utility Plant Deductions			
7	Contributions in Aid of Construction	-		-
8	Customer Advances for Construction	-		-
9	Excluded Property	-		-
10	Total Utility Plant Deductions	$ -	$ -	$ -
11				
12	Net Plant	$ 272,216,316	-	$ 272,216,316
13				
	Accumulated Depreciation	24,339,419.00		24,339,419
	Depreciated Utility Plant in Service	$ 247,876,897	$ -	$ 247,876,897
14	Additions to Net Plant			
15	Materials and Supplies	105,315		105,315
16	Cash Working Capital - Expenses	1,061,398		1,061,398
17	Accrued and Prepaid Taxes	340,500		340,500
18	Acquistion and Adjustmnets	1,172,699		1,172,699
19	Other Additions	-		-
20	Total Additions	$ 2,679,912	$ -	$ 2,679,912
21				
22	Deductions to Net Plant			
23	Cash Working Capital - Int and Div	662,104		662,104
24	Unamortized ITC (3%)	-		-
25	Extension Deposits in Suspense	-		-
26	Citizens Acquisition of CIAC & CAC, per Settlement	-		-
27	TJAC - Stub Period	-		-
28	Other Deductions	-		-
29	Deferred Taxes	4,367,029	-	4,367,029
30	Total Deductions	$ 5,029,133	$ -	$ 5,029,133
31				
32	Rate Base	$ 245,527,676	$ -	$ 245,527,676

Source: Company Exhibit 3-A, BASA WW Operations, Page 145.

Pennsylvania-Amercian Water Company
BASA Wastewater Operations
Summary of Rate Base Adjustments
For the Future Test Year Ended June 30, 2027

Line No.	Description	Source	Amount
1	Rate Base per Company Filing		$ 245,527,676
2			
3	OCA Adjustments:		
4			
5			
6			
7			
8	Total Ratemaking Adjustments		$ -
9			
10	Adjusted Rate Base per OCA		$ 245,527,676

Pennsylvania-American Water Company
BASA Wastewater Operations
Summary of Adjustments to Operating Income
For the Future Test Year Ended June 30, 2027

Line No.	Description	Operating Revenues	Operation and Maintenance	Depreciation	Amortizations	Taxes Other Than Income	State Income Tax	Federal Income Tax	Operating Income
1	Amount per Company	$ 12,748,475	$ 7,536,236	$ 11,360,328	$ 129,105	$ 687,313	$ (116,049)	$ (357,233)	$ (6,491,225)
2									
3	OCA Adjustments:								
4	Salaries and Wages	-	($11,061)	-	-	($846)	832	2,326	$ 8,749
5	Annual Performance Pay	-	($75,007)	-	-	($5,749)	5,645	15,773	59,338
6	Group Insurance	-	(17,996)	-	-	-	1,258	3,515	13,223
7	Transportation Expense	-	(7,359)	-	-	-	514	1,437	5,407
8	Change in Depreciation Rates	-	-	(3,867,209)	-	-	-	-	3,867,209
9		-	-	-	-	-	-	-	-
10	Interest Synchronization	-	-	-	-	-	-	-	-
11									
12	Total OCA Adjustments	$ -	($111,423)	$ (3,867,209)	$ -	$ (6,595)	$ 8,249	$ 23,051	$ 3,953,926
13									
14	Total Adjusted Income Before Income	$ 12,748,475	$ 7,424,813	$ 7,493,119	$ 129,105	$ 680,718	$ (107,800)	$ (334,182)	$ (2,537,299)

Pennsylvania-American Water Company
BASA WW Operations
Adjustment to Salaries and Wages Expense
For the Fully Projected Future Test Year Ending June 30, 2027

	2027	Budgeted Number of Employees [1/]	Average Salary And Wages per Employee	Number of Employees Adjusted for Vacancy	Adjusted FPFTY Salaries & Wages	Adjustment to Salaries & Wages	Budgeted Positions Filled Rate
	(a)	(b)	(c)=a/b	(d)=b X f	(e)=c X d	(f)=e-a	(f)
Water Operations							
Non-Collective Bargaining Unit Salary	$34,519,930						
Collective Bargaining Unit	52,644,229						
Non-Collective Bargaining Unit Hourly	18,426,280						
Total	$105,590,439	1,068	$98,867.45	1,049	$103,689,811	($1,900,628)	98.2%
Payroll Tax Effect (@7.65%)						($145,398)	
Wastewater SSS General Operations							
Non-Collective Bargaining Unit Salary	$1,494,355						
Collective Bargaining Unit	1,503,855						
Non-Collective Bargaining Unit Hourly	3,864,243						
Total	$6,862,453	79	$86,866.49	77	$6,677,167	($185,286)	97.3%
Payroll Tax Effect (@7.65%)						($14,174)	
BASA WW Operations							
Non-Collective Bargaining Unit Salary	$471,557						
Collective Bargaining Unit	2,230,662						
Non-Collective Bargaining Unit Hourly	63,058						
Total	$2,765,276	29	$95,354.36	29	$2,754,215	($11,061)	99.6%
Payroll Tax Effect (@7.65%)						($846)	
Wastewater CSS Operations							
Non-Collective Bargaining Unit Salary	$1,112,821						
Collective Bargaining Unit	7,611,368						
Non-Collective Bargaining Unit Hourly	108,323						
Total	$8,832,512	99	$89,443.16	98	$8,797,182	($35,330)	99.6%
Payroll Tax Effect (@7.65%)						($2,703)	

Notes
[1/] I&E RE-018-D_Attachment 1

Pennsylvania-American Water Company
BASA WW Operations
Adjustment to Annual Performance Pay
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount [1/]	Earnings-Related Percentage [2/]	Adjustment to Annual Performance Pay
		(a)	(b)	(c)
1	**Water Operations**			
2	Non-Collective Bargaining Unit Salary	$6,213,845		
3	Collective Bargaining Unit	1,706,222		
4	Non-Collective Bargaining Unit Hourly	1,188,694		
5	Total	$9,108,761	50%	($4,554,381)
6	Payroll Tax Effect (@7.65%)			($349,093)
7	**Wastewater SSS General Operations**			
8	Non-Collective Bargaining Unit Salary	$195,340		
9	Collective Bargaining Unit	52,940		
10	Non-Collective Bargaining Unit Hourly	261,680		
11	Total	$509,960	50%	($254,980)
12	Payroll Tax Effect (@7.65%)			($19,544)
13	**BASA WW Operations**			
14	Non-Collective Bargaining Unit Salary	$61,553		
15	Collective Bargaining Unit	84,046		
16	Non-Collective Bargaining Unit Hourly	4,414		
17	Total	$150,013	50%	($75,007)
18	Payroll Tax Effect (@7.65%)			($5,749)
19	**Wastewater CSS Operations**			
20	Non-Collective Bargaining Unit Salary	$141,082		
21	Collective Bargaining Unit	253,139		
22	Non-Collective Bargaining Unit Hourly	12,994		
23	Total	$407,215	50%	($203,608)
	Payroll Tax Effect (@7.65%)			($15,607)

Notes
[1/] EXHIBIT NO. 3-B, Page 62.
[2/] FR III.22

Docket No. R-2025-3057983 (Water)
& R-2025-3058051 (Wastewater)
Exhibit LKM -6BASA

Pennsylvania-American Water Company
BASA WW Operations
Adjustment to Group Insurance Expense
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount
1	PAWC Proforma Adjustment to Group Inusrance Expense	$ 17,996 1/
2		
3	Adjustment to Remove Insurance Escalation	$ (17,996)

Notes:
1/ PAWC Exhibit No. 3A, Page 111.

Docket No. R-2025-3057983 (Water)
& R-2025-3058051 (Wastewater)
Exhibit LKM -7BASA

Pennsylvania-American Water Company
BASA Wastewater Operations
Adjustment toTransportation Expense
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount
1	**Water Operations**	
2	OCA FPFTY Transportation Expenses	$2,917,533
3	PAWC FPFTY Transportation Expenses	3,321,224
4	Adjustment to Transportation Expenses	(403,691)
5		
6		
7	**Wastewater SSS General Operations**	
8	OCA FPFTY Transportation Expenses	$148,752
9	PAWC FPFTY Transportation Expenses	168,807
10	Adjustment to Transportation Expenses	(20,055)
11		
12		
13	**BASA WW Operations**	
14	OCA FPFTY Transportation Expenses	$54,333
15	PAWC FPFTY Transportation Expenses	61,692
16	Adjustment to Transportation Expenses	(7,359)
17		
18		
19	**Wastewater CSS Operations**	
20	OCA FPFTY Transportation Expenses	$389,061
21	PAWC FPFTY Transportation Expenses	442,804
22	Adjustment to Transportation Expenses	(53,743)

Pennsylvania-American Water Company
BASA Wastewater Operations
Interest Synchronization Adjustment
For the Future Test Year Ended June 30, 2027

Line No.	Description	Amount	
1	Company Rate Base	$ 245,527,676	1/
2	Weighted Cost of Debt	1.96%	
3	Adjusted Interest Deduction	$ 4,812,342	2/
4	Interest Deduction Per Company	4,812,342	2/
5	Adjustment to Synchronize Interest Expense	$ -	
6	Effective State Income Tax Rate	6.99%	
7	Adjustment to State Income Taxes	$ -	
8	Federal Income Tax Base	$ -	
9	Federal Income Tax Rate	21.00%	
10	Adjustment to Federal Income Taxes	$ -	

Notes:
1/ Exhibit LKM-2, Page 1.
2/ PAWC Exhibit No 3-a, page 179

Pennsylvania-American Water Company
BASA Operations
Calculation of Rate of Return
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Capitalization Ratio	Cost Rate	Weighted Cost
1	Long Term Debt	41.60%	4.71%	1.96%
2	Long Term Debt - WW Specific	6.88%	2.20%	0.15%
3	Total Debt	48.48%		
4	Prefered Stock	0.00%	9.71%	0.00%
5	Common Equity	51.52%	8.70%	4.48%
6	Total	100.00%		6.59%

Source:
1/ OCA witness Garrett

Pennsylvania-American Water Company
Wastewater CSS Operations
Cost of Service
For the Future Test Year Ended June 30, 2027

Line No.	Description	Company Amounts at Present Rates [1/]	OCA Adjustments	Amounts After OCA Adjustments	Pro Forma Change in Revenues	Amounts After Change in Revenues
1	Total Operating Revenues	$ 85,758,589	$ -	$ 85,758,589	$ (3,085,512)	$ 82,673,077
2						
3	Operating Expenses					
4	Operation and Maintenance	19,952,953	(699,219)	19,253,734	114,136	19,367,870
5	Depreciation	21,547,795	(2,983,191)	18,564,604	-	18,564,604
6	Amortizations	130,661	-	130,661	-	130,661
7	Total Operating Expenses	$ 41,631,409	$ (3,682,410)	$ 37,948,999	$ 114,136	$ 38,063,135
8						
9						
10	Operating Income Before Income Taxes	$ 44,127,180	$ 3,682,410	$ 47,809,590	$ (3,199,648)	$ 44,609,942
11						
12	Taxes & Assessments					
13	Taxes Other Than Income	$ 2,260,278	$ (18,309)	$ 2,241,969	$ 76,254	$ 2,318,223
14	Federal Income Tax	6,523,450		6,523,450	(591,663)	5,931,787
15	State Income Tax	2,526,024		2,526,024	(211,740)	2,314,284
16	Deferred Income Taxes			-	-	-
17						
18	Net Income	$ 32,817,428	$ 3,700,719	$ 36,518,147	$ (2,472,499)	$ 34,045,648
19						
20	Rate Base	$ 520,293,107		$ 520,293,107		$ 520,293,107
21						
22	Rate of Return	6.31%		7.02%		6.54%
23						

Source: Company Exhibit 3-A, Wastewater CSS General Operations, Page 180.

Pennsylvania-American Water Company
Wastewater CSS Operations
Summary of Revenue Increase at OCA Rate of Return
For the Twelve Months Ended June 30, 2027

Line No.	Description		Amount	Source
1	Adjusted Rate Base		$ 520,293,107	1/
2	Required Rate of Return		6.59%	2/
3				
4	Net Operating Income Required		34,292,368	
5	Net Operating Income at Present Rates		36,518,147	3/
6				
7	Income Deficiency/(Surplus)		(2,225,779)	
8	Revenue Multiplier		1.386261	
9				
10	Required Change in Company Revenue		$ (3,085,512)	
11				
12	Proposed Revenue Change		$ (3,085,512)	
13	Less: Uncollectibles	1.097% 5/	$ (33,848)	
14	Net of Uncollectibles		$ (3,051,664)	
15	Less: Regulatory Fees	0.7367% 6/	$ (22,482)	
16	Net of Regulatory Fees		$ (3,029,182)	
17	Less: State Income Tax @ 6.99%	6.99% 7/	$ (211,740)	
18				
19	Income Before Federal Taxes		$ (2,817,442)	
20	Federal Income Tax @ 21.0%	21.00% 7/	(591,663)	
21	Net Income (Surplus)/Deficiency		$ (2,225,779)	

Note:
1/ Exhibit LKM-2, Page 1.
2/ Exhibit LKM-5.
3/ Exhibit LKM-1, Page 1.
4/ Company filing Volume 3, Water Operations, page 68.
5/ Company filing Volume 3, Water Operations, page 124.
6/ Company filing Volume 3, Water Operations, page 70.
7/ Company filing Volume 3, Water Operations, page 72.

Pennsylvania-American Water Company
Wastewater CSS Operations
Summary of Rate Base
For the Future Test Year Ended June 30, 2027

Line No.	Description	Amount per Company Filing	OCA Adjustments	Amount After OCA Adjustments
1	Utility Plant			
2	Non-Depreciable Plant	$ 5,076,748		$ 5,076,748
3	Depreciable Plant	932,268,962		932,268,962
4	Total Utility Plant	$ 937,345,710	$ -	$ 937,345,710
5				
6	Utility Plant Deductions			
7	Contributions in Aid of Construction	12,319,932		12,319,932
8	Customer Advances for Construction	-		-
9	Excluded Property	-		-
10	Total Utility Plant Deductions	$ 12,319,932	$ -	$ 12,319,932
11				
12	Net Plant	$ 925,025,778	-	$ 925,025,778
13				
	Accumulated Depreciation	338,491,050.00		338,491,050
	Depreciated Utility Plant in Service	$ 586,534,728	$ -	$ 586,534,728
14	Additions to Net Plant			
15	Materials and Supplies	426,365		426,365
16	Cash Working Capital - Expenses	1,503,544		1,503,544
17	Accrued and Prepaid Taxes	726,030		726,030
18	Acquistion and Adjustmnets	3,395,192		3,395,192
19	Other Additions	-		-
20	Total Additions	$ 6,051,131	$ -	$ 6,051,131
21				
22	Deductions to Net Plant			
23	Cash Working Capital - Int and Div	1,403,092		1,403,092
24	Unamortized ITC (3%)	-		-
25	Extension Deposits in Suspense	-		-
26	Citizens Acquisition of CIAC & CAC, per Settlement	-		-
27	TJAC - Stub Period	-		-
28	Other Deductions	-		-
29	Deferred Taxes	70,889,660	-	70,889,660
30	Total Deductions	$ 72,292,752	$ -	$ 72,292,752
31				
32	Rate Base	$ 520,293,107	$ -	$ 520,293,107

Source: Company Exhibit 3-A, Wastewater CSS Operations, Page 192.

Pennsylvania-American Water Company
Wastewater CSS Operations
Summary of Rate Base Adjustments
For the Future Test Year Ended June 30, 2027

Line No.	Description	Source	Amount
1	Rate Base per Company Filing		$ 520,293,107
2			
3	OCA Adjustments:		
4			
5			
6			
7			
8			
9			
10			
11	Total Ratemaking Adjustments		$ -
12			
13	Adjusted Rate Base per OCA		$ 520,293,107

Pennsylvania-American Water Company
Wastewater CSS Operations
Summary of Adjustments to Operating Income
For the Future Test Year Ended June 30, 2027

Line No.	Description	Operating Revenues	Operation and Maintenance	Depreciation	Amortizations	Taxes Other Than Income	State Income Tax	Federal Income Tax	Operating Income
1	Amount per Company	$ 85,758,589	$ 19,952,953	$ 21,547,795	$ 130,661	$ 2,260,278	$ 2,526,024	$ 6,523,450	$ 32,817,428
2									
3	OCA Adjustments:								
4	Salaries and Wages		(35,330)			(2,703)	2,658	7,429	27,946
5	Annual Performance Pay		(203,608)			(15,607)	15,323	42,817	161,074
6	Group Insurance		(56,590)				3,956	11,053	41,581
7	Transportation Expense		(403,691)				28,218	78,849	296,624
8	Change in Depreciation Rates			(2,983,191)			208,525	582,680	2,191,986
9	Interest Synchronization	-	-	-	-	-	-	-	-
10									
11	Total OCA Adjustments	$ -	$ (699,219)	$ (2,983,191)	$ -	$ (18,309)	$ 258,680	$ 722,828	$ 2,719,210
12									
13	Total Adjusted Income	$ 85,758,589	$ 19,253,734	$ 18,564,604	$ 130,661	$ 2,241,969	$ 2,784,704	$ 7,246,278	$ 35,536,638

Pennsylvania-American Water Company
Wastewater CSS Operations
Adjustment to Salaries and Wages Expense
For the Fully Projected Future Test Year Ending June 30, 2027

	2027	Budgeted Number of Employees [1/]	Average Salary And Wages per Employee	Number of Employees Adjusted for Vacancy	Adjusted FPFTY Salaries & Wages	Adjustment to Salaries & Wages	Budgeted Positions Filled Rate
	(a)	(b)	(c)=a/b	(d)=b X f	(e)=c X d	(f)=e-a	(f)
Water Operations							
Non-Collective Bargaining Unit Salary	$34,519,930						
Collective Bargaining Unit	52,644,229						
Non-Collective Bargaining Unit Hourly	18,426,280						
Total	$105,590,439	1,068	$98,867.45	1,049	$103,689,811	($1,900,628)	98.2%
Payroll Tax Effect (@7.65%)						($145,398)	
Wastewater SSS General Operations							
Non-Collective Bargaining Unit Salary	$1,494,355						
Collective Bargaining Unit	1,503,855						
Non-Collective Bargaining Unit Hourly	3,864,243						
Total	$6,862,453	79	$86,866.49	77	$6,677,167	($185,286)	97.3%
Payroll Tax Effect (@7.65%)						($14,174)	
BASA WW Operations							
Non-Collective Bargaining Unit Salary	$471,557						
Collective Bargaining Unit	2,230,662						
Non-Collective Bargaining Unit Hourly	63,058						
Total	$2,765,276	29	$95,354.36	29	$2,754,215	($11,061)	99.6%
Payroll Tax Effect (@7.65%)						($846)	
Wastewater CSS Operations							
Non-Collective Bargaining Unit Salary	$1,112,821						
Collective Bargaining Unit	7,611,368						
Non-Collective Bargaining Unit Hourly	108,323						
Total	$8,832,512	99	$89,443.16	98	$8,797,182	($35,330)	99.6%
Payroll Tax Effect (@7.65%)						($2,703)	

Notes
[1/] I&E RE-018-D_Attachment 1

Pennsylvania-American Water Company
Wastewater CSS Operations
Adjustment to Annual Performance Pay
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount [1/]	Earnings-Related Percentage [2/]	Adjustment to Annual Performance Pay
		(a)	(b)	(c)
1	**Water Operations**			
2	Non-Collective Bargaining Unit Salary	$6,213,845		
3	Collective Bargaining Unit	1,706,222		
4	Non-Collective Bargaining Unit Hourly	1,188,694		
5	Total	$9,108,761	50%	($4,554,381)
6	Payroll Tax Effect (@7.65%)			($349,093)
7	**Wastewater SSS General Operations**			
8	Non-Collective Bargaining Unit Salary	$195,340		
9	Collective Bargaining Unit	52,940		
10	Non-Collective Bargaining Unit Hourly	261,680		
11	Total	$509,960	50%	($254,980)
12	Payroll Tax Effect (@7.65%)			($19,544)
13	**BASA WW Operations**			
14	Non-Collective Bargaining Unit Salary	$61,553		
15	Collective Bargaining Unit	84,046		
16	Non-Collective Bargaining Unit Hourly	4,414		
17	Total	$150,013	50%	($75,007)
18	Payroll Tax Effect (@7.65%)			($5,749)
19	**Wastewater CSS Operations**			
20	Non-Collective Bargaining Unit Salary	$141,082		
21	Collective Bargaining Unit	253,139		
22	Non-Collective Bargaining Unit Hourly	12,994		
23	Total	$407,215	50%	($203,608)
	Payroll Tax Effect (@7.65%)			($15,607)

Notes
[1/] EXHIBIT NO. 3-B, Page 62.
[2/] FR III.22

Pennsylvania-American Water Company
Wastewater CSS Operations
Adjustment to Group Insurance Expense
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount
1	PAWC Proforma Adjustment to Group Inusrance Expense	$ 56,590 1/
2		
3	Adjustment to Remove Insurance Escalation	$ (56,590)

Notes:
1/ PAWC Exhibit No. 3A, Page 208.

Docket No. R-2025-3057983 (Water)
& R-2025-3058051 (Wastewater)
Exhibit LKM -7CSS

Pennsylvania-American Water Company
Wastewater CSS Operations
Adjustment toTransportation Expense
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount
1	**Water Operations**	
2	OCA FPFTY Transportation Expenses	$2,917,533
3	PAWC FPFTY Transportation Expenses	3,321,224
4	Adjustment to Transportation Expenses	(403,691)
5		
6		
7	**Wastewater SSS General Operations**	
8	OCA FPFTY Transportation Expenses	$148,752
9	PAWC FPFTY Transportation Expenses	168,807
10	Adjustment to Transportation Expenses	(20,055)
11		
12		
13	**BASA WW Operations**	
14	OCA FPFTY Transportation Expenses	$54,333
15	PAWC FPFTY Transportation Expenses	61,692
16	Adjustment to Transportation Expenses	(7,359)
17		
18		
19	**Wastewater CSS Operations**	
20	OCA FPFTY Transportation Expenses	$389,061
21	PAWC FPFTY Transportation Expenses	442,804
22	Adjustment to Transportation Expenses	12,994

Pennsylvania-American Water Company
Wastewater CSS Operations
Interest Synchronization Adjustment
For the Future Test Year Ended June 30, 2027

Line No.	Description	Amount	
1	Company Rate Base	$ 520,293,107	1/
2	Weighted Cost of Debt	1.96%	2/
3	Adjusted Interest Deduction	$ 10,197,745	
4	Interest Deduction Per Company	10,197,745	2/
5	Adjustment to Synchronize Interest Expense	$ -	
6	Effective State Income Tax Rate	6.99%	
7	Adjustment to State Income Taxes	$ -	
8	Federal Income Tax Base	$ -	
9	Federal Income Tax Rate	21.00%	
10	Adjustment to Federal Income Taxes	$ -	

Notes:
1/ Exhibit LKM-2, Page 1.

Docket No. R-2025-3057983 (Water)
& R-2025-3058051 (Wastewater)
Exhibit LKM -9CSS

Water Operations
BASA Operations
Calculation of Rate of Return

Line No.	Description	Capitalization Ratio	Cost Rate	Weighted Cost
1	Long Term Debt	41.59%	4.71%	1.96%
2	Long Term Debt - WW Specific	6.88%	2.20%	0.15%
3	Total Debt	48.47%		
4	Prefered Stock	0.01%	9.71%	0.00%
5	Common Equity	51.52%	8.70%	4.48%
6	Total	100.00%		6.59%

Source:
OCA witness Garrett.

Pennsylvania-American Water Company
Elizabeth Borough WW CSS Operations
Cost of Service
For the Future Test Year Ended June 30, 2027

Line No.	Description	Company Amounts at Present Rates [1/]	OCA Adjustments	Amounts After OCA Adjustments	Pro Forma Change in Revenues	Amounts After Change in Revenues
1	Total Operating Revenues	$ 1,767,267	$ -	$ 1,767,267	$ 2,733,221	$ 4,500,488
2						
3	Operating Expenses					
4	Operation and Maintenance	867,000		867,000	29,983	896,983
5	Depreciation	1,035,785	(292,710)	743,075	-	743,075
6	Amortizations	54,552	-	54,552	-	54,552
7	Total Operating Expenses	$ 1,957,337	$ (292,710)	$ 1,664,627	$ 29,983	$ 1,694,610
8						
9						
10	Operating Income Before Income Taxes	$ (190,070)	$ 292,710	$ 102,640	$ 2,703,238	$ 2,805,878
11						
12	Taxes & Assessments					
13	Taxes Other Than Income	$ 29,882	$ -	$ 29,882	$ 19,915	$ 49,797
14	Federal Income Tax	73,075	57,172	130,247	524,109	654,356
15	State Income Tax	25,137	20,460	45,597	187,564	233,161
16	Deferred Income Taxes			-	-	-
###						
###	Net Income	$ (318,164)	$ 215,077	$ (103,087)	$ 1,971,650	$ 1,868,563
###						
###	Rate Base	$ 28,350,331		$ 28,350,331		$ 28,350,331
###						
###	Rate of Return	-1.12%		-0.36%		6.59%
###						

Source: Company Exhibit 3-A, Elizabeth WW CSS Operations, Page 231.

Pennsylvania-American Water Company
Elizabeth Borough WW CSS Operations
Summary of Revenue Increase at OCA Rate of Return
For the Twelve Months Ended June 30, 2027

Line No.	Description		Amount	Source
1	Adjusted Rate Base		$ 28,350,331	1/
2	Required Rate of Return		6.59%	2/
3				
4	Net Operating Income Required		1,868,562	
5	Net Operating Income at Present Rates		(103,087)	3/
6				
7	Income Deficiency/(Surplus)		1,971,649	
8	Revenue Multiplier		1.386261	
9				
10	Required Change in Company Revenue		$ 2,733,221	
11				
12	Proposed Revenue Change		$ 2,733,221	
#REF!	Less: Uncollectibles	1.097% 5/	$ 29,983	
#REF!	Net of Uncollectibles		$ 2,703,238	
#REF!	Less: Regulatory Fees	0.7367% 6/	$ 19,915	
#REF!	Net of Regulatory Fees		$ 2,683,323	
#REF!	Less: State Income Tax @ 6.99%	6.99% 7/	$ 187,564	
#REF!				
#REF!	Income Before Federal Taxes		$ 2,495,759	
#REF!	Federal Income Tax @ 21.0%	21.00% 7/	524,109	
#REF!				
#REF!				
#REF!	Net Income (Surplus)/Deficiency		$ 1,971,650	

Pennsylvania-American Water Company
Elizabeth Borough WW CSS Operations
Summary of Rate Base
For the Future Test Year Ended June 30, 2027

Line No.	Description	Amount per Company Filing	OCA Adjustments	Amount After OCA Adjustments
1	Utility Plant			
2	Non-Depreciable Plant	$ 633,483		$ 633,483
3	Depreciable Plant	28,013,222		28,013,222
4	Total Utility Plant	$ 28,646,705	$ -	$ 28,646,705
5				
6	Utility Plant Deductions			
7	Contributions in Aid of Construction	-		-
8	Customer Advances for Construction	-		-
9	Excluded Property	-		-
10	Total Utility Plant Deductions	$ -	$ -	$ -
11				
12	Net Plant	$ 28,646,705	-	$ 28,646,705
13				
	Accumulated Depreciation	1,172,492.00		1,172,492
	Depreciated Utility Plant in Service	$ 27,474,213	$ -	$ 27,474,213
14	Additions to Net Plant			
15	Materials and Supplies	6,650		6,650
16	Cash Working Capital - Expenses	51,881		51,881
17	Accrued and Prepaid Taxes	22,903		22,903
18	Acquistion and Adjustmnets	495,510		495,510
19	Other Additions	-		-
20	Total Additions	$ 576,944	$ -	$ 576,944
21				
22	Deductions to Net Plant			
23	Cash Working Capital - Int and Div	76,459		76,459
24	Unamortized ITC (3%)	-		-
25	Extension Deposits in Suspense	-		-
26	Citizens Acquisition of CIAC & CAC, per Settlement	-		-
27	TJAC - Stub Period	-		-
28	Other Deductions	-		-
29	Deferred Taxes	(375,633)	-	(375,633)
30	Total Deductions	$ (299,174)	$ -	$ (299,174)
31				
32	Rate Base	$ 28,350,331	$ -	$ 28,350,331

Source: Company Exhibit 3-A, Elizabeth WW CSS Operations, Page 237.

Pennsylvania-American Water Company
Elizabeth Borough WW CSS Operations
Summary of Rate Base Adjustments
For the Future Test Year Ended June 30, 2027

Line No.	Description	Source	Amount
1	Rate Base per Company Filing		$ 28,350,331
2			
3	OCA Adjustments:		
4			
5			
6			
7			
8			
9			
10			
11	Total Ratemaking Adjustments		$ -
12			
13	Adjusted Rate Base per OCA		$ 28,350,331

Pennsylvania-American Water Company
Elizabeth Borough WW CSS Operations
Summary of Adjustments to Operating Income
For the Future Test Year Ended June 30, 2027

Line No.	Description	Operating Revenues	Operation and Maintenance	Depreciation	Amortizations	Taxes Other Than Income	State Income Tax	Federal Income Tax	Operating Income
1	Amount per Company	$ 1,767,267	$ 867,000	$ 1,035,785	$ 54,552	$ 29,882	$ 25,137	$ 73,075	$ (318,164)
2									
3	OCA Adjustments:								-
4									-
5	Change in Depreciation Rates			(292,710)			20,460	57,172	215,077
6									-
7	Interest Synchronization	-	-	-	-	-	-	-	-
8									
9	Total OCA Adjustments	$ -	$ -	$ (292,710)	$ -	$ -	$ 20,460	$ 57,172	$ 215,077
10									
11	Total Adjusted Income Before Income Taxes	$ 1,767,267	$ 867,000	$ 743,075	$ 54,552	$ 29,882	$ 45,597	$ 130,247	$ (103,087)

Pennsylvania-American Water Company
Elizabeth Borough WW CSS Operations
Interest Synchronization Adjustment
For the Future Test Year Ended June 30, 2027

Line No.	Description	Amount	
1	Company Rate Base	$ 28,350,331	1/
2	Weighted Cost of Debt	1.96%	2/
3	Adjusted Interest Deduction	$ 555,666	
4	Interest Deduction Per Company	555,666	2/
5	Adjustment to Synchronize Interest Expense	$ -	
6	Effective State Income Tax Rate	6.99%	
7	Adjustment to State Income Taxes	$ -	
8	Federal Income Tax Base	$ -	
9	Federal Income Tax Rate	21.00%	
10	Adjustment to Federal Income Taxes	$ -	

Notes:
1/ Exhibit LKM-2, Page 1.

itio

D

Pennsylvania-American Water Compan
BASA Operations
Calculation of Rate of Return
For the Fully Projected Future Test Year Ending Jun

Line No.	Description	Capitalization Ratio
1	Long Term Debt	41.59%
2	Long Term Debt - WW Specific	6.88%
3	Total Debt	48.47%
4	Prefered Stock	0.01%
5	Common Equity	51.52%
6	Total	100.00%

Source:
1/ Testimony of Ms. Buckley, Exhibit 13-A, Schedule 17.

ocket No. R-2025-3057983 (Water)
& R-2025-3058051 (Wastewater)
Exhibit LKM -5E

ıy

ıe 30, 2027

Cost Rate	Weighted Cost
4.71%	1.96%
2.20%	0.15%
9.71%	0.00%
8.70%	4.48%
	6.59%

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	:	
	:	
v.	:	Docket Nos. R-2025-3057983 (W)
	:	R-2025-3058051 (WW)
Pennsylvania-American Water Company	:	
	:	

VERIFICATION

I, Lafayette K. Morgan, hereby state that the facts above set forth in my Direct Testimony, OCA Statement No. 1, 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 herein are made subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

DATED: January 30, 2026

Signature: */s/ Lafayette K. Morgan*
Lafayette K. Morgan

Address: Exeter Associates, Inc.
10480 Little Patuxent Parkway
Suite 300
Columbia, MD 21044-3575

OCA Statement 2

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	**:**	
	:	**Docket Nos. R-2025-3057983**
v.	**:**	**R-2025-3058051**
	:	
Pennsylvania American Water Company	**:**	

DIRECT TESTIMONY

OF

DAVID J. GARRETT

ON BEHALF OF

THE PENNSYLVANIA OFFICE OF CONSUMER ADVOCATE

January 30, 2026

TABLE OF CONTENTS

I. INTRODUCTION 1

II. EXECUTIVE SUMMARY 2

A. Rate of Return Summary 2

B. Depreciation Summary 3

Part One: Rate of Return

III. REGULATORY STANDARDS 6

IV. GENERAL CONCEPTS AND METHODOLOGY 9

V. RISK AND RETURN CONCEPTS 12

VI. DISCOUNTED CASH FLOW ANALYSIS 18

A. Stock Price 19

B. Dividend 21

C. Growth Rate 21

D. Response to Ms. Bulkley's DCF Model 26

VII. CAPITAL ASSET PRICING MODEL ANALYSIS 27

A. The Risk-Free Rate 28

B. The Beta Coefficient 29

C. The Equity Risk Premium 30

D. Response to Ms. Bulkley's CAPM Analysis 37

1. Equity Risk Premium 38

2. Empirical CAPM 39

VIII. RATE OF RETURN CONCLUSION 40

Part Two: Depreciation

IX. REGULATORY STANDARDS 44

A. Depreciation System 45

B. Average Life vs Equal Life Method 46

X. SERVICE LIFE ANALYSIS 53

LIST OF EXHIBITS

Part One: Rate of Return

Exhibit DJG-1	Curriculum Vitae
Exhibit DJG-2	Proxy Group Summary
Exhibit DJG-3	DCF – Stock and Index Prices
Exhibit DJG-4	DCF – Dividend Yields
Exhibit DJG-5	DCF – Terminal Growth Determinants
Exhibit DJG-6	DCF – Final Results
Exhibit DJG-7	CAPM – Risk-Free Rate Estimate
Exhibit DJG-8	CAPM – Beta Coefficients
Exhibit DJG-9	CAPM – Implied ERP Estimate
Exhibit DJG-10	CAPM – Equity Risk Premium Results
Exhibit DJG-11	CAPM – Final Results
Exhibit DJG-12	Cost of Equity Summary
Exhibit DJG-13	Final Rate of Return Recommendation

Part Two: Depreciation

Exhibit DJG-14	Summary Rate and Accrual Adjustment
Exhibit DJG-15	Detailed Rate Comparison – 2025
Exhibit DJG-16	Depreciation Rate Development – 2025
Exhibit DJG-17	Detailed Rate Comparison – 2026
Exhibit DJG-18	Depreciation Rate Development – 2026
Exhibit DJG-19	Detailed Rate Comparison – 2027
Exhibit DJG-20	Depreciation Rate Development – 2027
Exhibit DJG-21	Remaining Life Development – 2025
Exhibit DJG-22	Remaining Life Development – 2026
Exhibit DJG-23	Remaining Life Development – 2027

APPENDICES

Appendix A:	Discounted Cash Flow Model Theory
Appendix B:	Capital Asset Pricing Model Theory
Appendix C:	The Depreciation System
Appendix D:	Iowa Curves
Appendix E:	Actuarial Analysis

I. INTRODUCTION

Q. State your name and occupation.

A. My name is David J. Garrett. I am a consultant specializing in public utility regulation. I am the managing member of Resolve Utility Consulting PLLC.

Q. Summarize your educational background and professional experience.

A. I received a B.B.A. with a major in Finance, an M.B.A., and a Juris Doctor from the University of Oklahoma. I worked in private legal practice for several years before accepting a position as assistant general counsel at the Oklahoma Corporation Commission in 2011. At the commission, I worked in the Office of General Counsel in regulatory proceedings. In 2012, I began working for the Public Utility Division as a regulatory analyst providing testimony in regulatory proceedings. After leaving the commission, I formed Resolve Utility Consulting PLLC, where I have represented various consumer groups and state agencies in utility regulatory proceedings, primarily in the areas of cost of capital and depreciation. I am a Certified Depreciation Professional with the Society of Depreciation Professionals. I am also a Certified Rate of Return Analyst with the Society of Utility and Regulatory Financial Analysts. A more complete description of my qualifications and regulatory experience is included in my curriculum vitae.[1]

Q. On whose behalf are you testifying in this proceeding?

A. I am testifying on behalf of the Pennsylvania Office of Consumer Advocate ("OCA").

[1] Exhibit DJG-1.

Q. Describe the purpose and scope of your testimony in this proceeding.

A. My testimony addresses Pennsylvania-American Water Company's ("PAWC" or the "Company") proposed rate of return in response to the direct testimony of PAWC witness Ann Bulkley. I also address PAWC's depreciation study and proposed depreciation rates in response to the direct testimony of Company witness John Spanos.

Q. Please describe the organization of your testimony.

A. In the executive summary below, I provide an overview of the cost of capital issues, my recommendations, and my response to PAWC's testimony on these issues. In the sections that follow, I discuss the legal standards governing the awarded return issue as well as the general concepts involved in estimating the cost of equity. I discuss the concepts of risk and return. I provide detailed analysis of the Discounted Cash Flow ("DCF") Model, the Capital Asset Pricing Model ("CAPM"), including my results for these models and my responses to Ms. Bulkley's results. In addition, I discuss my recommendation to reject PAWC's proposed depreciation rates, which are based on a methodology that effectively results in accelerated capital recovery.

II. EXECUTIVE SUMMARY

A. Rate of Return Summary

Q. Please summarize your rate of return recommendation to the Commission.

A. The key points of my testimony are as follows:

- The Commission should reject PAWC's proposed return on equity ("ROE") of 10.95% as excessive and unsupported. An objective cost of equity analysis shows

that PAWC's market-determined cost of equity is notably lower than PAWC's proposed ROE.

- Based on the results of my financial modeling using the DCF and CAPM models, I recommend that the Commission authorize an ROE of 8.7% for PAWC.
- My proposed adjustment to PAWC's ROE results in an overall weighted rate of return of 6.96% for water operations and 6.59% for wastewater operations. Adopting my recommended adjustment to the authorized rate of return would result in a revenue requirement reduction of **.[2]

B. Depreciation Summary

Q. Please summarize PAWC's proposed depreciation rates.

A. PAWC's proposed depreciation rates amount to a total annual depreciation accrual of $263 million based on plant balances at June 30, 2027.[3] PAWC's proposed depreciation rates are based on the depreciation study sponsored by Mr. Spanos, which is based on plant balances as of June 30, 2025 (the "2025 Study"), June 30, 2026 (the "2026 Study"), and June 30, 2027 (the "2027 Study"). Mr. Spanos applied the equal life group ("ELG") method to calculate his proposed remaining lives for PAWC's depreciable plant.

[2] *See* OCA Statement 1.

[3] Exhibit DJG-14.

Q. Please summarize your adjustments to PAWC's proposed depreciation rates.

A. I recommend that the Commission authorize depreciation rates for PAWC's assets that are calculated using the average life group ("ALG") method. The key points of my testimony are as follows:

- The Commission should reject PAWC's continued use of the ELG method, which effectively results in an accelerated form of cost recovery from consumers. PAWC's use of the ELG method, rather than the widely applied ALG method, increases the annual depreciation accrual charged to customers by $50.1 million in the 2025 Study, by $50.2 million in the 2026 Study, and by $49.9 million in the 2027 Study. In other words, even if there are no adjustments to the net salvage rates, service life, or other depreciation parameters for any accounts in the depreciation study, using the majority-view ALG method alone will result in significantly fairer rates for customers. In addition, in the pending PPL Electric Utilities Corporation base rate case before the Commission (Docket No. R-2025-3057164), Mr. Spanos is proposing ALG depreciation rates.[4]
- The results of my application of the ALG method to PAWC's depreciation studies are summarized in the table below.[5]

[4] Direct Testimony of John J. Spanos, Docket No. R-2025-3057164 (Sep. 30, 2025).

[5] Exhibit DJG-17; *see also* Exhibits DJG-18 through DJG-23 for detailed depreciation rate calculations and comparisons for the 2024 Study, 2025 Study, and 2026 Study.

Figure 1:
Summary Depreciation Accrual Adjustment – 2025 Study

Plant Operations	PAWC Accrual	OCA Accrual	OCA Adjustment
Water Operations	$ 190,896,455	$ 154,040,446	$ (36,856,009)
Wastewater Sanitary Sewer System (SSS)	26,745,064	20,638,871	(6,106,193)
Butler Area Sewer Authority (BASA)	10,875,378	7,071,721	(3,803,657)
Wastewater Combined Sewer System (CSS)	19,043,262	15,662,376	(3,380,886)
TOTAL PLANT STUDIED	**$ 247,560,159**	**$ 197,413,414**	**$ (50,146,745)**

Figure 2:
Summary Depreciation Accrual Adjustment – 2026 Study

Plant Operations	PAWC Accrual	OCA Accrual	OCA Adjustment
Water Operations	$ 194,622,280	$ 157,589,083	$ (37,033,197)
Wastewater Sanitary Sewer System (SSS)	26,421,463	20,632,278	(5,789,185)
Butler Area Sewer Authority (BASA)	10,716,015	6,833,684	(3,882,331)
Wastewater Combined Sewer System (CSS)	18,983,484	15,870,260	(3,113,224)
Elizabeth Borough Wastewater	1,064,881	732,425	(332,456)
TOTAL PLANT STUDIED	**$ 251,808,123**	**$ 201,657,731**	**$ (50,150,392)**

Figure 3:
Summary Depreciation Accrual Adjustment – 2027 Study

Plant Operations	PAWC Accrual	OCA Accrual	OCA Adjustment
Water Operations	$ 204,148,039	$ 167,195,229	$ (36,952,810)
Wastewater Sanitary Sewer System (SSS)	26,943,479	21,141,801	(5,801,678)
Butler Area Sewer Authority (BASA)	11,299,118	7,431,909	(3,867,209)
Wastewater Combined Sewer System (CSS)	19,602,347	16,619,156	(2,983,191)
Elizabeth Borough Wastewater	1,035,500	742,790	(292,710)
TOTAL PLANT STUDIED	**$ 263,028,483**	**$ 213,130,885**	**$ (49,897,598)**

The evidence supporting my recommendations are discussed in more detail in my testimony.

PART ONE: RATE OF RETURN

III. REGULATORY STANDARDS

Q. Discuss the legal standards governing the awarded rate of return on capital investments for regulated utilities.

A. In *Wilcox v. Consolidated Gas Co. of New York*, [6] the Supreme Court first addressed the meaning of a fair rate of return for public utilities. The Court found that "the amount of risk in the business is a most important factor" in determining the appropriate allowed rate of return.[7] Later, in two landmark cases, the Court set forth the standards by which utilities are allowed to earn a return on capital investments. In *Bluefield Water Works & Improvement Co. v. Public Service Commission of West Virginia*, [8] the Court held:

> A public utility is entitled to such rates as will permit it to earn a return on the value of the property which it employs for the convenience of the public . . . but it has no constitutional right to profits such as are realized or anticipated in highly profitable enterprises or speculative ventures. The return should be reasonably sufficient to assure confidence in the financial soundness of the utility and should be adequate, under efficient and economical management, to maintain and support its credit and enable it to raise the money necessary for the proper discharge of its public duties.[9]

In *Federal Power Commission v. Hope Natural Gas City*,[10] the Court expanded on the guidelines set forth in *Bluefield* and stated:

---

[6] *Wilcox v. Consolidated Gas Co. of New York*, 212 U.S. 19 (1909).

[7] *Id*. at 48.

[8] *Bluefield Water Works & Improvement Co. v. Public Service Commission of West Virginia*, 262 U.S. 679 (1923).

[9] *Id.* at 692-93.

[10] *Federal Power Commission v. Hope Natural Gas Co*., 320 U.S. 591 (1944).

> From the investor or company point of view it is important that there be enough revenue not only for operating expenses but also for the capital costs of the business. These include service on the debt and dividends on the stock. By that standard the return to the equity owner should be commensurate with returns on investments in other enterprises having corresponding risks. That return, moreover, should be sufficient to assure confidence in the financial integrity of the enterprise, so as to maintain its credit and to attract capital.[11]

The cost of capital models I have employed in this case are in accordance with the foregoing legal standards.

Q. Should the awarded rate of return be based on PAWC's actual cost of capital?

A. Yes. The *Hope* Court makes it clear that the allowed return should be based on the actual cost of capital. Moreover, the awarded return must also be fair, just, and reasonable under the circumstances of each case. Under the rate base rate of return model, a utility should be allowed to recover all its reasonable expenses, its capital investments through depreciation, and a return on its capital investments sufficient to satisfy the required return of its investors. The "required return" from the investors' perspective is synonymous with the "cost of capital" from the utility's perspective. Scholars agree that the allowed rate of return should be based on the actual cost of capital:

> Since by definition the cost of capital of a regulated firm represents precisely the expected return that investors could anticipate from other investments while bearing no more or less risk, and since investors will not provide capital unless the investment is expected to yield its opportunity cost of capital, the correspondence of the definition of the cost of capital with the court's definition of legally required earnings appears clear.[12]

---

[11] *Id.* at 603 (emphasis added).

[12] A. Lawrence Kolbe, James A. Read, Jr. & George R. Hall, *The Cost of Capital: Estimating the Rate of Return for Public Utilities*, p. 21 (The MIT Press 1984).

The models I have employed in this case closely estimate PAWC's market-based cost of equity. If the Commission sets the awarded return based on my lower, and more reasonable, rate of return, it will comply with the U.S. Supreme Court's standards, allow PAWC to maintain its financial integrity, and satisfy the claims of its investors. On the other hand, if the Commission sets the allowed rate of return *higher* than the true cost of capital, it arguably results in an inappropriate transfer of wealth.

Q. What does this standard mean for determining the awarded return and the cost of capital?

A. It is important to understand that the *awarded* return and the *cost* of capital are different but related concepts. The two concepts are related in that the legal and technical standards encompassing this issue require that the awarded return reflects the true cost of capital. On the other hand, the two concepts are different in that the legal standards do not mandate that awarded returns exactly match the cost of capital. Awarded returns are set through the regulatory process and may be influenced by factors other than objective market drivers. The cost of capital, on the other hand, should be evaluated objectively and be closely tied to economic realities. In other words, the cost of capital is driven by stock prices, dividends, growth rates, and — most importantly — it is driven by risk. The cost of capital can be estimated by financial models used by firms, investors, and academics around the world for decades. The problem is, with respect to regulated utilities, there has been a trend in which awarded returns fail to closely track with actual market-based cost of capital as further discussed below. To the extent this occurs, the results are detrimental to ratepayers and the state's economy.

Q. Describe the economic impact that occurs when the awarded return strays too far from the U.S. Supreme Court's cost of equity standard.

A. When the awarded ROE is set far above the *cost* of equity, it runs the risk of violating the U.S. Supreme Court's standards that the awarded return should be *based on the cost of capital*. Establishing an awarded return that far exceeds the true cost of capital effectively prevents the awarded returns from changing along with economic conditions. This is especially true given the fact that regulators tend to be influenced by the awarded returns in other jurisdictions, regardless of the various unknown factors influencing those awarded returns. This is yet another reason why it is crucial for regulators to focus on the market-based *cost* of equity, rather than awarded returns from other jurisdictions. Awarded returns may be influenced by settlements and other political factors not based on true market conditions. In contrast, the market-based cost of equity as estimated through objective models is not influenced by these factors but is instead driven by market-based factors. If regulators rely too heavily on the awarded returns from other jurisdictions, it can create a cycle over time that bears little relation to the market-based cost of equity.

IV. GENERAL CONCEPTS AND METHODOLOGY

Q. Discuss your approach to estimating the cost of equity in this case.

A. While a competitive firm must estimate its own cost of capital to assess the profitability of competing capital projects, regulators determine a utility's cost of capital to establish a fair rate of return. The legal standards set forth above do not include specific guidelines regarding the models that must be used to estimate the cost of equity. Over the years, however, regulatory commissions have consistently relied on several models. The models I have employed in this case have been the two most widely used and accepted in regulatory

proceedings for many years. These models are the DCF Model and the CAPM. The specific inputs and calculations for these models are described in more detail below.

Q. Please explain why multiple models are used to estimate the cost of equity.

A. The models used to estimate the cost of equity attempt to measure the return on equity required by investors by estimating several different inputs. It is preferable to use multiple models because the results of any one model may contain a degree of imprecision, especially depending on the reliability of the inputs used at the time of conducting the model. By using multiple models, the analyst can compare the results of the models and look for outlying results and inconsistencies. Likewise, if multiple models produce a similar result, it may indicate a narrower range for the cost of equity estimate.

Q. Please discuss the benefits of choosing a proxy group of companies in conducting cost of capital analyses.

A. The cost of equity models in this case can be used to estimate the cost of capital of any individual, publicly-traded company. There are advantages, however, to conducting cost of capital analyses on a "proxy group" of companies that are comparable to the target company. First, it is better to assess the financial soundness of a utility by comparing it to a group of other financially sound utilities. Second, using a proxy group provides more reliability and confidence in the overall results because there is a larger sample size. Finally, the use of a proxy group is often a pure necessity when the target company is a subsidiary that is not publicly traded. This is because the financial models used to estimate the cost of equity require information from publicly-traded firms, such as stock prices and dividends.

Q. Describe the proxy group you selected in this case.

A. In this case, Ms. Bulkley selected a proxy group consisting of five water utilities and six gas utilities. In addition, Ms. Bulkley did not include PAWC's parent company, American Water Works ("AWK") in her proxy group. For my proxy group, I used the same five water utilities selected by Ms. Bulkley. However, I also included AWK in my proxy group in order to increase the sample size. However, I did not apply any more or less weighting or consideration to the modeling results as they relate to AWK. In that regard, I believe the larger sample size outweighs any concerns regarding a circular reference problem of including AWK. In addition, it is not uncommon for parent companies to be included in the proxy groups for analyzing the subsidiary's cost of equity in regulatory proceedings. I did not include the gas companies Ms. Bulkley used in her proxy group because they are relatively less comparable to PAWC than the water utilities. Moreover, in the final order of the 2023 BRC Docket No. R-2023-3043189, the Commission found that a "proxy group, comprised solely of water utilities, is the proxy group proffered in this proceeding that most closely resembles PAWC."[13] I would also note however, that the main drivers for the discrepancies between Ms. Bulkley's and my modeling results is primarily due to the inputs and assumptions to the models themselves, rather than the different compositions of the proxy groups.

[13] Final Order p. 149, Docket No. R-2023-3043189.

V. RISK AND RETURN CONCEPTS

Q. Please discuss the general relationship between risk and return.

A. As discussed above, risk is the most important factor for the Commission to consider when determining the allowed return. There is a direct relationship between risk and return: the more (or less) risk an investor assumes, the larger (or smaller) return the investor will demand. There are two primary types of risk: firm-specific risk and market risk. Firm-specific risk affects individual companies, while market risk affects all companies in the market to varying degrees.

Q. Discuss the differences between firm-specific risk and market risk.

A. Firm-specific risk affects individual companies, rather than the entire market. For example, a competitive firm might overestimate customer demand for a new product, resulting in reduced sales revenue. This is an example of a firm-specific risk called "project risk."[14] There are several other types of firm-specific risks, including: (1) "financial risk" — the risk that equity investors of leveraged firms face as residual claimants on earnings; (2) "default risk" — the risk that a firm will default on its debt securities; and (3) "business risk" — which encompasses all other operating and managerial factors that may result in investors realizing less than their expected return in that particular company.

While firm-specific risk affects individual companies, market risk affects all companies in the market to varying degrees. Examples of market risk include interest rate

[14] Aswath Damodaran, *Investment Valuation: Tools and Techniques for Determining the Value of Any Asset*, pp. 62-63 (3rd ed., John Wiley & Sons, Inc. 2012).

risk, inflation risk, and the risk of major socio-economic events. When there are changes in these risk factors, they affect all firms in the market to some extent.[15]

Analysis of the U.S. market in 2001 provides a good example for contrasting firm-specific risk and market risk. During that year, Enron Corp.'s stock fell from $80 per share and the company filed for bankruptcy at the end of the year. If an investor's portfolio had held only Enron stock at the beginning of 2001, this irrational investor would have lost the entire investment by the end of the year due to assuming the full exposure of Enron's firm-specific risk (in that case, imprudent management). On the other hand, a rational, diversified investor who invested the same amount of capital in a portfolio holding every stock in the S&P 500 would have had a much different result that year. The rational investor would have been relatively unaffected by the fall of Enron because her portfolio included 499 other stocks. Each of those stocks, however, would have been affected by various *market* risk factors that occurred that year, including the terrorist attacks on September 11th, which affected all stocks in the market. Thus, the rational investor would have incurred a relatively minor loss due to market risk factors, while the irrational investor would have lost everything due to firm-specific risk factors.

Q. Can investors minimize firm-specific risk through portfolio diversification?

A. Yes. A fundamental concept in finance is that firm-specific risk can be minimized through diversification.[16] If someone irrationally invested all their funds in one firm (such as Enron), they would be exposed to all the firm-specific risk *and* the market risk inherent in

---

[15] *See* Zvi Bodie, Alex Kane & Alan J. Marcus, *Essentials of Investments*, p. 149 (9th ed., McGraw-Hill/Irwin 2013).

[16] *See* John R. Graham, Scott B. Smart & William L. Megginson, *Corporate Finance: Linking Theory to What Companies Do*, pp. 179-80 (3rd ed., South Western Cengage Learning 2010).

that single firm. Rational investors, however, are risk-averse and seek to eliminate risk they can control. Investors can essentially eliminate firm-specific risk by adding more stocks to their portfolio through a process called "diversification."

There are two reasons why diversification eliminates firm-specific risk. First, each stock in a diversified portfolio represents a much smaller percentage of the overall portfolio than it would in a portfolio of just one or a few stocks. Thus, any firm-specific action that changes the stock price of one stock in the diversified portfolio will have only a small impact on the entire portfolio.[17]

The second reason why diversification eliminates firm-specific risk is that the effects of firm-specific actions on stock prices can be either positive or negative for each stock. Thus, in large, diversified portfolios, the net effect of these positive and negative firm-specific risk factors will be essentially zero and will not affect the value of the overall portfolio.[18] Firm-specific risk is also called "diversifiable risk" because it can be easily eliminated through diversification.

Q. Do investors expect an additional return for assuming firm-specific risks?

A. No. Because investors eliminate firm-specific risk through diversification, they know they cannot expect a higher return for assuming the firm-specific risk in any one company. Thus, the risks associated with an individual firm's operations are not rewarded by the market. In fact, firm-specific risk is also called "unrewarded" risk for this reason. Market risk, on the other hand, cannot be eliminated through diversification. Because market risk

---

[17] *See* Aswath Damodaran, *Investment Valuation: Tools and Techniques for Determining the Value of Any Asset*, p. 64 (3rd ed., John Wiley & Sons, Inc. 2012).

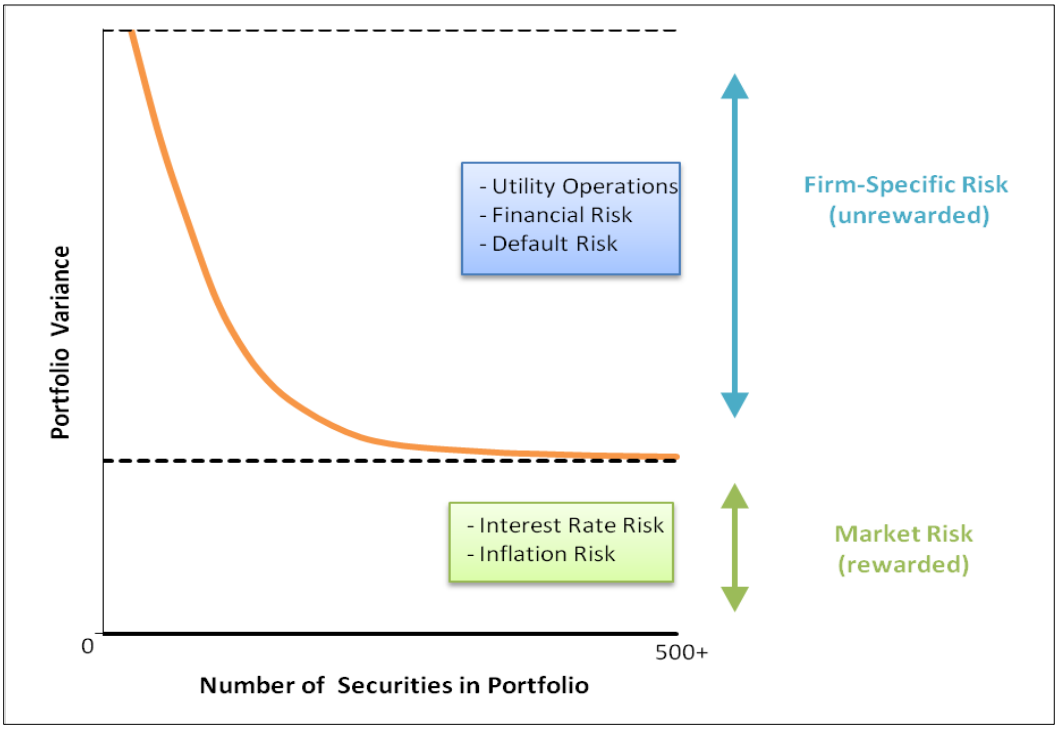
[18] *Id*.

cannot be eliminated through diversification, investors expect a return for assuming this type of risk. Market risk is also called "systematic risk." Scholars recognize the fact that market risk, or "systematic risk," is the only type of risk for which investors expect a return for bearing:

> If investors can cheaply eliminate some risks through diversification, then we should not expect a security to earn higher returns for risks that can be eliminated through diversification. Investors can expect compensation *only* for bearing systematic risk (i.e., risk that cannot be diversified away).[19]

These important concepts are illustrated in the figure below. Some form of this figure is found in many financial textbooks.

Figure 4:
Effects of Portfolio Diversification



[19] *See* John R. Graham, Scott B. Smart & William L. Megginson, *Corporate Finance: Linking Theory to What Companies Do*, p. 180 (3rd ed., South Western Cengage Learning 2010) (emphasis added).

This figure shows that as stocks are added to a portfolio, the amount of firm-specific risk is reduced until it is essentially eliminated. No matter how many stocks are added, however, there remains a certain level of fixed market risk. The level of market risk will vary from firm to firm. Market risk is the only type of risk that is rewarded by the market and is thus the primary type of risk the Commission should consider when determining the allowed return for the utilities it regulates.

Q. Describe how market risk is measured.

A. Investors who want to eliminate firm-specific risk must hold a fully diversified portfolio. To determine the amount of risk that a single stock adds to the overall market portfolio, investors measure the covariance between a single stock and the market portfolio. The result of this calculation is called "beta."[20] Beta represents the sensitivity of a given security to the market as a whole. The market portfolio of all stocks has a beta equal to one. Stocks with betas greater than one are relatively more sensitive to market risk than the average stock. For example, if the market increases (decreases) by 1.0%, a stock with a beta of 1.5 will, on average, increase (decrease) by 1.5%. In contrast, stocks with betas of less than one are less sensitive to market risk, such that if the market increases (decreases) by 1.0%, a stock with a beta of 0.5 will, on average, only increase (decrease) by 0.5%. Thus, stocks with low betas are relatively insulated from market conditions. The beta term is used in the CAPM to estimate the cost of equity, which is discussed in more detail later.[21]

---

[20] *Id*. at 180-81.

[21] Though it will be discussed in more detail later, Exhibit DJG-8 shows that the average beta of the proxy group was less than 1.0. This confirms the well-known concept that utilities are relatively low-risk firms.

Q. Are public utilities characterized as defensive firms that have low betas, low market risk, and are relatively insulated from overall market conditions?

A. Yes. Although market risk affects all firms in the market, it affects different firms to varying degrees. Firms with high betas are affected more than firms with low betas, which is why firms with high betas are riskier. Stocks with betas greater than one are generally known as "cyclical stocks." Firms in cyclical industries are sensitive to recurring patterns of recession and recovery known as the "business cycle."[22] Thus, cyclical firms are exposed to a greater level of market risk. Securities with betas less than one, on the other hand, are known as "defensive stocks." Companies in defensive industries, such as public utility companies, "will have low betas and performance that is comparatively unaffected by overall market conditions."[23] In fact, financial textbooks often use utility companies as prime examples of low-risk, defensive firms. The figure below compares the betas of several industries and illustrates that the utility industry is one of the least risky industries in the U.S. market.[24]

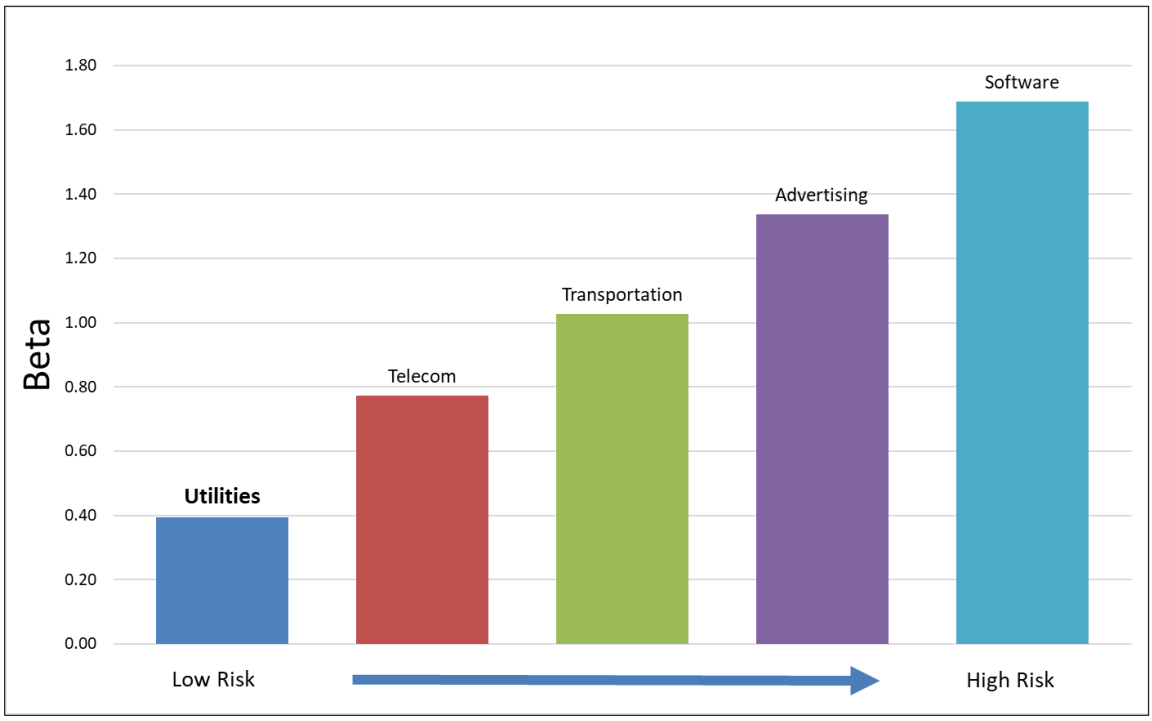
---

[22] *See* Zvi Bodie, Alex Kane & Alan J. Marcus, *Essentials of Investments*, p. 382 (9th ed., McGraw-Hill/Irwin 2013).

[23] *Id*. at 383.

[24] *See* Betas by Sector (US) available at http://pages.stern.nyu.edu/~adamodar/ (2018). (After clicking the link, click "Data" then "Current Data" then "Risk / Discount Rate" from the drop down menu, then "Total Beta by Industry Sector"). The exact beta calculations are not as important as illustrating the well-known fact that utilities are very low-risk companies. The fact that the utility industry is one of the lowest risk industries in the country should not change from year to year.

Figure 5:
Beta by Industry



While utilities are defensive firms that experience little market risk and are relatively insulated from market conditions, this fact should also be appropriately reflected in authorized returns.

VI. DISCOUNTED CASH FLOW ANALYSIS

Q. Describe the DCF Model.

A. The DCF Model is based on a fundamental financial model called the "dividend discount model," which maintains that the value of a security is equal to the present value of the

future cash flows it generates.[25] Cash flows from common stock are paid to investors in the form of dividends. There are several variations of the DCF Model. These versions, along with other formulas and theories related to the DCF Model, are discussed in more detail in Appendix A.

Q. Describe the inputs to the DCF Model.

A. There are three primary inputs in the DCF Model: (1) stock price; (2) dividend; and (3) the long-term growth rate. The stock prices and dividends are known inputs based on recorded data, while the growth rate projection must be estimated. I discuss each of these inputs separately below.

A. Stock Price

Q. How did you determine the stock price input of the DCF Model?

A. For the stock price (P_0), I used a 30-day average of stock prices for each company in the proxy group.[26] Analysts sometimes rely on average stock prices for longer periods (*e.g.*, 60, 90, or 180 days). According to the efficient market hypothesis, however, markets reflect all relevant information available at a particular time, and prices adjust instantaneously to the arrival of new information.[27] Past stock prices, in essence, reflect

[25] Present value (PV) is the current value of a future sum of money or stream of cash flows given a specified rate of return. Present value takes the future value and applies a discount rate or the interest rate that could be earned if invested.

[26] Exhibit DJG-3.

[27] *See* Eugene F. Fama, *Efficient Capital Markets: A Review of Theory and Empirical Work*, Vol. 25, No. 2 The Journal of Finance, p. 383 (1970); *see also* John R. Graham, Scott B. Smart & William L. Megginson, *Corporate Finance: Linking Theory to What Companies Do*, p. 357 (3rd ed., South Western Cengage Learning 2010). The efficient market hypothesis was formally presented by Eugene Fama in 1970 and is a cornerstone of modern financial theory and practice.

outdated information. The DCF Model used in utility rate cases is a derivation of the dividend discount model, which is used to determine the current value of an asset. Thus, according to the dividend discount model and the efficient market hypothesis, the value for the "P_0" term in the DCF Model should technically be the current stock price, rather than an average.

Q. Why did you use a 30-day average for the current stock price input?

A. Using a short-term average of stock prices for the current stock price input adheres to market efficiency principles while avoiding any irregularities that may arise from using a single current stock price. In the context of a utility rate proceeding, there is a significant length of time between when an application is filed and when testimony is due. Choosing a current stock price for one particular day could raise a separate issue concerning which day was chosen to be used in the analysis. In addition, a single stock price on a particular day may be unusually high or low. It is arguably ill-advised to use a single stock price in a model that is ultimately used to set rates for several years, especially if a stock is experiencing some volatility. Thus, it is preferable to use a short-term average of stock prices, which represents a good balance between adhering to well-established principles of market efficiency while avoiding any unnecessary contentions that may arise from using a single stock price on a given day. The stock prices I used in my DCF analysis are based on 30-day averages of adjusted closing stock prices for each company in the proxy group.[28]

[28] Exhibit DJG-3. Adjusted closing prices, rather than actual closing prices, are ideal for analyzing historical stock prices. The adjusted price provides an accurate representation of the firm's equity value beyond the mere market price because it accounts for stock splits and dividends.

B. Dividend

Q. Describe how you determined the dividend input of the DCF Model.

A. The dividend term in the DCF Model represents dividends per share (d_0). I used forward-looking annualized dividends published by Yahoo! Finance for the dividend input to my constant growth DCF Model.[29] Dividing these dividends by the stock prices for each proxy company results in the dividend yield for each company.[30]

Q. Are the stock price and dividend inputs for each proxy company a significant issue in this case?

A. No. Although my stock price and dividend inputs are more recent than those used by Ms. Bulkley, there is not a statistically significant difference between them because utility stock prices and dividends are generally quite stable. This is another reason that cost of capital models such as the CAPM and the DCF Model are well-suited to be conducted on utilities. The differences between my DCF Model and Ms. Bulkley's DCF Model are primarily driven by differences in our growth rate estimates, which are further discussed below.

C. Growth Rate

Q. Please summarize the growth rate input in the DCF Model.

A. The most critical input in the DCF Model is the growth rate. Unlike the stock price and dividend inputs, the growth rate input (g) must be estimated. As a result, the growth rate is often the most contentious issue related to DCF model inputs in utility rate cases. The DCF model used in this case is based on the sustainable growth valuation model. Under

[29] Exhibit DJG-4.

[30] *Id*.

this model, a stock is valued by the present value of its future cash flows in the form of dividends. Before future cash flows are discounted by the cost of equity, however, they must be "grown" into the future by a sustainable growth rate. As stated above, one of the inherent assumptions of this model is that these cash flows in the form of dividends grow at a sustainable rate forever. For young, high-growth firms, estimating the growth rate to be used in the model can be especially difficult, and may require the use of multi-stage growth models. For mature, low-growth firms such as utilities, however, estimating the sustainable growth rate is more transparent. The growth term of the DCF Model is one of the most important, yet least understood, aspects of cost of equity estimations in utility regulatory proceedings. I provide a more detailed explanation on the various determinants of growth below.

Q. Describe the various determinants of growth that can be considered for the growth rate input in the DCF Model.

A. Although the DCF Model directly considers the growth of dividends, there are a variety of growth determinants that should be considered when estimating growth rates. It should be noted that these various growth determinants are used primarily to determine the short-term growth rates in multi-stage DCF models. For utility companies, it is necessary to focus primarily on a long-term growth rate in dividends. This is also known as a "sustainable" growth rate, since this is the growth rate assumed for the company's dividends in perpetuity. That is not to say that these growth determinants cannot be considered when estimating sustainable growth; however, as discussed below, sustainable growth must be constrained much more than short-term growth, especially for young firms

with high growth opportunities. Additionally, I briefly discuss these growth determinants here because it may reveal some of the sources of confusion in this area.

(1) Historical Growth

Looking at a firm's actual historical experience may theoretically provide a good starting point for estimating short-term growth. However, past growth is not always a good indicator of future growth. Some metrics that might be considered here are a historical growth in revenues, operating income, and net income. Since dividends are paid from earnings, estimating historical earnings growth may provide an indication of future earnings and dividend growth.

(2) Analyst Growth Rates

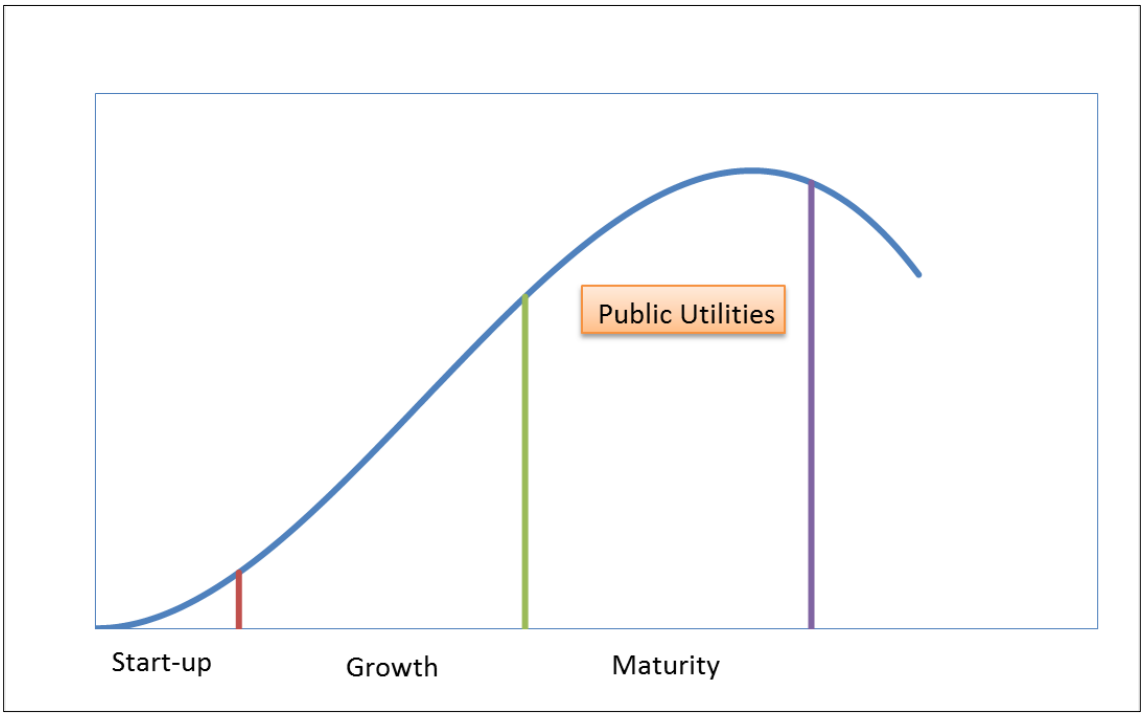
Analyst growth rates refer to short-term projections of earnings growth published by institutional research analysts such as Value Line and Bloomberg. Analyst growth rates, including the limitations with using them in the DCF Model to estimate utility cost of equity, are discussed in more detail below.

(3) Sustainable Growth Rates

In order to make the DCF Model a viable, practical model, an infinite stream of future cash flows must be estimated and then discounted back to the present. Otherwise, each annual cash flow would have to be estimated separately. Some analysts use "multi-stage" DCF Models to estimate the value of high-growth firms through two or more stages of growth, with the final stage of growth being sustainable. However, it is not necessary to use multi-stage DCF Models to analyze the cost of equity of regulated utility companies. This is because regulated utilities are already in their "sustainable," low growth stage. Unlike most competitive firms, the growth of regulated utilities is constrained by physical

service territories and limited primarily by ratepayer and load growth within those territories. The figure below illustrates the well-known business/industry life-cycle pattern.

Figure 6:
Industry Life Cycle



In an industry's early stages, there are ample opportunities for growth and profitable reinvestment. In the maturity stage however, growth opportunities diminish, and firms choose to pay out a larger portion of their earnings in the form of dividends instead of reinvesting them in operations to pursue further growth opportunities. Once a firm is in the maturity stage, it is not necessary to consider higher short-term growth metrics in multi-stage DCF Models; rather, it is sufficient to analyze the cost of equity using a stable growth DCF Model with one sustainable growth rate.

Q. Is the aggregate growth rate of the economy typically a limiting factor for the terminal growth rate in the DCF Model?

A. Yes. A fundamental concept in finance is that no firm can grow forever at a rate higher than the growth rate of the economy in which it operates.[31] Thus, the terminal growth rate used in the DCF Model should not exceed the aggregate economic growth rate. This is especially true when the DCF Model is conducted on public utilities because these firms have defined service territories. As stated by Dr. Damodaran: "[i]f a firm is a purely domestic company, either because of internal constraints . . . or external constraints (such as those imposed by a government), the growth rate in the domestic economy will be the limiting value."[32]

In fact, it is reasonable to assume that a regulated utility would grow at a rate that is less than the U.S. economic growth rate. Unlike competitive firms, which might increase their growth by launching a new product line, franchising, or expanding into new and developing markets, utility operating companies with defined service territories cannot do any of these things to grow. Gross Domestic Product ("GDP") is one of the most widely used measures of economic production and is used to measure aggregate economic growth. According to the Congressional Budget Office's Budget Outlook, the long-term forecast for nominal U.S. GDP growth is 3.7%. [33] For mature companies in mature industries, such as utility companies, the terminal growth rate should not exceed nominal GDP growth.

---

[31] *See* Aswath Damodaran, *Investment Valuation: Tools and Techniques for Determining the Value of Any Asset* 306 (3rd ed., John Wiley & Sons, Inc. 2012).

[32] Aswath Damodaran, *Investment Valuation: Tools and Techniques for Determining the Value of Any Asset* 306 (3rd ed., John Wiley & Sons, Inc. 2012).

[33] Congressional Budget Office Long-Term Budget Outlook, https://www.cbo.gov/publication/59014.

Q. Did you also consider a variation of the DCF Model that incorporates analysts' growth rate projections?

A. Yes. Despite the shortcomings of this model, I present the results of analyst growth variation of my DCF Model because it is commonly presented in rate proceedings and considered by regulators when assessing a utility's authorized ROE. I also conducted this model to compare and contrast to the DCF Model presented by Ms. Bulkley which also incorporates analysts' growth rates (further discussed below).

Q. Please describe the results of your DCF Models?

A. For my DCF Models, I considered two variations: one using analysts' growth rates and one using the maximum sustainable growth rate. The results of these models are 9.3% and 6.8%, respectively.[34]

D. Response to Ms. Bulkley's DCF Model

Q. Please summarize the results of Ms. Bulkley's DCF analyses.

A. Ms. Bulkley's application of several variations of the DCF Model produced an average result of 10.42%.[35]None of Ms. Bulkley's DCF results indicate a 10.95% return on equity. In fact, Ms. Bulkley's highest DCF result was 10.45%.

Q. Does the result of Ms. Bulkley's DCF Model indicate a reasonable cost of equity estimate for PAWC?

A. No. The primary reason Ms. Bulkley's DCF results are overstated is her use of unsustainably high growth rates for the proxy group. Ms. Bulkley considered average

[34] Exhibit DJG-12.

[35] Direct Testimony of Ann Bulkley, Exh. No. 13-A, Sch. 1.

growth rates as high as 13% for individual companies in her proxy group.[36] Growth rates this high are significantly higher than projected annual U.S. GDP growth over the long run. Thus, they are not sustainable and produce unreasonably high DCF cost of equity indications. The analysts who publish projected growth rates in dividends and earnings are estimating the growth rate over the next few years (i.e., short-term growth). It is Ms. Bulkley who is incorporating these short-term growth rates as perpetual growth rates into her DCF Model. Growth rates that significantly exceed U.S. GDP growth are not sustainable. In other words, growth rates that exceed GDP effectively suggest that the individual earnings of a single company will eventually surpass U.S. GDP, which is impossible. As a result, Ms. Bulkley's DCF Model results overstate PAWC's cost of equity.

VII. CAPITAL ASSET PRICING MODEL ANALYSIS

Q. Please describe the CAPM.

A. The CAPM is a market-based model founded on the principle that investors expect higher returns for incurring additional risk.[37] The CAPM estimates this expected return. The various assumptions, theories, and equations involved in the CAPM are discussed further in Appendix B. Using the CAPM to estimate the cost of equity of a regulated utility is consistent with the legal standards governing the fair rate of return. The U.S. Supreme

[36] Id. at Sch. 4.

[37] William F. Sharpe, *A Simplified Model for Portfolio Analysis*, pp. 277-93 (Management Science IX 1963); *see also* John R. Graham, Scott B. Smart & William L. Megginson, *Corporate Finance: Linking Theory to What Companies Do*, p. 208 (3rd ed., South-Western Cengage Learning 2010).

Court has recognized that "the amount of *risk* in the business is a most important factor" in determining the allowed rate of return,[38] and that "the return to the equity owner should be commensurate with returns on investments in other enterprises having corresponding *risks*."[39] The CAPM is a useful model because it directly considers the amount of risk inherent in a business and directly measures the most important component of a fair rate of return analysis: Risk.

Q. Describe the inputs for the CAPM.

A. The basic CAPM equation requires only three inputs to estimate the cost of equity: (1) the risk-free rate; (2) the beta coefficient; and (3) the equity risk premium. Each input is discussed separately below.

A. The Risk-Free Rate

Q. Please explain the risk-free rate.

A. The first term in the CAPM is the risk-free rate (R_F). The risk-free rate is simply the level of return investors can achieve without assuming any risk. The risk-free rate represents the bare minimum return that any investor would require on a risky asset. Even though no investment is technically devoid of risk, investors often use U.S. Treasury securities to represent the risk-free rate because they accept that those securities essentially contain no default risk. The Treasury issues securities with different maturities, including short-term Treasury Bills, intermediate-term Treasury Notes, and long-term Treasury Bonds.

---

[38] *Wilcox*, 212 U.S. at 48 (emphasis added).

[39] *Hope Natural Gas Co*., 320 U.S. at 603 (emphasis added).

Q. Is it preferable to use the yield on long-term Treasury bonds for the risk-free rate in the CAPM?

A. Yes. In valuing an asset, investors estimate cash flows over long periods of time. Common stock is viewed as a long-term investment, and the cash flows from dividends are assumed to last indefinitely. As a result, short-term Treasury bill yields are rarely used in the CAPM to represent the risk-free rate. Short-term rates are subject to greater volatility and thus can lead to unreliable estimates. Instead, long-term Treasury bonds are usually used to represent the risk-free rate in the CAPM. I considered a 30-day average of daily Treasury yield curve rates on 30-year Treasury bonds in my risk-free rate estimate, which resulted in a risk-free rate of 4.66%.[40]

B. The Beta Coefficient

Q. How is the beta coefficient used in this model?

A. As discussed above, beta represents the sensitivity of a given security to movements in the overall market. The CAPM states that in efficient capital markets, the expected risk premium on each investment is proportional to its beta. Recall that a security with a beta greater than 1.0 is riskier than the market portfolio. Conversely, a security with a beta less than one is less risky than the market portfolio. An index such as the S&P 500 Index is used as a proxy for the market portfolio. The historical betas for publicly traded firms are published by various institutional analysts. Beta may also be calculated through a linear regression analysis, which provides additional statistical information about the relationship between a single stock and the market portfolio. The market portfolio of all stocks has a

[40] Exhibit DJG-7.

beta equal to one. Stocks with betas greater than one are relatively more sensitive to market risk than the average stock. In contrast, stocks with betas of less than one are less sensitive to market risk.

Q. Describe the source for the betas you used in your CAPM analysis.

A. I used betas recently published by Value Line Investment Survey. The beta for each proxy company is less than 1.0, and the average beta for the total proxy group is 0.78.[41] Thus, we have an objective measure to prove the well-known concept that utility stocks are less risky than the average stock in the market. While there is evidence suggesting that betas published by sources such as Value Line may actually overestimate the risk of utilities (and thus overestimate the CAPM), I used the betas published by Value Line in the interest of reasonableness.[42]

C. The Equity Risk Premium

Q. Describe the equity risk premium.

A. The final term of the CAPM is the equity risk premium ("ERP"), which is the required return on the market portfolio less the risk-free rate ($R_M - R_F$). In other words, the ERP is the level of return investors expect above the risk-free rate in exchange for investing in risky securities. Many experts agree that "the single most important variable for making investment decisions is the equity risk premium."[43] Likewise, the ERP is arguably the single most important factor in estimating the cost of capital in this matter. There are three

---

[41] Exhibit DJG-8.

[42] *See* Appendix B for a more detailed discussion of raw beta calculations and adjustments.

[43] Elroy Dimson, Paul Marsh & Mike Staunton, *Triumph of the Optimists: 101 Years of Global Investment Returns*, p. 4 (Princeton University Press 2002).

basic methods that can be used to estimate the ERP: (1) calculating a historical average; (2) taking a survey of experts; and (3) calculating the implied ERP. I will discuss each method in turn, noting advantages and disadvantages of these methods.

1. Historical Average

Q. Describe the historical equity risk premium.

A. The historical ERP may be calculated by simply taking the difference between returns on stocks and returns on government bonds over a certain period of time. Many practitioners rely on the historical ERP as an estimate for the forward-looking ERP because it is easy to obtain. However, there are disadvantages to relying on the historical ERP.

Q. What are the limitations of relying solely on a historical average to estimate the current or forward-looking ERP?

A. Some investors may rely on the historic ERP because it is convenient and easy to calculate. But what matters in the CAPM model is the current and forward-looking risk premium.[44] Some investors may think that a historic ERP provides some indication of what the prospective risk premium is; however, there is empirical evidence to suggest the prospective, forward-looking ERP is actually *lower* than the historical ERP. In a landmark publication on risk premiums around the world, *Triumph of the Optimists*, the authors suggest through extensive empirical research that the prospective ERP is lower than the historical ERP.[45] This is due in large part to what is known as "survivorship bias" or

[44] John R. Graham, Scott B. Smart & William L. Megginson, *Corporate Finance: Linking Theory to What Companies Do*, p. 330 (3rd ed., South-Western Cengage Learning 2010).

[45] Elroy Dimson, Paul Marsh & Mike Staunton, Triumph of the Optimists: 101 Years of Global Investment Returns, p. 34 (Princeton University Press 2002).

"success bias" — a tendency for failed companies to be excluded from historical indices.[46] From their extensive analysis, the authors make the following conclusion regarding the prospective ERP:

> The result is a forward-looking, geometric mean risk premium for the United States . . . of around 2½ to 4 percent and an arithmetic mean risk premium . . . that falls within a range from a little below 4 to a little above 5 percent.[47]

Indeed, these results are lower than many reported historical risk premiums. Other noted experts agree:

> The historical risk premium obtained by looking at U.S. data is biased upwards because of survivor bias. . . The true premium, it is argued, is much lower. This view is backed up by a study of large equity markets over the twentieth century (*Triumph of the Optimists*), which concluded that the historical risk premium is closer to 4%.[48]

Regardless of the variations in historic ERP estimates, many leading scholars and practitioners agree that simply relying on a historic ERP to estimate the risk premium going forward is not ideal. Fortunately, "a naïve reliance on long-run historical averages is not the only approach for estimating the expected risk premium."[49]

Q. Did you rely on the historical ERP as part of your CAPM analysis in this case?

A. No. Due to the limitations of this approach, I primarily relied on the ERP reported in expert surveys and the implied ERP method discussed below.

---

[46] *Id*. at 194.

[47] *Id*.

[48] Aswath Damodaran, *Equity Risk Premiums: Determinants, Estimation and Implications – The 2015 Edition*, p. 17 (New York University 2015).

[49] John R. Graham, Scott B. Smart & William L. Megginson, *Corporate Finance: Linking Theory to What Companies Do*, p. 330 (3rd ed., South Western Cengage Learning 2010).

2. Expert Surveys

Q. Describe the expert survey approach to estimating the ERP.

A. As its name implies, the expert survey approach to estimating the ERP involves conducting a survey of experts including professors, analysts, chief financial officers, and other executives around the country and asking them what they think the ERP is. The IESE Business School conducts such a survey each year. Its 2025 expert survey reported an average ERP of 5.5%.[50]

3. Implied Equity Risk Premium

Q. Describe the implied equity risk premium approach.

A. The third method of estimating the ERP is arguably the best. The implied ERP relies on the stable growth model proposed by Gordon, often called the "Gordon Growth Model," which is a basic stock valuation model that has been widely used in finance for many years.[51] This model is a mathematical derivation of the DCF Model. In fact, the underlying concept in both models is the same: The current value of an asset is equal to the present value of its future cash flows. Instead of using this model to determine the discount rate of one company, we can use it to determine the discount rate for the entire market by substituting the inputs of the model. Specifically, instead of using the current stock price (P_0), we will use the current value of the S&P 500 (V_{500}). Instead of using the dividends of a single firm, we will consider the dividends paid by the entire market. Additionally,

---

[50] Pablo Fernandez, et al., *Survey: Market Risk Premium and Risk-Free Rate used for 54 countries in 2025* (IESE Business School 2024), copy available at https://papers.ssrn.com/sol3/papers.cfm?abstract_id=5260463
IESE Business School is the graduate business school of the University of Navarra.

[51] Myron J. Gordon and Eli Shapiro, *Capital Equipment Analysis: The Required Rate of Profit* 102-10 (Management Science Vol. 3, No. 1 Oct. 1956).

we should consider potential dividends. In other words, stock buybacks should be considered in addition to paid dividends, as stock buybacks represent another way for the firm to transfer free cash flow to shareholders. Focusing on dividends alone without considering stock buybacks could understate the cash flow component of the model, and ultimately understate the implied ERP. The market dividend yield plus the market buyback yield gives us the gross cash yield to use as our cash flow in the numerator of the discount model. This gross cash yield is increased each year over the next five years by the growth rate. These cash flows must be discounted to determine their present value. The discount rate in each denominator is the risk-free rate (R_F) plus the discount rate (K). Equation 1 below shows how the implied return is calculated. Since the current value of the S&P is known, we can solve for K, the implied market return.[52]

Equation 1:
Implied Market Return

$$V_{500} = \frac{CY_1(1+g)^1}{(1+R_F+K)^1} + \frac{CY_2(1+g)^2}{(1+R_F+K)^2} + \cdots + \frac{CY_5(1+g)^5 + TV}{(1+R_F+K)^5}$$

where:

V_{500}	=	*current value of index (S&P 500)*
$CY_{1\text{-}5}$	=	*average cash yield over last five years (includes dividends and buybacks)*
g	=	*compound growth rate in earnings over last five years*
R_F	=	*risk-free rate*
K	=	*implied market return (this is what we are solving for)*
TV	=	*terminal value = CY_5 (1+R_F) / K*

The discount rate is called the "implied" return because it is based on the current value of the index as well as the value of free cash flow to investors projected over the next five years. Thus, based on these inputs, the market is "implying" the expected return; or in

[52] *See* Exhibit DJG-9 for detailed calculation.

other words, based on the current value of all stocks (the index price) and the projected value of future cash flows, the market is telling us the return expected by investors for investing in the market portfolio. After solving for the implied market return (K), we simply subtract the risk-free rate from it to arrive at the implied ERP as shown in the following equation.

Equation 2:
Implied Equity Risk Premium

$$Implied\ Expected\ Market\ Return - R_F = Implied\ ERP$$

Q. Discuss the results of your implied ERP calculation.

A. After collecting data for the index value, operating earnings, dividends, and buybacks for the S&P 500 over the past six years, I calculated the dividend yield, buyback yield, and gross cash yield for each year. I also calculated the compound annual growth rate (g) from operating earnings. I used these inputs, along with the risk-free rate and current value of the index to calculate a current required return on the U.S. equity market of 9.7%. I subtracted the risk-free rate to arrive at the implied equity risk premium of 5.0%.[53] Dr. Damodaran, one of the world's leading experts on the ERP, promotes the implied ERP method discussed above. He calculates monthly and annual implied ERPs with this method and publishes his results. Dr. Damodaran's average ERP estimate for December 2025 using several implied ERP variations was 4.2%.[54] Additionally, Kroll (formerly Duff & Phelps) recently published an ERP estimate of 5.0%.[55]

---

[53] *Id*.

[54] http://pages.stern.nyu.edu/~adamodar/

[55] Kroll, Cost of Capital Inputs Updated to Reflect Heightened Uncertainty in Global Economy (April 15, 2025).

Q. What are the results of your final ERP estimate?

A. For the final ERP estimate I used in my CAPM analysis, I considered the results of the ERP surveys, the estimated ERP reported by Kroll, the estimated ERP calculated by Dr. Damodaran, and the implied ERP based on my calculations.[56] The results are presented in the following figure:

Figure 7:
Equity Risk Premium Results

IESE Business School Survey	5.5%
Kroll (Duff & Phelps) Report	5.0%
Damodaran (average)	4.4%
Garrett	5.0%
Average	**5.0%**

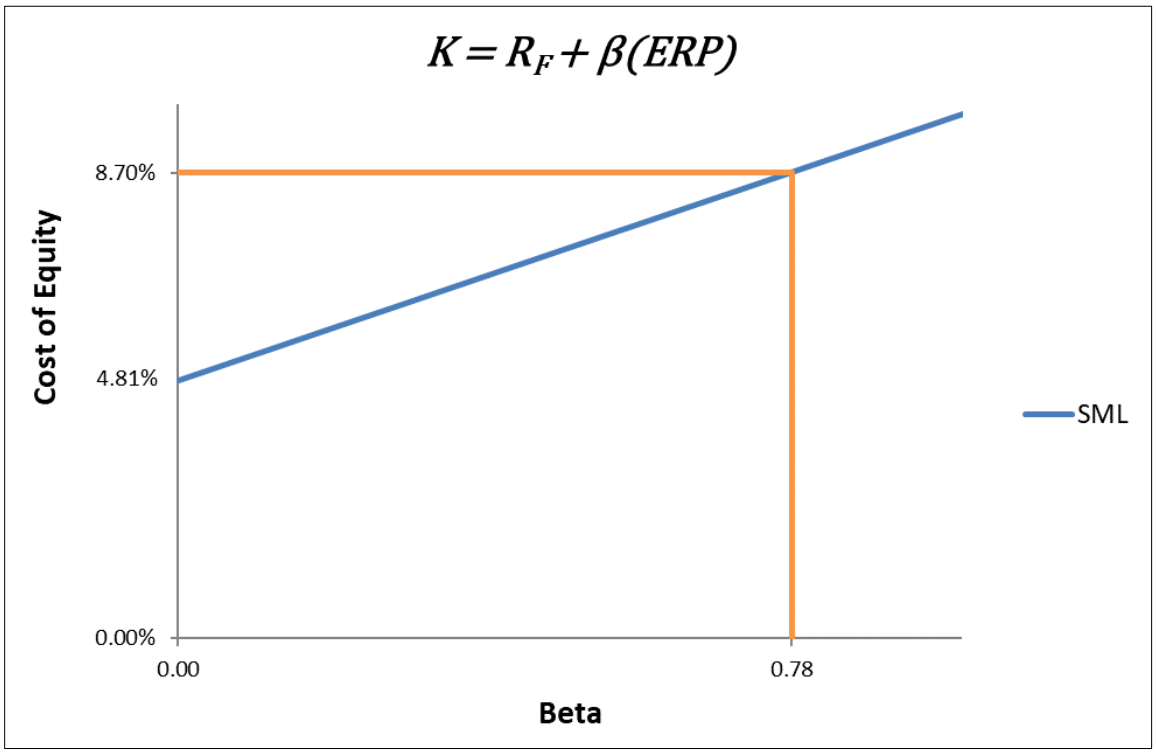
I used the average ERP of 5.0% from these sources in my CAPM.

Q. Please explain the final results of your CAPM analysis.

A. Using the inputs for the risk-free rate, beta, and equity risk premium discussed above, I estimate that PAWC's CAPM cost of equity is 8.7%. The CAPM can be displayed graphically through what is known as the Security Market Line ("SML"). The figure below shows the expected return (cost of equity) on the y-axis, and the average beta for the proxy group on the x-axis. The SML intercepts the y-axis at the level of the risk-free rate. The slope of the SML is the equity risk premium.

[56] *See also* Exhibit DJG-10.

Figure 8:
CAPM Graph



The SML provides the rate of return that will compensate investors for the beta risk of that investment. Thus, at an average beta of 0.78 for the proxy group, the CAPM result is 8.7%.

D. Response to Ms. Bulkley's CAPM Analysis

Q. Please summarize the results of Ms. Bulkley's CAPM analysis

A. Ms. Bulkley's CAPM analysis produced results ranging from 11.15% - 11.40%.[57] In addition to the CAPM, Ms. Bulkley also conducted another variation of the CAPM called the "empirical" CAPM ("ECAPM"), which produced even higher results.

[57] Direct Testimony of Ann Bulkley, p. 44, Fig. 9.

Q. Do the results of Ms. Bulkley's CAPM and other risk premium analyses indicate a reasonable cost of equity estimate for PAWC?

A. No. The primary factors which cause Ms. Bulkley's CAPM result to be unreasonably high is her use of an unreasonably high ERP estimate. Ms. Bulkley's other risk premium analysis is not a valid cost of equity model, and it relies on outdated information. I discuss these issues in more detail below.

1. Equity Risk Premium

Q. Did Ms. Bulkley rely on a reasonable measure for the ERP?

A. No. Ms. Bulkley used an ERP estimate as high as 8.94% in her CAPM analysis.[58] The ERP is one of three inputs in the CAPM equation, and it is one of the most important factors for estimating the cost of equity in this case. As discussed above, I used three widely accepted methods for estimating the ERP, including consulting expert surveys, calculating the implied ERP based on aggregate market data, and considering the ERPs published by reputable analysts. The average ERP calculated from my research is only 4.9%.

Q. Please discuss and illustrate how Ms. Bulkley's ERP compares with other estimates for the ERP.

A. The 2025 IESE Business School expert survey reports an average ERP of 5.5%. Similarly, Kroll (formerly Duff & Phelps) recently estimated an ERP of 5.0%. Dr. Damodaran, one of the leading experts on the ERP, recently estimated an ERP of only 4.2%.[59] The chart in

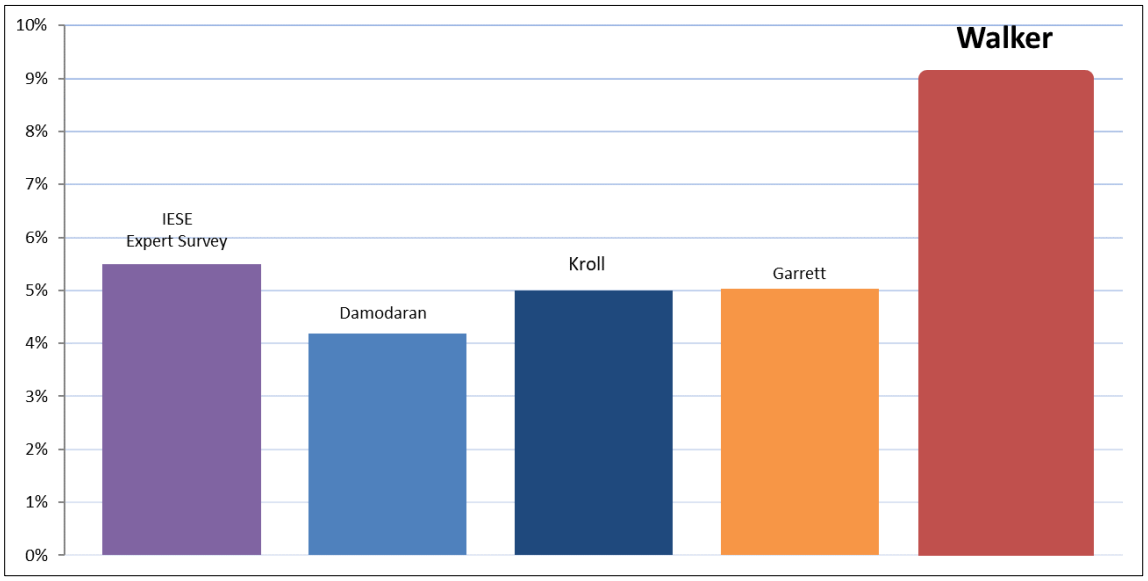
---

[58] *Id*. at Sch. 6.

[59] Aswath Damodaran, *Implied Equity Risk Premium Update*, DAMODARAN ONLINE, http://pages.stern.nyu.edu/~adamodar/. Dr. Damodaran estimates several ERPs using various assumptions.

the following figure illustrates that Ms. Bulkley's ERP estimate higher than other reasonable, objective estimates for the ERP.[60]

Figure 9:
Equity Risk Premium Comparison



When compared with other independent sources for the ERP, as well as my estimate, Ms. Bulkley's ERP estimate is clearly too high. In fact, it is more than 400 basis points above the average ERP from the other sources I relied on. This factor contributes to Ms. Bulkley's CAPM results being overstated.

2. Empirical CAPM

Q. Please summarize Ms. Bulkley's ECAPM application.

A. Ms. Bulkley's ECAPM is based on the premise that the standard CAPM underestimates the return required from low-beta securities, such as those of the utility proxy group.

[60] The ERP estimated by Dr. Damodaran is the highest of several ERP estimates under slightly differing assumptions.

Q. Do the results of Ms. Bulkley's ECAPM indicate a reasonable cost of equity estimate for PAWC?

A. No. The premise of Ms. Bulkley's ECAPM is that the standard CAPM underestimates the return required from low-beta securities. There are several problems with this concept. First, the Value Line betas both Ms. Bulkley and I used in the real CAPM have already been adjusted upward to account for the theory that low-beta stocks might have a tendency to be underestimated. Thus, there is no need to make an additional, upward adjustment to these betas. Second, there is empirical evidence suggesting that the type of beta-adjustment method used by Value Line actually overstates betas from consistently low-beta industries like utilities. According to this research, it is better to employ an adjustment method that adjusts raw betas toward an industry average, rather than the market average, which ultimately would result in betas that are lower than those published in Value Line. Finally (and most pertinently), Ms. Bulkley's ECAPM still suffers from the same overestimated ERP input discussed above.

VIII. RATE OF RETURN CONCLUSION

Q. Please summarize your analyses and conclusions regarding PAWC's cost of equity.

A. A utility's awarded ROE should be based on its cost of equity, which can be estimated using various financial models. In estimating PAWC's cost of equity, I performed a cost of equity analysis on a proxy group of utility companies using the two most widely used and widely-accepted financial models for calculating cost of equity in utility rate proceedings: the CAPM and DCF Model. I conducted two variations of both the CAPM and DCF Model. The results are shown in the figure below.

Figure 10:
Cost of Equity Model Summary

Model	Cost of Equity
Capital Asset Pricing Model	8.7%
DCF Model (Analyst Growth)	9.3%
DCF Model (Sustainable Growth)	6.8%
Model Average	8.3%
Recommended ROE	**8.7%**

Q. Please summarize the impact the authorized ROE has on the revenue requirement in this case.

A. PAWC's current authorized ROE is 9.45%, which was authorized less than two years ago. As discussed in my testimony, the ROE of 10.95% proposed by the Company is not supported by any market-based evidence. In other words, the financial models do not support a significant increase in the authorized ROE as proposed by the Company. In fact, these models support a notable decrease in the Company's authorized ROE. Although it is not my recommendation, if the Company were awarded a 9.45% ROE, it would reduce the Company's proposed rate increase to $17.3 million..

Q. Ms. Bulkley also suggests that her proposed ROE was influence by the performance of Company management. What is your response?

A. Although Ms. Bulkley did not make a specific adjustment for management performance, she states that she considered it when setting the overall range for her recommended

ROE.[61] The performance of company management should not be a factor when determining a fair authorized ROE for the Company. As discussed in my testimony, the authorized ROE should be based on the cost of equity. The cost of equity is not impacted by management performance, which is a firm-specific risk factor. In other words, investors do not expect an additional return for good managerial performance. If anything, above-average managerial performance for a particular company would have a decreasing effect on the cost of equity due to its risk reducing effect (though still primarily firm-specific). Regardless, the Commission should not consider managerial performance when setting a fair ROE in this case and rather focus on the results of the financial modeling.

Q. Please summarize your recommendation to the Commission regarding PAWC's authorized rate of return.

A. I am recommending an authorized ROE of 8.7% for PAWC.

Q. Please summarize your rate of return recommendation.

A. My recommendations are summarized in the following table.[62]

[61] Direct Testimony of Ann Bulkley, p. 64.

[62] *See also* Exhibit DJG-13.

Figure 11:
Awarded Rate of Return Recommendation

Water Operations			
Capital Component	Proposed Ratio	Cost Rate	Weighted Cost
Long-term Debt	43.7%	4.71%	2.06%
Common Equity	56.3%	8.70%	4.90%
Total	100.0%		6.96%

Wastewater Operations			
Capital Component	Proposed Ratio	Cost Rate	Weighted Cost
Long-term Debt	41.6%	4.71%	1.96%
WW-Specific LTD	6.88%	2.20%	0.15%
Common Equity	51.5%	8.70%	4.48%
Total	100.0%		6.59%

As shown in this figure, adopting my proposed ROE would result in a weighted average authorized rate of return of 6.96% for water operations and 6.59% for wastewater operations.

PART TWO: DEPRECIATION

IX. REGULATORY STANDARDS

Q. Please discuss the standard by which regulated utilities are allowed to recover depreciation expense.

A. In *Lindheimer v. Illinois Bell Telephone Co.*, the U.S. Supreme Court stated "depreciation is the loss, not restored by current maintenance, which is due to all the factors causing the ultimate retirement of the property. These factors embrace wear and tear, decay, inadequacy, and obsolescence."[63] The *Lindheimer* Court also recognized that the original cost of plant assets, rather than present value or some other measure, is the proper basis for calculating depreciation expense.[64] Moreover, the *Lindheimer* Court found:

> [T]he company has the burden of making a convincing showing that the amounts it has charged to operating expenses for depreciation have not been excessive. That burden is not sustained by proof that its general accounting system has been correct. The calculations are mathematical, but the predictions underlying them are essentially matters of opinion.[65]

Thus, the Commission must ultimately determine if PAWC has met its burden of proof by making a convincing showing that its proposed depreciation rates are not excessive.

---

[63] *Lindheimer v. Illinois Bell Tel. Co.*, 292 U.S. 151, 167 (1934).

[64] *Id*. (Referring to the straight-line method, the *Lindheimer* Court stated that "[a]ccording to the principle of this accounting practice, the loss is computed upon the actual cost of the property as entered upon the books, less the expected salvage, and the amount charged each year is one year's pro rata share of the total amount."). The original cost standard was reaffirmed by the Court in *Federal Power Commission v. Hope Natural Gas Co.*, 320 U.S. 591, 606 (1944). The *Hope* Court stated: "Moreover, this Court recognized in [*Lindheimer*], supra, the propriety of basing annual depreciation on cost. By such a procedure the utility is made whole and the integrity of its investment maintained. No more is required."

[65] *Id*. at 169.

Q. Please discuss how your proposed depreciation rates impact the Company's depreciation expense.

A. Similar to the Company's depreciation study, my testimony and exhibits presents proposed depreciation rates for each account included in the depreciation study. These depreciation rates were developed based on plant balances at three different dates (June 30th of 2025, 2026, and 2027). The depreciation rates are multiplied by the plant balances of each account to calculate the annual depreciation expense. Depreciation expense is different than the depreciation "reserve," which is a term referring to the accumulated depreciation balance. Under the remaining life depreciation method, the reserve acts as a deduction from plant in order to calculate the future dollars to be recovered for each account.

A. Depreciation System

Q. Please discuss the definition and general purpose of a depreciation system, as well as the specific depreciation system you employed for this project.

A. The legal standards set forth above do not mandate a specific procedure for conducting depreciation analysis. These standards, however, direct that analysts use a system for estimating depreciation rates that will result in the "systematic and rational" allocation of capital recovery for the utility. Over the years, analysts have developed "depreciation systems" designed to analyze grouped property in accordance with this standard. A depreciation system may be defined by several primary parameters, including: 1) a method of allocation; 2) a procedure for applying the method of allocation; 3) a technique of applying the depreciation rate; and 4) a model for analyzing the characteristics of vintage

property groups.[66] In this case, I used the straight-line method, the average life group procedure, the remaining life technique, and the broad group model.[67]

Q. Did both Mr. Spanos and you use the same depreciation system?

A. No. Pertinently, Mr. Spanos used the Equal Life Group ("ELG") method instead of the average life group ("ALG") method. I discuss the differences between these methods in more detail below.

B. Average Life vs Equal Life Method

Q. Explain the primary difference between the ALG and ELG methods.

A. In the ALG method, a constant accrual rate based on the average life of all property in the group is applied to the surviving property.[68] In the ELG method, property is divided into subgroups, called vintages, that each have a common life. Pertinently, the ELG method results in higher depreciation rates in the early years of a vintage's life. This fact is confirmed by authoritative depreciation literature. According to Wolf:

> When contrasted with the average life procedure, the equal life group procedure results in annual accruals that are higher during the early years and lower in the later years.[69]

The NARUC Public Utility Depreciation Practices also makes the same conclusion about the equal life procedure:

---

[66] *See* Wolf & W. Chester Fitch, Depreciation Systems 70, 140 (Iowa State University Press 1994).

[67] *See* Appendix C for further discussion. The depreciation system will ultimately be used to develop depreciation rates. The depreciation rate is applied to the plant balance for each account to calculate the annual depreciation expense changed to customers. This is a different concept than the accumulated depreciation balance, or depreciation "reserve." The depreciation reserve acts as a reduction to rate base.

[68] *Id*. at 74-75.

[69] *Id*. at 93 (emphasis added).

> [T]he ELG method results in annual accruals that are higher during the early years of a vintage's life, thereby causing an increase in depreciation expense and revenue requirements during these years.[70]

In contrast, use of the average life results in the same depreciation rate applied to each age interval.

Q. Please summarize your recommendation regarding the depreciation system that should be used to calculate PAWC's depreciation rates.

A. As I will demonstrate in my testimony, the ALG method results in a fairer application of depreciation rates compared to the ELG method given the realities of ratemaking proceedings. Mr. Spanos's decision to use the ELG method unnecessarily increases the *annual* depreciation accrual charged to customers by approximately $1.4 million. The depreciation "accrual" is similar to the concept of depreciation "expense." I use the term "accrual" to generally describe the amount of dollars resulting from applying a depreciation rate to historical plant balances as of the depreciation study date. The depreciation expense is the annual accrual amount that will actually be changed to customers, and may be based on plant balances at a different date. In other words, even if no other adjustments are made to the depreciation study except the adoption of the majority-view ALG method, it would result in a decrease of $1.4 million to PAWC's proposed annual depreciation accrual. The Commission should adopt my proposed depreciation rates, which were calculated using the ALG method.

[70] National Association of Regulatory Utility Commissioners, *Public Utility Depreciation Practices* 176 (NARUC 1996) (emphasis added).

Q. Based on your experience in other regulatory jurisdictions and knowledge of the industry, which method is more commonly used?

A. In my experience, the ALG method is used by analysts and adopted by regulators in the vast majority of jurisdiction and in the vast majority of cases.

Q. Does Mr. Spanos typically use the ALG method in depreciation studies you have reviewed?

A. In the vast majority of cases in which I have reviewed Mr. Spanos's depreciation studies, he uses the ALG method.

Q. In the pending application of PPL Electric Utilities Corporation before the Commission (Docket No. R-2025-3057164), is Mr. Spanos proposing depreciation rates based on the ALG method?

A. Yes, Mr. Spanos proposed ALG depreciation rates in PPL's pending application. Since it is unlikely any intervening party will oppose the ALG method in that case, the Commission will likely be adopting ALG depreciation rates in the PPL case.

Q. Would the application of ELG depreciation rates in this case result in intergenerational inequity to current customers?

A. Yes, in my opinion it would. Essentially, under the ELG method, current customers would pay a disproportionated higher share of costs relative to future customers. Proponents of the ELG method often argue that the ELG method is better for customers in the long run because the higher depreciation rates resulting from the ELG method have a decreasing effect on rate base. Although it is technically correct that higher depreciation expense in the present would, all else held constant, result in lower depreciation rates in the future, that does not resolve the issue of intergenerational inequity for current customers. If paying down rate base was the ultimate goal, then current customers could pay off the utility's entire undepreciated plant balance now, and future customers would have much lower rates for many years. That is mathematically accurate, but clearly inequitable. The practical

effect of ELG as contrasted with other methods is to accelerate the recovery of capital at the expense of current customers.

Q. In order to be applied correctly, would ELG depreciation rates need to be adjusted every year?

A. Yes. Unlike the ALG method, depreciation rates calculated under the ELG method would need to be updated every year in order to be technically accurate. This concept is highlighted further in the examples below.

Q. Have you successfully argued for a change from the ELG method to ALG method in another jurisdiction?

A. Yes. In Duke Energy Indiana's ("DEI") 2020 rate case, the company proposed ELG depreciation rates, which had been adopted by the Indiana commission in previous cases. In that case, I and other parties argued that the ALG method should be used. The Indiana Commission found as follows:

> First, with respect to the question of whether the ELG or ALG method should be used, we find the evidence presented by OUCC witness Mr. Garrett and Industrial Group witness Mr. Andrews persuasive, as both witnesses showed that the ELG method results in unreasonably high depreciation rates. ALG depreciation rates result in systematical and rational cost recovery with near term customer rate relief and full cost recovery of utility investments. While we have determined in the past that the ELG methodology was appropriate and acknowledge the weight given to precedent in many prior decisions, we always evaluate each case as it comes before us and do not need to approve the same methodology based on prior decisions, especially in light of a changed landscape. The use of ELG in a higher than average investment cycle has the effect of unnecessarily increasing the near term depreciation expense as compared to the use of ALG.[71]

In the DEI case, the Commission correctly noted that the ELG method can result in unreasonably high depreciation rates. In order for the ELG method to be properly applied,

[71] Cause No. 45253, Order of the Commission, p. 90, (June 29, 2020).

a utility would need to revise depreciation each year. When a utility has made substantial, recent capital investments, depreciation expense calculated under the ELG method will always be higher than the expense calculated under the ALG method. The larger the amount of the investments, the larger the discrepancy will be between the two procedures.

Q. Are you aware of other Public Utility Commissions that have rejected the use of ELG?

A. Yes. The Kentucky Public Service Commission ("Kentucky PSC") found that the ELG procedure front-loads depreciation expense in earlier years and decreases it in the later years of an asset's depreciation life, creating a mismatch of revenues and expenses. The Kentucky PSC states reasoning for rejecting the ELG is as follows:

> Duke Kentucky proposes, as part of developing its depreciation rates, the continued use of the ELG procedure. The Attorney General recommends the Commission adopt the ALG procedure in developing Duke Kentucky's depreciation rates. The Attorney General contends that the ALG methodology is the predominant method that is used in the electric industry for developing depreciation rates. The Attorney General contends that, under the ELG methodology, the capital recovery periods are accelerated and shortened and, thus, the depreciation rates are greater than if the ALG procedure was used. The Attorney General argues that the ALG procedure is as accurate as the ELG procedure and the ALG procedure smooths the data so that the depreciation rates for the group of assets tend to remain constant. Use of the ALG procedure will result in a decrease in Duke Kentucky's depreciation expense of $6.920 million.
>
> Duke Kentucky requested an increase in depreciation expense of $6.920 million, based on its request to utilize the ELG procedure for computing depreciation rates. As was discussed in the rate base section of this Order, this Commission has found that the ELG procedure does not accurately match revenues and expenses, is front-loaded, and Duke Kentucky is the only Kentucky based utility that utilizes the ELG procedure for computing depreciation rates.
>
> Regulatory accounting requires the proper matching of revenues and expense in order to produce fair, just and reasonable rates. The Commission finds Duke Kentucky's proposed ELG procedure does not meet that criteria

and that Duke Kentucky's depreciation expense should be reduced by $6.920 million.[72]

Q. Please provide an example of how the ELG method results in higher depreciation rates in earlier years relative to the ALG method.

A. For the following illustration, assume a group of property containing two units, one with an original cost of $4,000 and a 4-year life and the second with an original cost of $6,000 and an 8-year life.[73] Thus, the average life of this group is 6.4 years.[74] Under the ALG method, the depreciation rate is 15.625% per year (1/6.4 = 15.625%). The following table illustrates this example.

Figure 1:
ALG Procedure

Year	Balance	Retired	Rate	Annual Accrual	Accum. Deprec.
1974	10000		15.625%	1563	0
1975	10000		15.625%	1563	1563
1976	10000		15.625%	1563	3125
1977	10000	4000	15.625%	1563	4688
1978	6000		15.625%	938	2250
1979	6000		15.625%	938	3188
1980	6000		15.625%	938	4125
1981	6000	6000	15.625%	938	5063
1982	0				0

As shown in the annual accrual column above, the full $10,000 is depreciated after eight years. Now, considering the same assumptions presented above, the following tables illustrate the same scenario except that the rate is calculated under the ELG method.

[72] In the Matter of: Electronic Application of Duke Energy Kentucky, Inc., Kentucky PSC, Order at pages 26 27, Case No. 2017-00321, (https://psc.ky.gov/pscscf/2017%20Cases/2017-00321//20180413_PSC_ORDER.pdf).

[73] *See* Wolf & W. Chester Fitch, Depreciation Systems 82 (Iowa State University Press 1994).

[74] AL = [($4,000 x 4) + ($6,000 x 8)] / $10,000 = 6.4 years.

Figure 2:
ELG Procedure

Year	Balance	Retired	Rate	Annual Accrual	Accum. Deprec.
1974	10000		17.50%	1750	0
1975	10000		17.50%	1750	1750
1976	10000		17.50%	1750	3500
1977	10000	4000	17.50%	1750	5250
1978	6000		12.50%	750	3000
1979	6000		12.50%	750	3750
1980	6000		12.50%	750	4500
1981	6000	6000	12.50%	750	5250
1982	0				0

As with the ALG example presented above, the full $10,000 investment is still fully depreciated after eight years. However, there are higher rates and accrual amounts during the earlier years. The reason there is a 17.5% depreciation rate instead of a 15.625% depreciation rate in the early years is because the two units in this group are treated separately under the ELG method. The following table shows how the rates in this example are calculated.

Figure 3:
ELG Rate Development

				Annual Accrual	
Group	Group Amount	Group Life	Group Rate	1974-77	1978-81
A	4000	4	25.00%	1000	
B	6000	8	12.50%	750	750
Annual accruals				1750	750
Balance during interval				10000	6000
Annual accrual rate %				17.50%	12.50%

This example is simplified in an attempt to explain the complexities of the ELG method. In this example, the higher rate of 17.5% stayed the same for four years because there are only two units in this simple example, and the rate drops to 12.5% after the first unit retires.

X. SERVICE LIFE ANALYSIS

Q. Describe the methodology used to estimate the service lives of grouped depreciable assets.

A. The process used to study industrial property retirement is rooted in the actuarial process used to study human mortality. Just as actuarial analysts study historical human mortality data to predict how long a group of people will live, depreciation analysts study historical plant data to estimate the average lives of property groups. The most common actuarial method used by depreciation analysts is called the "retirement rate method." In the retirement rate method, original property data, including additions, retirements, transfers, and other transactions, are organized by vintage and transaction year.[75] The retirement rate method is ultimately used to develop an "observed life table," ("OLT") which shows the percentage of property surviving at each age interval. This pattern of property retirement is described as a "survivor curve." The survivor curve derived from the observed life table, however, must be fitted and smoothed with a complete curve in order to determine the ultimate average life of the group.[76] The most widely used survivor curves for this curve

[75] The "vintage" year refers to the year that a group of property was placed in service (aka "placement" year). The "transaction" year refers to the accounting year in which a property transaction occurred, such as an addition, retirement, or transfer (aka "experience" year).

[76] *See* Appendix C for a more detailed discussion of the actuarial analysis used to determine the average lives of grouped industrial property.

fitting process were developed at Iowa State University in the early 1900s and are commonly known as the "Iowa curves."[77] A more detailed explanation of how the Iowa curves are used in the actuarial analysis of depreciable property is set forth in Appendix C.

Q. Describe how you analyzed PAWC's historical retirement data in order to determine the most reasonable Iowa curve to apply to each account.

A. PAWC's aged property data is used to create OLTs for each account. The data points on the OLT can be plotted to form a curve (the "OLT curve"). The OLT curve is not a theoretical curve; rather, it is actual observed data from PAWC's records that indicate the rate of retirement for each property group. An OLT curve by itself, however, is rarely a smooth curve, and is often not a "complete" curve (i.e., it does not end at zero percent surviving). In order to calculate average life (the area under a curve), a complete survivor curve is required. The Iowa curves are empirically derived curves based on the extensive studies of the actual mortality patterns of many different types of industrial property. The curve-fitting process involves selecting the best Iowa curve to fit the OLT curve. This can be accomplished through a combination of visual and mathematical curve-fitting techniques, as well as professional judgment.

Q. Is mathematical fitting an important part of the curve-fitting process?

A. Yes. Mathematical curve fitting promotes objective, unbiased results. While mathematical curve-fitting is important, it may not always yield the optimum result. Simply determining which Iowa curve best fits an OLT curve ignores professional judgment that may be needed for specific situations. For example, if there is insufficient historical data in a particular

[77] *See* Appendix B for a more detailed discussion of the Iowa curves.

account and the OLT curve derived from that data is relatively short and flat, the mathematically "best" curve may be one with a very long average life. However, when there is sufficient data available, mathematical curve fitting can be used as part of an objective service life analysis.

Q. Should every portion of the OLT curve be given equal weight?

A. Not necessarily. Many analysts have observed that the points towards the end of OLT curves may often have less analytical value than other portions of the curve. Indeed, "[p]oints at the end of the curve are often based on fewer exposures and may be given less weight than points based on larger samples. The weight placed on those points will depend on the size of the exposures."[78] In accordance with this standard, an analyst may decide to truncate the tail end of the OLT curve at a certain percent of initial exposures, such as one percent. Using this approach puts greater emphasis on the most valuable portions of the curve. For my analysis in this case, I not only considered the entirety of the OLT curve, but also conducted further analyses that involved fitting Iowa curves to the most significant part of the OLT curve for certain accounts.

Q. Are you recommending service life adjustments in this case based on the following analyses?

A. No. In this case, I believe it is more important for the Commission to focus on the ALG vs ELG issue and limit the accelerated form of cost recovery that would unfairly burden customers under the ELG method proposed by Mr. Spanos.

[78] Wolf & W. Chester Fitch, Depreciation Systems 46 (Iowa State University Press 1994).

Q. What is your recommendation to the Commission regarding PAWC's depreciation rates.

A. I recommend the Commission adopt the depreciation rates presented in my exhibits, which were calculated using the same service life parameters proposed in PAWC's depreciation study but using the ALG method instead of the ELG method.

Q. Does this conclude your direct testimony?

A. Yes.

APPENDIX A:

DISCOUNTED CASH FLOW MODEL THEORY

The Discounted Cash Flow ("DCF") Model is based on a fundamental financial model called the "dividend discount model," which maintains that the value of a security is equal to the present value of the future cash flows it generates. Cash flows from common stock are paid to investors in the form of dividends. There are several variations of the DCF Model. In its most general form, the DCF Model is expressed as follows:[1]

Equation 1:
General Discounted Cash Flow Model

$$P_0 = \frac{D_1}{(1+k)} + \frac{D_2}{(1+k)^2} + \cdots + \frac{D_n}{(1+k)^n}$$

where: P_0 = *current stock price*
$D_1 \ldots D_n$ = *expected future dividends*
k = *discount rate / required return*

The General DCF Model would require an estimation of an infinite stream of dividends. Since this would be impractical, analysts use more feasible variations of the General DCF Model, which are discussed further below.

The DCF Models rely on the following four assumptions:

1. Investors evaluate common stocks in the classical valuation framework; that is, they trade securities rationally at prices reflecting their perceptions of value;
2. Investors discount the expected cash flows at the same rate (K) in every future period;

[1] *See* Zvi Bodie, Alex Kane & Alan J. Marcus, *Essentials of Investments* 410 (9th ed., McGraw-Hill/Irwin 2013).

3. The K obtained from the DCF equation corresponds to that specific stream of future cash flows alone; and

4. Dividends, rather than earnings, constitute the source of value.

The General DCF can be rearranged to make it more practical for estimating the cost of equity. Regulators typically rely on some variation of the Constant Growth DCF Model, which is expressed as follows:

Equation 2:
Constant Growth Discounted Cash Flow Model

$$K = \frac{D_1}{P_0} + g$$

where: K = *discount rate / required return on equity*
D_1 = *expected dividend per share one year from now*
P_0 = *current stock price*
g = *expected growth rate of future dividends*

Unlike the General DCF Model, the Constant Growth DCF Model solves directly for the required return (K). In addition, by assuming that dividends grow at a constant rate, the dividend stream from the General DCF Model may be essentially substituted with a term representing the expected constant growth rate of future dividends (g). The Constant Growth DCF Model may be considered in two parts. The first part is the dividend yield (D_1/P_0), and the second part is the growth rate (g). In other words, the required return in the DCF Model is equivalent to the dividend yield plus the growth rate.

In addition to the four assumptions listed above, the Constant Growth DCF Model relies on four additional assumptions as follows:[2]

[2] *Id.* at 254-56.

1. The discount rate (K) must exceed the growth rate (g);
2. The dividend growth rate (g) is constant in every year to infinity;
3. Investors require the same return (K) in every year; and
4. There is no external financing; that is, growth is provided only by the retention of earnings.

Because the growth rate in this model is assumed to be constant, it is important not to use growth rates that are unreasonably high. In fact, the constant growth rate estimate for a regulated utility with a defined service territory should not exceed the growth rate for the economy in which it operates.

APPENDIX B:

CAPITAL ASSET PRICING MODEL THEORY

The Capital Asset Pricing Model ("CAPM") is a market-based model founded on the principle that investors demand higher returns for incurring additional risk.[3] The CAPM estimates this required return. The CAPM relies on the following assumptions:

1. Investors are rational, risk-adverse, and strive to maximize profit and terminal wealth;
2. Investors make choices based on risk and return. Return is measured by the mean returns expected from a portfolio of assets; risk is measured by the variance of these portfolio returns;
3. Investors have homogenous expectations of risk and return;
4. Investors have identical time horizons;
5. Information is freely and simultaneously available to investors.
6. There is a risk-free asset, and investors can borrow and lend unlimited amounts at the risk-free rate;
7. There are no taxes, transaction costs, restrictions on selling short, or other market imperfections; and,
8. Total asset quality is fixed, and all assets are marketable and divisible.[4]

[3] William F. Sharpe, *A Simplified Model for Portfolio Analysis* 277-93 (Management Science IX 1963); *see also* John R. Graham, Scott B. Smart & William L. Megginson, *Corporate Finance: Linking Theory to What Companies Do* 208 (3rd ed., South Western Cengage Learning 2010).

[4] *Id*.

While some of these assumptions may appear to be restrictive, they do not outweigh the inherent value of the model. The CAPM has been widely used by firms, analysts, and regulators for decades to estimate the cost of equity capital.

The basic CAPM equation is expressed as follows:

Equation 3:
Capital Asset Pricing Model

$$K = R_F + \beta_i(R_M - R_F)$$

where: K = *required return*
R_F = *risk-free rate*
β = *beta coefficient of asset i*
R_M = *required return on the overall market*

There are essentially three terms within the CAPM equation that are required to calculate the required return (K): (1) the risk-free rate (R_F); (2) the beta coefficient (β); and (3) the equity risk premium ($R_M - R_F$), which is the required return on the overall market less the risk-free rate.

Raw Beta Calculations and Adjustments

A stock's beta equals the covariance of the asset's returns with the returns on a market portfolio, divided by the portfolio's variance, as expressed in the following formula:[5]

Equation 4:
Beta

$$\beta_i = \frac{\sigma_{im}}{\sigma_m^2}$$

where: β_i = *beta of asset i*
σ_{im} = *covariance of asset i returns with market portfolio returns*
σ^2_m = *variance of market portfolio*

[5] John R. Graham, Scott B. Smart & William L. Megginson, *Corporate Finance: Linking Theory to What Companies Do* 180-81 (3rd ed., South Western Cengage Learning 2010).

Betas that are published by various research firms are typically calculated through a regression analysis that considers the movements in price of an individual stock and movements in the price of the overall market portfolio. The betas produced by this regression analysis are considered "raw" betas. There is empirical evidence that raw betas should be adjusted to account for beta's natural tendency to revert to an underlying mean.[6] Some analysts use an adjustment method proposed by Blume, which adjusts raw betas toward the market mean of one.[7] While the Blume adjustment method is popular due to its simplicity, it is arguably arbitrary, and some would say not useful at all. According to Dr. Damodaran: "While we agree with the notion that betas move toward 1.0 over time, the [Blume adjustment] strikes us as arbitrary and not particularly useful."[8] The Blume adjustment method is especially arbitrary when applied to industries with consistently low betas, such as the utility industry. For industries with consistently low betas, it is better to employ an adjustment method that adjusts raw betas toward an industry average, rather than the market average. Vasicek proposed such a method, which is preferable to the Blume adjustment method because it allows raw betas to be adjusted toward an industry average, and also accounts for the statistical accuracy of the raw beta calculation.[9] In other words, "[t]he Vasicek adjustment seeks to overcome one weakness of the Blume model by not applying the same adjustment to every security; rather, a security-specific adjustment is made depending on the

---

[6] *See* Michael J. Gombola and Douglas R. Kahl, *Time-Series Processes of Utility Betas: Implications for Forecasting Systematic Risk* 84-92 (Financial Management Autumn 1990).

[7] See Marshall Blume, *On the Assessment of Risk*, Vol. 26, No. 1, The Journal of Finance 1 (1971).

[8] *See* Aswath Damodaran, *Investment Valuation: Tools and Techniques for Determining the Value of Any Asset* 187 (3rd ed., John Wiley & Sons, Inc. 2012).

[9] Oldrich A. Vasicek, *A Note on Using Cross-Sectional Information in Bayesian Estimation of Security Betas* 1233-1239 (Journal of Finance, Vol. 28, No. 5, December 1973).

statistical quality of the regression."[10] The Vasicek beta adjustment equation is expressed as follows:

Equation 5:
Vasicek Beta Adjustment

$$\beta_{i1} = \frac{\sigma^2_{\beta i0}}{\sigma^2_{\beta 0} + \sigma^2_{\beta_{i0}}}\beta_0 + \frac{\sigma^2_{\beta 0}}{\sigma^2_{\beta 0} + \sigma^2_{\beta_{i0}}}\beta_{i0}$$

where: β_{i1} = *Vasicek adjusted beta for security i*
β_{i0} = *historical beta for security i*
β_0 = *beta of industry or proxy group*
$\sigma^2_{\beta 0}$ = *variance of betas in the industry or proxy group*
$\sigma^2_{\beta i0}$ = *square of standard error of the historical beta for security i*

The Vasicek beta adjustment is an improvement on the Blume model because the Vasicek model does not apply the same adjustment to every security. A higher standard error produced by the regression analysis indicates a lower statistical significance of the beta estimate. Thus, a beta with a high standard error should receive a greater adjustment than a beta with a low standard error. As stated in Ibbotson:

[10] 2012 Ibbotson Stocks, Bonds, Bills, and Inflation Valuation Yearbook 77-78 (Morningstar 2012).

> While the Vasicek formula looks intimidating, it is really quite simple. The adjusted beta for a company is a weighted average of the company's historical beta and the beta of the market, industry, or peer group. How much weight is given to the company and historical beta depends on the statistical significance of the company beta statistic. If a company beta has a low standard error, then it will have a higher weighting in the Vasicek formula. If a company beta has a high standard error, then it will have lower weighting in the Vasicek formula. An advantage of this adjustment methodology is that it does not force an adjustment to the market as a whole. Instead, the adjustment can be toward an industry or some other peer group. *This is most useful in looking at companies in industries that on average have high or low betas*.[11]

Thus, the Vasicek adjustment method is statistically more accurate, and is the preferred method to use when analyzing companies in an industry that has inherently low betas, such as the utility industry. The Vasicek method was also confirmed by Gombola, who conducted a study specifically related to utility companies. Gombola concluded that "[t]he strong evidence of auto-regressive tendencies in *utility* betas lends support to the application of adjustment procedures such as the . . . adjustment procedure presented by Vasicek."[12] Gombola also concluded that adjusting raw betas toward the market mean of 1.0 is *too high*, and that "[i]nstead, they should be adjusted toward a value that is less than one."[13] In conducting the Vasicek adjustment on betas in previous

[11] *Id*. at 78 (emphasis added).

[12] Michael J. Gombola and Douglas R. Kahl, *Time-Series Processes of Utility Betas: Implications for Forecasting Systematic Risk* 92 (Financial Management Autumn 1990) (emphasis added).

[13] *Id*. at 91-92.

cases, it reveals that utility betas are even lower than those published by Value Line.[14] Gombola's findings are particular important here, because his study was conducted specifically on utility companies. This evidence indicates that using Value Line's betas in a CAPM cost of equity estimate for a utility company may lead to overestimated results. Regardless, adjusting betas to a level that is *higher* than Value Line's betas is not reasonable, and it would produce CAPM cost of equity results that are too high.

[14] *See e.g.* Responsive Testimony of David J. Garrett, filed March 21, 2016 in Cause No. PUD 201500273 before the Corporation Commission of Oklahoma (the Company's 2015 rate case), at pp. 56 – 59.

APPENDIX C:

THE DEPRECIATION SYSTEM

A depreciation accounting system may be thought of as a dynamic system in which estimates of life and salvage are inputs to the system, and the accumulated depreciation account is a measure of the state of the system at any given time.[15] The primary objective of the depreciation system is the timely recovery of capital. The process for calculating the annual accruals is determined by the factors required to define the system. A depreciation system should be defined by four primary factors: 1) a *method* of allocation; 2) a *procedure* for applying the method of allocation to a group of property; 3) a *technique* for applying the depreciation rate; and 4) a *model* for analyzing the characteristics of vintage groups comprising a continuous property group.[16] The figure below illustrates the basic concept of a depreciation system and includes some of the available parameters.[17]

There are hundreds of potential combinations of methods, procedures, techniques, and models, but in practice, analysts use only a few combinations. Ultimately, the system selected must result in the systematic and rational allocation of capital recovery for the utility. Each of the four primary factors defining the parameters of a depreciation system is discussed further below.

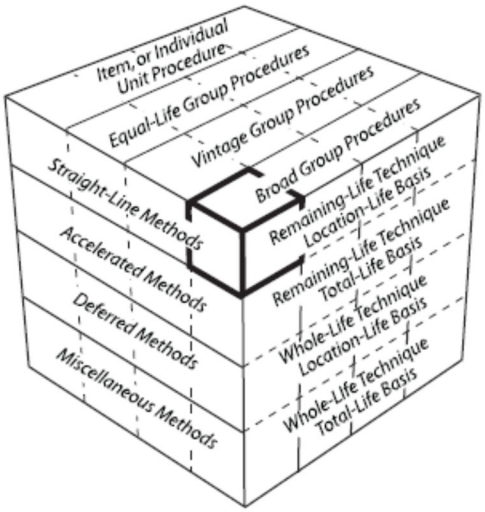
---

[15] *See* Frank K. Wolf & W. Chester Fitch, *Depreciation Systems* 69-70 (Iowa State University Press 1994).

[16] *Id.* at 70, 139-40.

[17] Edison Electric Institute, *Introduction to Depreciation* (inside cover) (EEI April 2013). Some definitions of the terms shown in this diagram are not consistent among depreciation practitioners and literature due to the fact that depreciation analysis is a relatively small and fragmented field. This diagram simply illustrates the some of the available parameters of a depreciation system.

Figure 1:
The Depreciation System Cube



1. Allocation Methods

The "method" refers to the pattern of depreciation in relation to the accounting periods. The method most commonly used in the regulatory context is the "straight-line method" — a type of age-life method in which the depreciable cost of plant is charged in equal amounts to each accounting period over the service life of plant.[18] Because group depreciation rates and plant balances often change, the amount of the annual accrual rarely remains the same, even when the straight-line method is employed.[19] The basic formula for the straight-line method is as follows:[20]

Equation 6:
Straight-Line Accrual

$$Annual\ Accrual = \frac{Gross\ Plant - Net\ Salavage}{Service\ Life}$$

[18] National Association of Regulatory Utility Commissioners, *Public Utility Depreciation Practices* 56 (NARUC 1996).

[19] *Id*.

[20] *Id*.

Gross plant is a known amount from the utility's records, while both net salvage and service life must be estimated in order to calculate the annual accrual. The straight-line method differs from accelerated methods of recovery, such as the "sum-of-the-years-digits" method and the "declining balance" method. Accelerated methods are primarily used for tax purposes and are rarely used in the regulatory context for determining annual accruals.[21] In practice, the annual accrual is expressed as a rate which is applied to the original cost of plant in order to determine the annual accrual in dollars. The formula for determining the straight-line rate is as follows:[22]

Equation 7:
Straight-Line Rate

$$Depreciation\ Rate\ \% = \frac{100 - Net\ Salvage\ \%}{Service\ Life}$$

2. Grouping Procedures

The "procedure" refers to the way the allocation method is applied through subdividing the total property into groups.[23] While single units may be analyzed for depreciation, a group plan of depreciation is particularly adaptable to utility property. Employing a grouping procedure allows for a composite application of depreciation rates to groups of similar property, rather than excessively conducting calculations for each unit. Whereas an individual unit of property has a single life, a group of property displays a dispersion of lives and the life characteristics of the group must be described statistically.[24] When analyzing mass property categories, it is important that

[21] *Id*. at 57.

[22] *Id*. at 56.

[23] Wolf *supra* n. 15, at 74-75.

[24] *Id*. at 74.

each group contains homogenous units of plant that are used in the same general manner throughout the plant and operated under the same general conditions.[25]

The "average life" and "equal life" grouping procedures are the two most common. In the average life procedure, a constant annual accrual rate based on the average life of all property in the group is applied to the surviving property. While property having shorter lives than the group average will not be fully depreciated, and likewise, property having longer lives than the group average will be over-depreciated, the ultimate result is that the group will be fully depreciated by the time of the final retirement.[26] Thus, the average life procedure treats each unit as though its life is equal to the average life of the group. In contrast, the equal life procedure treats each unit in the group as though its life was known.[27] Under the equal life procedure the property is divided into subgroups that each has a common life.[28]

3. Application Techniques

The third factor of a depreciation system is the "technique" for applying the depreciation rate. There are two commonly used techniques: "whole life" and "remaining life." The whole life technique applies the depreciation rate on the estimated average service life of a group, while the remaining life technique seeks to recover undepreciated costs over the remaining life of the plant.[29]

In choosing the application technique, consideration should be given to the proper level of the accumulated depreciation account. Depreciation accrual rates are calculated using estimates of service life and salvage. Periodically these estimates must be revised due to changing

[25] NARUC *supra* n. 18, at 61-62.

[26] *See* Wolf *supr*a n. 15, at 74-75.

[27] *Id*. at 75.

[28] *Id*.

[29] NARUC *supra* n. 18, at 63-64.

conditions, which cause the accumulated depreciation account to be higher or lower than necessary. Unless some corrective action is taken, the annual accruals will not equal the original cost of the plant at the time of final retirement.[30] Analysts can calculate the level of imbalance in the accumulated depreciation account by determining the "calculated accumulated depreciation," (a.k.a. "theoretical reserve" and referred to in these appendices as "CAD"). The CAD is the calculated balance that would be in the accumulated depreciation account at a point in time using *current* depreciation parameters.[31] An imbalance exists when the actual accumulated depreciation account does not equal the CAD. The choice of application technique will affect how the imbalance is dealt with.

Use of the whole life technique requires that an adjustment be made to accumulated depreciation after calculation of the CAD. The adjustment can be made in a lump sum or over a period of time. With use of the remaining life technique, however, adjustments to accumulated depreciation are amortized over the remaining life of the property and are automatically included in the annual accrual.[32] This is one reason that the remaining life technique is popular among practitioners and regulators. The basic formula for the remaining life technique is as follows:[33]

---

[30] Wolf *supra* n. 15, at 83.

[31] NARUC *supra* n. 18, at 325.

[32] NARUC *supra* n. 18, at 65 ("The desirability of using the remaining life technique is that any necessary adjustments of [accumulated depreciation] . . . are accrued automatically over the remaining life of the property. Once commenced, adjustments to the depreciation reserve, outside of those inherent in the remaining life rate would require regulatory approval.").

[33] *Id*. at 64.

Equation 8:
Remaining Life Accrual

$$Annual\ Accrual = \frac{Gross\ Plant - Accumulated\ Depreciation - Net\ Salvage}{Average\ Remaining\ Life}$$

The remaining life accrual formula is similar to the basic straight-line accrual formula above with two notable exceptions. First, the numerator has an additional factor in the remaining life formula: the accumulated depreciation. Second, the denominator is "average remaining life" instead of "average life." Essentially, the future accrual of plant (gross plant less accumulated depreciation) is allocated over the remaining life of plant. Thus, the adjustment to accumulated depreciation is "automatic" in the sense that it is built into the remaining life calculation.[34]

4. Analysis Model

The fourth parameter of a depreciation system, the "model," relates to the way of viewing the life and salvage characteristics of the vintage groups that have been combined to form a continuous property group for depreciation purposes.[35] A continuous property group is created when vintage groups are combined to form a common group. Over time, the characteristics of the property may change, but the continuous property group will continue. The two analysis models used among practitioners, the "broad group" and the "vintage group," are two ways of viewing the life and salvage characteristics of the vintage groups that have been combined to from a continuous property group.

The broad group model views the continuous property group as a collection of vintage groups that each has the same life and salvage characteristics. Thus, a single survivor curve and a

[34] Wolf *supra* n. 15, at 178.

[35] *See* Wolf *supra* n. 15, at 139 (I added the term "model" to distinguish this fourth depreciation system parameter from the other three parameters).

single salvage schedule are chosen to describe all the vintages in the continuous property group. In contrast, the vintage group model views the continuous property group as a collection of vintage groups that may have different life and salvage characteristics. Typically, there is not a significant difference between vintage group and broad group results unless vintages within the applicable property group experienced dramatically different retirement levels than anticipated in the overall estimated life for the group. For this reason, many analysts utilize the broad group procedure because it is more efficient.

APPENDIX D:

IOWA CURVES

Early work in the analysis of the service life of industrial property was based on models that described the life characteristics of human populations.[36] This explains why the word "mortality" is often used in the context of depreciation analysis. In fact, a group of property installed during the same accounting period is analogous to a group of humans born during the same calendar year. Each period the group will incur a certain fraction of deaths / retirements until there are no survivors. Describing this pattern of mortality is part of actuarial analysis and is regularly used by insurance companies to determine life insurance premiums. The pattern of mortality may be described by several mathematical functions, particularly the survivor curve and frequency curve. Each curve may be derived from the other so that if one curve is known, the other may be obtained. A survivor curve is a graph of the percent of units remaining in service expressed as a function of age.[37] A frequency curve is a graph of the frequency of retirements as a function of age. Several types of survivor and frequency curves are illustrated in the figures below.

1. Development

The survivor curves used by analysts today were developed over several decades from extensive analysis of utility and industrial property. In 1931 Edwin Kurtz and Robley Winfrey used extensive data from a range of 65 industrial property groups to create survivor curves representing the life characteristics of each group of property.[38] They generalized the 65 curves

[36] Wolf *supra* n. 15, at 276.

[37] *Id*. at 23.

[38] *Id*. at 34.

into 13 survivor curve types and published their results in *Bulletin 103: Life Characteristics of Physical Property*. The 13 type curves were designed to be used as valuable aids in forecasting probable future service lives of industrial property. Over the next few years, Winfrey continued gathering additional data, particularly from public utility property, and expanded the examined property groups from 65 to 176.[39] This resulted in 5 additional survivor curve types for a total of 18 curves. In 1935, Winfrey published *Bulletin 125: Statistical Analysis of Industrial Property Retirements*. According to Winfrey, "[t]he 18 type curves are expected to represent quite well all survivor curves commonly encountered in utility and industrial practices."[40] These curves are known as the "Iowa curves" and are used extensively in depreciation analysis in order to obtain the average service lives of property groups. (Use of Iowa curves in actuarial analysis is further discussed in Exhibit DJG-23, Appendix E.)

In 1942, Winfrey published *Bulletin 155: Depreciation of Group Properties*. In Bulletin 155, Winfrey made some slight revisions to a few of the 18 curve types, and published the equations, tables of the percent surviving, and probable life of each curve at five-percent intervals.[41] Rather than using the original formulas, analysts typically rely on the published tables containing the percentages surviving. This is because absent knowledge of the integration technique applied to each age interval, it is not possible to recreate the exact original published table values. In the 1970s, John Russo collected data from over 2,000 property accounts reflecting

---

[39] *Id*.

[40] Robley Winfrey, *Bulletin 125: Statistical Analyses of Industrial Property Retirements* 85, Vol. XXXIV, No. 23 (Iowa State College of Agriculture and Mechanic Arts 1935).

[41] Robley Winfrey, Bulletin 155: Depreciation of Group Properties 121-28, Vol XLI, No. 1 (The Iowa State College Bulletin 1942); see also Wolf supra n. 15, at 305-38 (publishing the percent surviving for each Iowa curve, including "O" type curve, at one percent intervals).

observations during the period 1965 – 1975 as part of his Ph.D. dissertation at Iowa State. Russo essentially repeated Winfrey's data collection, testing, and analysis methods used to develop the original Iowa curves, except that Russo studied industrial property in service several decades after Winfrey published the original Iowa curves. Russo drew three major conclusions from his research:[42]

1. No evidence was found to conclude that the Iowa curve set, as it stands, is not a valid system of standard curves;

2. No evidence was found to conclude that new curve shapes could be produced at this time that would add to the validity of the Iowa curve set; and

3. No evidence was found to suggest that the number of curves within the Iowa curve set should be reduced.

Prior to Russo's study, some had criticized the Iowa curves as being potentially obsolete because their development was rooted in the study of industrial property in existence during the early 1900s. Russo's research, however, negated this criticism by confirming that the Iowa curves represent a sufficiently wide range of life patterns, and that though technology will change over time, the underlying patterns of retirements remain constant and can be adequately described by the Iowa curves.[43]

Over the years, several more curve types have been added to Winfrey's 18 Iowa curves. In 1967, Harold Cowles added four origin-modal curves. In addition, a square curve is sometimes used to depict retirements which are all planned to occur at a given age. Finally, analysts

[42] *See* Wolf *supra* n. 15, at 37.

[43] *Id*.

commonly rely on several "half curves" derived from the original Iowa curves. Thus, the term "Iowa curves" could be said to describe up to 31 standardized survivor curves.

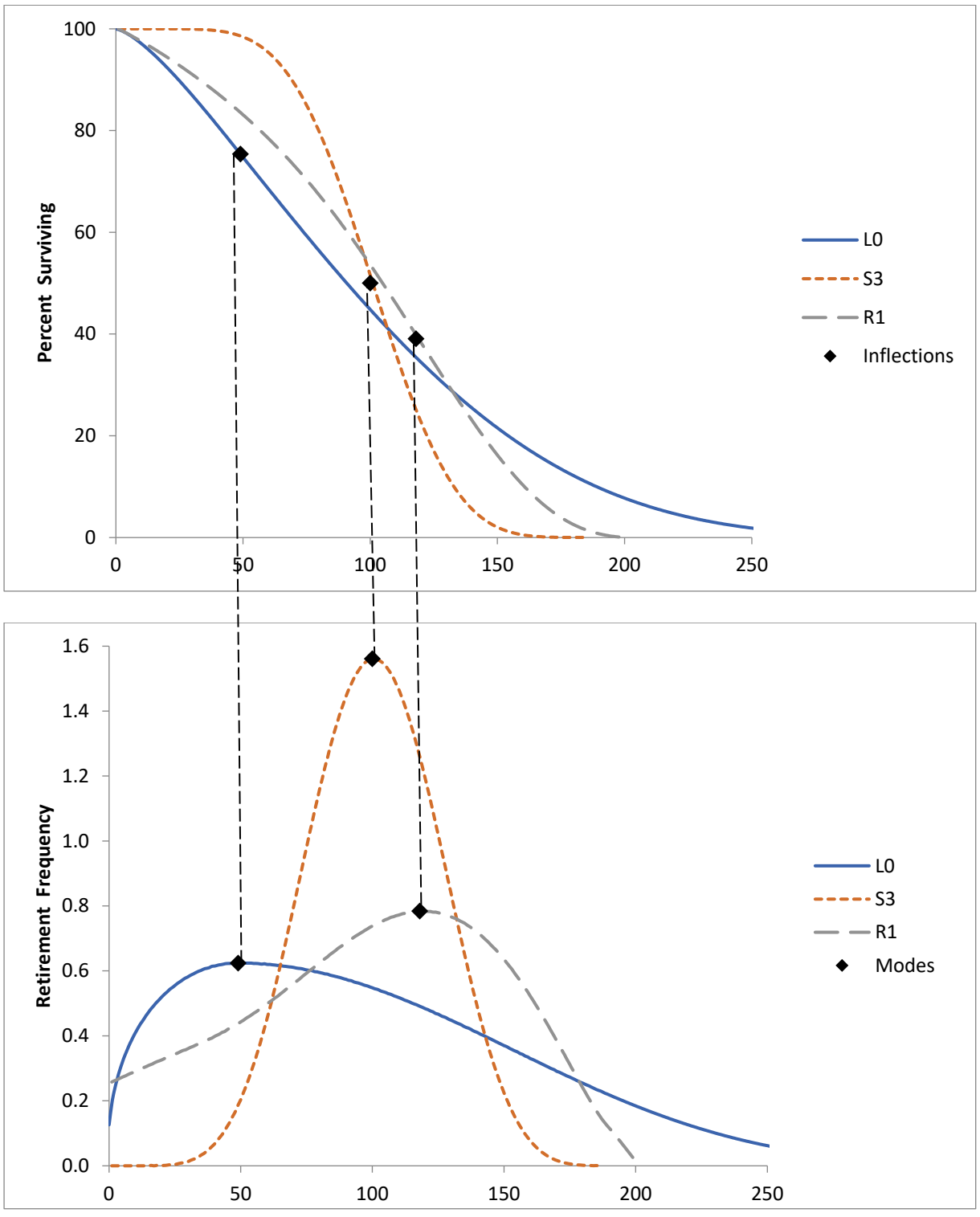
2. Classification

The Iowa curves are classified by three variables: modal location, average life, and variation of life. First, the mode is the percent life that results in the highest point of the frequency curve and the "inflection point" on the survivor curve. The modal age is the age at which the greatest rate of retirement occurs. As illustrated in the figure below, the modes appear at the steepest point of each survivor curve in the top graph, as well as the highest point of each corresponding frequency curve in the bottom graph.

The classification of the survivor curves was made according to whether the mode of the retirement frequency curves was to the left, to the right, or coincident with average service life. There are three modal "families" of curves: six left modal curves (L0, L1, L2, L3, L4, L5); five right modal curves (R1, R2, R3, R4, R5); and seven symmetrical curves (S0, S1, S2, S3, S4, S5, S6).[44] In the figure below, one curve from each family is shown: L0, S3 and R1, with average life at 100 on the x-axis. It is clear from the graphs that the modes for the L0 and R1 curves appear to the left and right of average life respectively, while the S3 mode is coincident with average life.

[44] In 1967, Harold A. Cowles added four origin-modal curves known as "O type" curves. There are also several "half" curves and a square curve, so the total amount of survivor curves commonly called "Iowa" curves is about 31 (see NARUC supra n. 119, at 68).

Figure 2:
Modal Age Illustration



The second Iowa curve classification variable is average life. The Iowa curves were designed using a single parameter of age expressed as a percent of average life instead of actual age. This was necessary in order for the curves to be of practical value. As Winfrey notes:

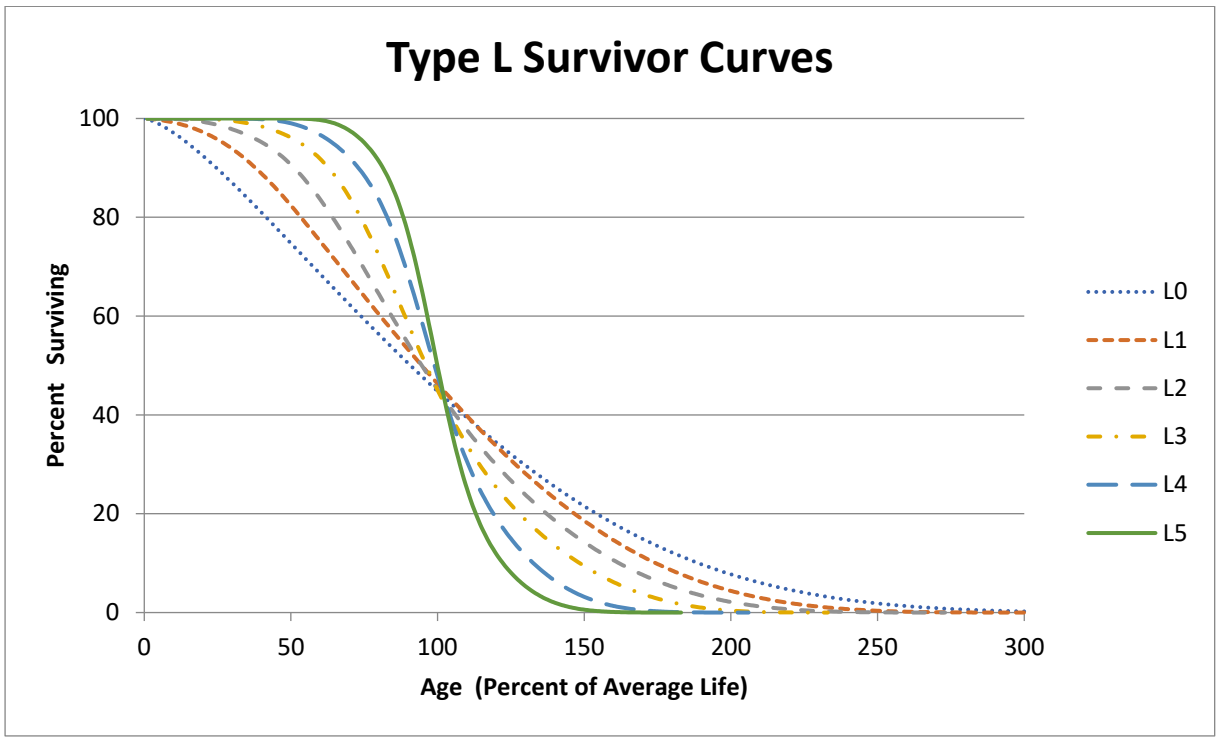
> Since the location of a particular survivor on a graph is affected by both its span in years and the shape of the curve, it is difficult to classify a group of curves unless one of these variables can be controlled. This is easily done by expressing the age in percent of average life."[45]

Because age is expressed in terms of percent of average life, any particular Iowa curve type can be modified to forecast property groups with various average lives.

The third variable, variation of life, is represented by the numbers next to each letter. A lower number (e.g., L1) indicates a relatively low mode, large variation, and large maximum life; a higher number (e.g., L5) indicates a relatively high mode, small variation, and small maximum life. All three classification variables – modal location, average life, and variation of life — are used to describe each Iowa curve. For example, a 13-L1 Iowa curve describes a group of property with a 13-year average life, with the greatest number of retirements occurring before (or to the left of) the average life, and a relatively low mode. The graphs below show these 18 survivor curves, organized by modal family.

[45] Winfrey *supra* n. 40, at 60.

Figure 3:
Type L Survivor and Frequency Curves



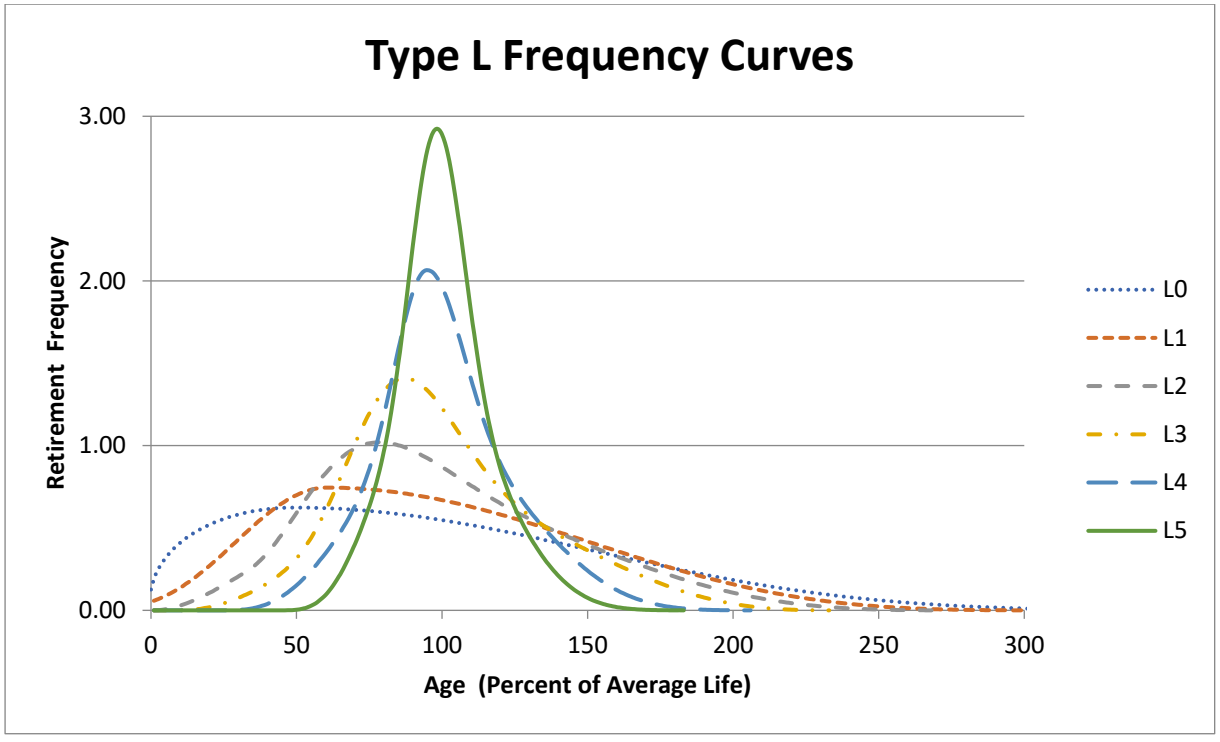
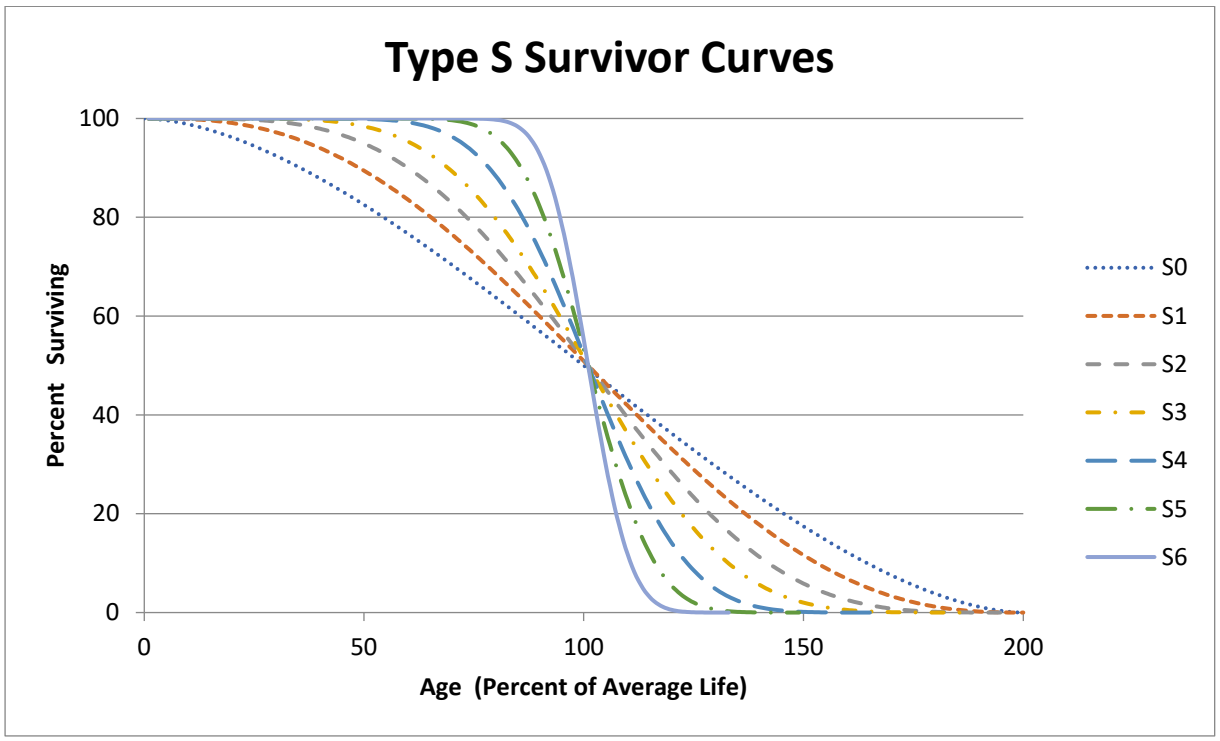


Figure 4:
Type S Survivor and Frequency Curves



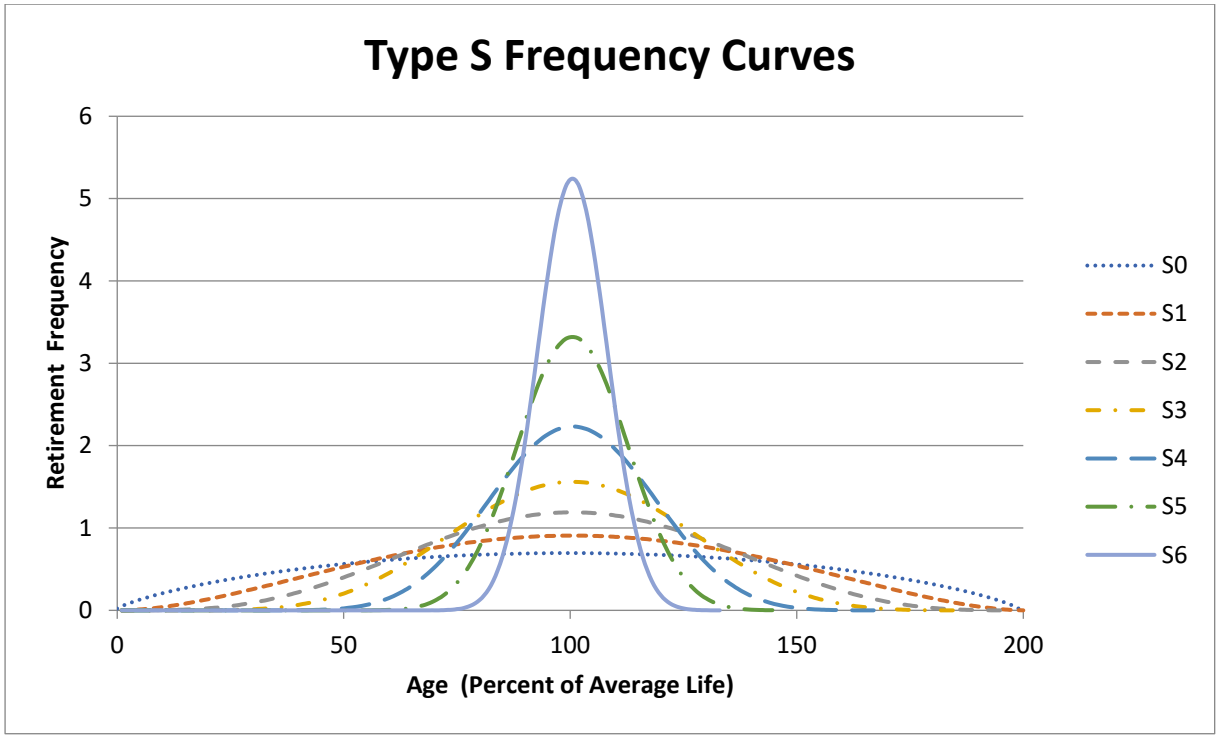
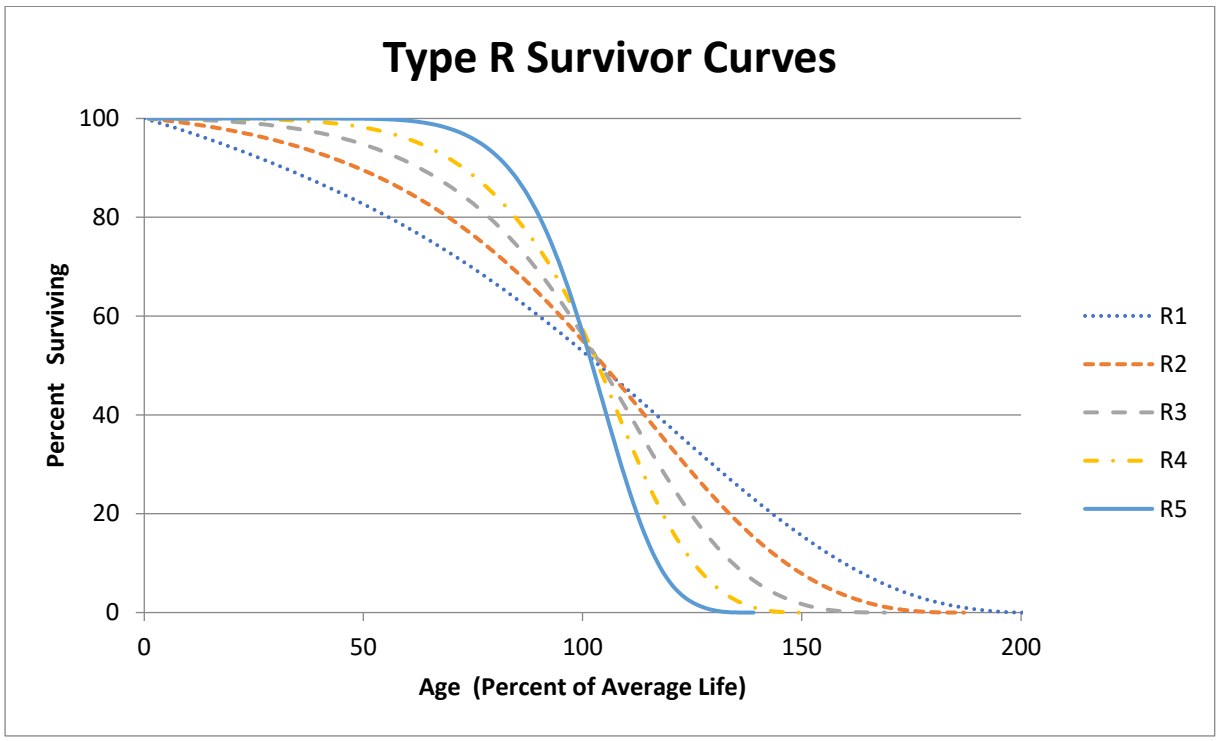
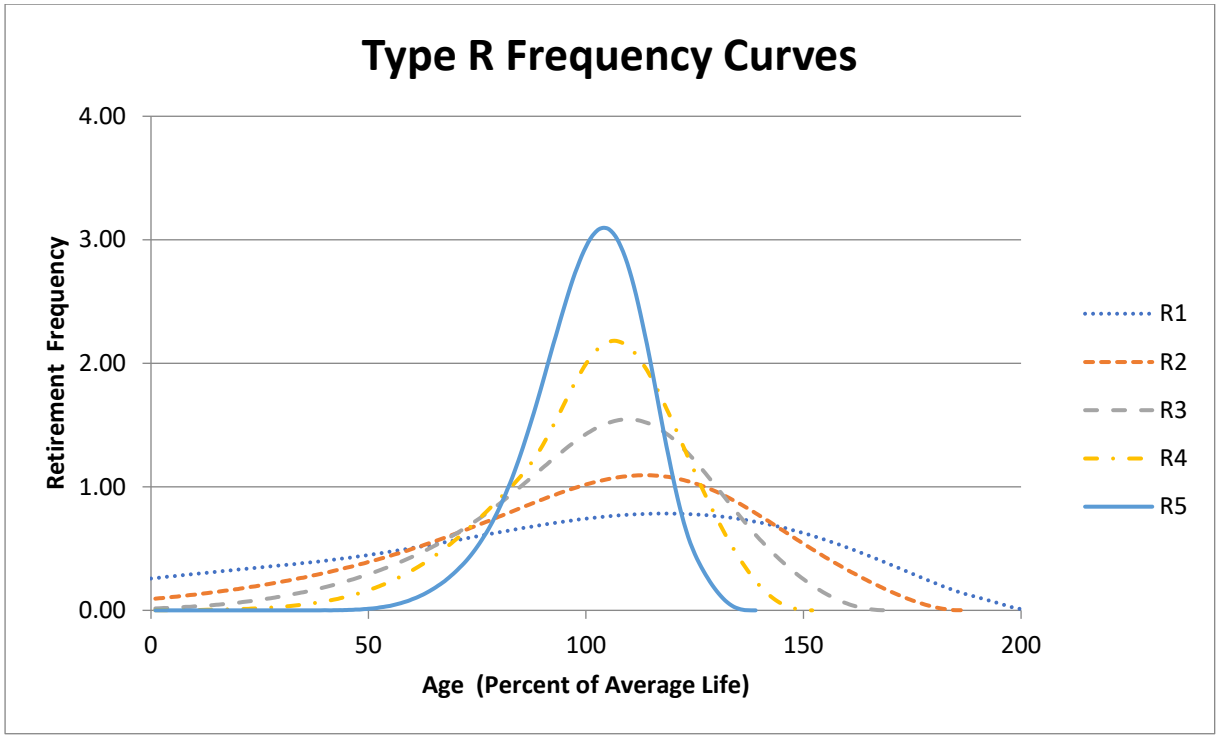


Figure 5:
Type R Survivor and Frequency Curves





As shown in the graphs above, the modes for the L family frequency curves occur to the left of average life (100% on the x-axis), while the S family modes occur at the average, and the R family modes occur after the average.

3. Types of Lives

Several other important statistical analyses and types of lives may be derived from an Iowa curve. These include: 1) average life; 2) realized life; 3) remaining life; and 4) probable life. The figure below illustrates these concepts. It shows the frequency curve, survivor curve, and probable life curve. Age M_x on the x-axis represents the modal age, while age AL_x represents the average age. Thus, this figure illustrates an "L type" Iowa curve since the mode occurs before the average.[46]

First, average life is the area under the survivor curve from age zero to maximum life. Because the survivor curve is measured in percent, the area under the curve must be divided by 100% to convert it from percent-years to years. The formula for average life is as follows:[47]

Equation 9:
Average Life

$$Average\ Life\ = \frac{Area\ Under\ Survivor\ Curve\ from\ Age\ 0\ to\ Max\ Life}{100\%}$$

Thus, average life may not be determined without a complete survivor curve. Many property groups being analyzed will not have experienced full retirement. This results in a "stub" survivor

[46] From age zero to age M_x on the survivor curve, it could be said that the percent surviving from this property group is decreasing at an increasing rate. Conversely, from point M_x to maximum on the survivor curve, the percent surviving is decreasing at a decreasing rate.

[47] *See* NARUC *supra* n. 18, at 71.

curve. Iowa curves are used to extend stub curves to maximum life in order for the average life calculation to be made (see Exhibit DJG-23, Appendix E).

Realized life is similar to average life, except that realized life is the average years of service experienced to date from the vintage's original installations.[48] As shown in the figure below, realized life is the area under the survivor curve from zero to age RL_X. Likewise, unrealized life is the area under the survivor curve from age RL_X to maximum life. Thus, it could be said that average life equals realized life plus unrealized life.

Average remaining life represents the future years of service expected from the surviving property.[49] Remaining life is sometimes referred to as "average remaining life" and "life expectancy." To calculate average remaining life at age x, the area under the estimated future potion of the survivor curve is divided by the percent surviving at age x (denoted S_X). Thus, the average remaining life formula is:

Equation 10:
Average Remaining Life

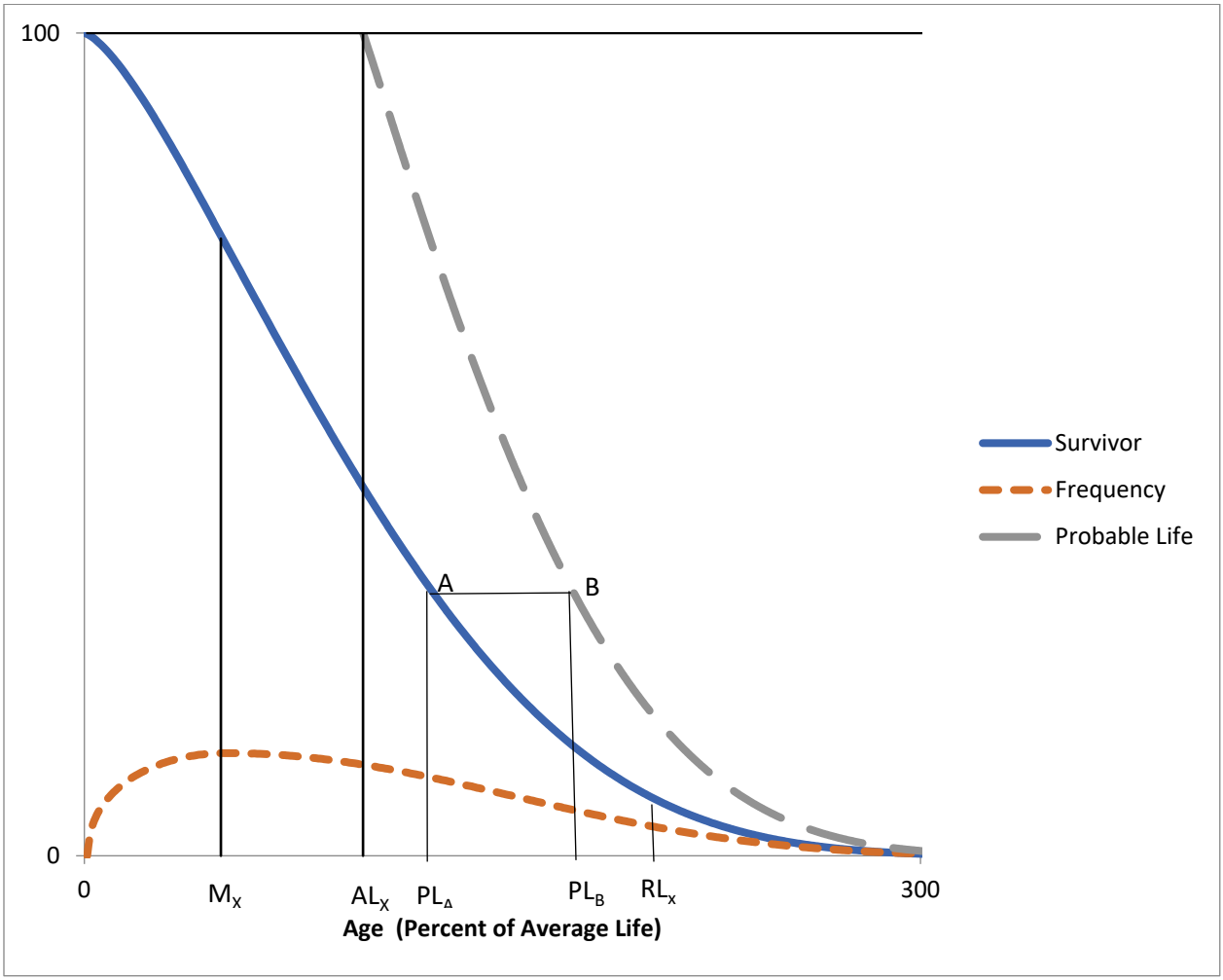
$$Average\ Remaining\ Life\ = \frac{Area\ Under\ Survivor\ Curve\ from\ Age\ x\ to\ Max\ Life}{S_X}$$

It is necessary to determine average remaining life in order to calculate the annual accrual under the remaining life technique.

[48] *Id*. at 73.

[49] *Id*. at 74.

Figure 6:
Iowa Curve Derivations



Finally, the probable life may also be determined from the Iowa curve. The probable life of a property group is the total life expectancy of the property surviving at any age and is equal to the remaining life plus the current age.[50] The probable life is also illustrated in this figure. The probable life at age PL_A is the age at point PL_B. Thus, to read the probable life at age PL_A, see the corresponding point on the survivor curve above at point "A," then horizontally to point "B" on

[50] Wolf *supra* n. 15, at 28.

the probable life curve, and back down to the age corresponding to point "B." It is no coincidence that the vertical line from AL_X connects at the top of the probable life curve. This is because at age zero, probable life equals average life.

APPENDIX E:

ACTUARIAL ANALYSIS

Actuarial science is a discipline that applies various statistical methods to assess risk probabilities and other related functions. Actuaries often study human mortality. The results from historical mortality data are used to predict how long similar groups of people who are alive will live today. Insurance companies rely of actuarial analysis in determining premiums for life insurance policies.

The study of human mortality is analogous to estimating service lives of industrial property groups. While some humans die solely from chance, most deaths are related to age; that is, death rates generally increase as age increases. Similarly, physical plant is also subject to forces of retirement. These forces include physical, functional, and contingent factors, as shown in the table below.[51]

Figure 7:
Forces of Retirement

Physical Factors	Functional Factors	Contingent Factors
Wear and tear Decay or deterioration Action of the elements	Inadequacy Obsolescence Changes in technology Regulations Managerial discretion	Casualties or disasters Extraordinary obsolescence

While actuaries study historical mortality data in order to predict how long a group of people will live, depreciation analysts must look at a utility's historical data in order to estimate the average lives of property groups. A utility's historical data is often contained in the Continuing Property Records ("CPR"). Generally, a CPR should contain 1) an inventory of property record

[51] NARUC *supra* n. 18, at 14-15.

units; 2) the association of costs with such units; and 3) the dates of installation and removal of plant. Since actuarial analysis includes the examination of historical data to forecast future retirements, the historical data used in the analysis should not contain events that are anomalous or unlikely to recur.[52] Historical data is used in the retirement rate actuarial method, which is discussed further below.

The Retirement Rate Method

There are several systematic actuarial methods that use historical data in order to calculate observed survivor curves for property groups. Of these methods, the retirement rate method is superior, and is widely employed by depreciation analysts.[53] The retirement rate method is ultimately used to develop an observed survivor curve, which can be fitted with an Iowa curve discussed in Exhibit DJG-23, Appendix D in order to forecast average life. The observed survivor curve is calculated by using an observed life table ("OLT"). The figures below illustrate how the OLT is developed. First, historical property data are organized in a matrix format, with placement years on the left forming rows, and experience years on the top forming columns. The placement year (a.k.a. "vintage year" or "installation year") is the year of placement of a group of property. The experience year (a.k.a. "activity year") refers to the accounting data for a particular calendar year. The two matrices below use aged data — that is, data for which the dates of placements, retirements, transfers, and other transactions are known. Without aged data, the retirement rate actuarial method may not be employed. The first matrix is the exposure matrix, which shows the

[52] *Id*. at 112-13.

[53] Anson Marston, Robley Winfrey & Jean C. Hempstead, *Engineering Valuation and Depreciation* 154 (2nd ed., McGraw-Hill Book Company, Inc. 1953).

exposures at the beginning of each year.[54] An exposure is simply the depreciable property subject to retirement during a period. The second matrix is the retirement matrix, which shows the annual retirements during each year. Each matrix covers placement years 2003–2015, and experience years 2008-2015. In the exposure matrix, the number in the 2009 experience column and the 2003 placement row is $192,000. This means at the beginning of 2012, there was $192,000 still exposed to retirement from the vintage group placed in 2003. Likewise, in the retirement matrix, $19,000 of the dollars invested in 2003 was retired during 2012.

Figure 8:
Exposure Matrix

	Experience Years									
	Exposures at January 1 of Each Year (Dollars in 000's)									
Placement Years	2008	2009	2010	2011	2012	2013	2014	2015	Total at Start of Age Interval	Age Interval
2003	261	245	228	211	**192**	173	152	131	131	11.5 - 12.5
2004	267	252	236	220	202	**184**	165	145	297	10.5 - 11.5
2005	304	291	277	263	248	232	**216**	198	536	9.5 - 10.5
2006	345	334	322	310	298	284	270	**255**	**847**	8.5 - 9.5
2007	367	357	347	335	324	312	299	286	1,201	7.5 - 8.5
2008	375	366	357	347	336	325	314	302	1,581	6.5 - 7.5
2009		377	366	356	346	336	327	319	1,986	5.5 - 6.5
2010			381	369	358	347	336	327	2,404	4.5 - 5.5
2011				386	372	359	346	334	2,559	3.5 - 4.5
2012					395	380	366	352	2,722	2.5 - 3.5
2013						401	385	370	2,866	1.5 - 2.5
2014							410	393	2,998	0.5 - 1.5
2015								416	3,141	0.0 - 0.5
Total	1919	2222	2514	2796	3070	3333	3586	3827	23,268	

[54] Technically, the last numbers in each column are "gross additions" rather than exposures. Gross additions do not include adjustments and transfers applicable to plant placed in a previous year. Once retirements, adjustments, and transfers are factored in, the balance at the beginning of the next account period is called an "exposure" rather than an addition.

Figure 9:
Retirement Matrix

Placement Years	Experience Years: Retirments During the Year (Dollars in 000's) 2008	2009	2010	2011	2012	2013	2014	2015	Total During Age Interval	Age Interval
2003	16	17	18	19	**19**	20	21	23	23	11.5 - 12.5
2004	15	16	17	17	18	**19**	20	21	43	10.5 - 11.5
2005	13	14	14	15	16	17	**17**	18	59	9.5 - 10.5
2006	11	12	12	13	13	14	15	**15**	**71**	8.5 - 9.5
2007	10	11	11	12	12	13	13	14	82	7.5 - 8.5
2008	9	9	10	10	11	11	12	13	91	6.5 - 7.5
2009		11	10	10	9	9	9	8	95	5.5 - 6.5
2010			12	11	11	10	10	9	100	4.5 - 5.5
2011				14	13	13	12	11	93	3.5 - 4.5
2012					15	14	14	13	91	2.5 - 3.5
2013						16	15	14	93	1.5 - 2.5
2014							17	16	100	0.5 - 1.5
2015								18	112	0.0 - 0.5
Total	74	89	104	121	139	157	175	194	1,052	

These matrices help visualize how exposure and retirement data are calculated for each age interval. An age interval is typically one year. A common convention is to assume that any unit installed during the year is installed in the middle of the calendar year (i.e., July 1st). This convention is called the "half-year convention" and effectively assumes that all units are installed uniformly during the year.[55] Adoption of the half-year convention leads to age intervals of 0-0.5 years, 0.5-1.5 years, etc., as shown in the matrices.

The purpose of the matrices is to calculate the totals for each age interval, which are shown in the second column from the right in each matrix. This column is calculated by adding each number from the corresponding age interval in the matrix. For example, in the exposure matrix, the total amount of exposures at the beginning of the 8.5-9.5 age interval is $847,000. This number was calculated by adding the numbers shown on the "stairs" to the left (192+184+216+255=847).

[55] Wolf *supra* n. 15, at 22.

The same calculation is applied to each number in the column. The amounts retired during the year in the retirements matrix affect the exposures at the beginning of each year in the exposures matrix. For example, the amount exposed to retirement in 2008 from the 2003 vintage is $261,000. The amount retired during 2008 from the 2003 vintage is $16,000. Thus, the amount exposed to retirement in 2009 from the 2003 vintage is $245,000 ($261,000 - $16,000). The company's property records may contain other transactions which affect the property, including sales, transfers, and adjusting entries. Although these transactions are not shown in the matrices above, they would nonetheless affect the amount exposed to retirement at the beginning of each year.

The totaled amounts for each age interval in both matrices are used to form the exposure and retirement columns in the OLT, as shown in the chart below. This chart also shows the retirement ratio and the survivor ratio for each age interval. The retirement ratio for an age interval is the ratio of retirements during the interval to the property exposed to retirement at the beginning of the interval. The retirement ratio represents the probability that the property surviving at the beginning of an age interval will be retired during the interval. The survivor ratio is simply the complement to the retirement ratio (1 – retirement ratio). The survivor ratio represents the probability that the property surviving at the beginning of an age interval will survive to the next age interval.

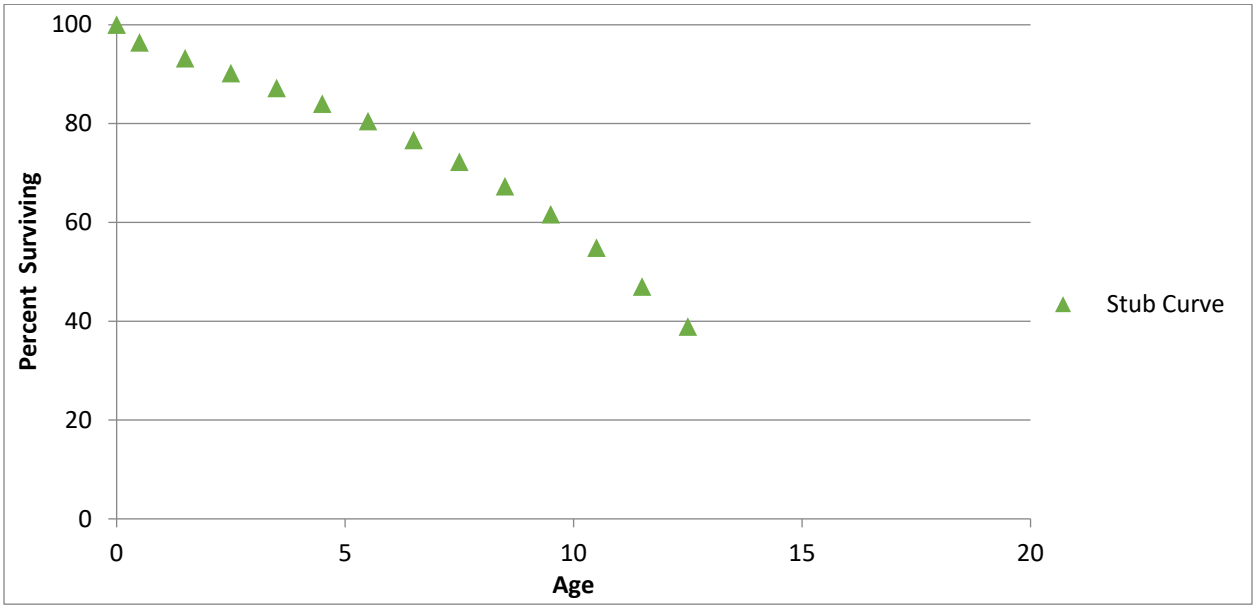
Figure 10:
Observed Life Table

Age at Start of Interval	Exposures at Start of Age Interval	Retirements During Age Interval	Retirement Ratio	Survivor Ratio	Percent Surviving at Start of Age Interval
A	B	C	D = C / B	E = 1 - D	F
0.0	3,141	112	0.036	0.964	**100.00**
0.5	2,998	100	0.033	0.967	**96.43**
1.5	2,866	93	0.032	0.968	**93.21**
2.5	2,722	91	0.033	0.967	**90.19**
3.5	2,559	93	0.037	0.963	**87.19**
4.5	2,404	100	0.042	0.958	**84.01**
5.5	1,986	95	0.048	0.952	**80.50**
6.5	1,581	91	0.058	0.942	**76.67**
7.5	1,201	82	0.068	0.932	**72.26**
8.5	847	71	0.084	0.916	**67.31**
9.5	536	59	0.110	0.890	**61.63**
10.5	297	43	0.143	0.857	**54.87**
11.5	131	23	0.172	0.828	**47.01**
					38.91
Total	23,268	1,052			

Column F on the right shows the percentages surviving at the beginning of each age interval. This column starts at 100% surviving. Each consecutive number below is calculated by multiplying the percent surviving from the previous age interval by the corresponding survivor ratio for that age interval. For example, the percent surviving at the start of age interval 1.5 is 93.21%, which was calculated by multiplying the percent surviving for age interval 0.5 (96.43%) by the survivor ratio for age interval 0.5 (0.967).

The percentages surviving in Column F are the numbers that are used to form the original survivor curve. This particular curve starts at 100% surviving and ends at 38.91% surviving. An observed survivor curve such as this that does not reach zero percent surviving is called a "stub" curve. The figure below illustrates the stub survivor curve derived from the OLT table above.

Figure 11:
Original "Stub" Survivor Curve



The matrices used to develop the basic OLT and stub survivor curve provide a basic illustration of the retirement rate method in that only a few placement and experience years were used. In reality, analysts may have several decades of aged property data to analyze. In that case, it may be useful to use a technique called "banding" in order to identify trends in the data.

Banding

The forces of retirement and characteristics of industrial property are constantly changing. A depreciation analyst may examine the magnitude of these changes. Analysts often use a technique called "banding" to assist with this process. Banding refers to the merging of several years of data into a single data set for further analysis, and it is a common technique associated with the retirement rate method.[56] There are three primary benefits of using bands in depreciation analysis:

[56] NARUC *supra* n. 18, at 113.

1. Increasing the sample size. In statistical analyses, the larger the sample size in relation to the body of total data, the greater the reliability of the result;
2. Smooth the observed data. Generally, the data obtained from a single activity or vintage year will not produce an observed life table that can be easily fit; and
3. Identify trends. By looking at successive bands, the analyst may identify broad trends in the data that may be useful in projecting the future life characteristics of the property.[57]

Two common types of banding methods are the "placement band" method and the "experience band" method." A placement band, as the name implies, isolates selected placement years for analysis. The figure below illustrates the same exposure matrix shown above, except that only the placement years 2005-2008 are considered in calculating the total exposures at the beginning of each age interval.

[57] *Id*.

Figure 12:
Placement Bands

Placement Years	Experience Years: Exposures at January 1 of Each Year (Dollars in 000's) 2008	2009	2010	2011	2012	2013	2014	2015	Total at Start of Age Interval	Age Interval
2003	261	245	228	211	192	173	152	131		11.5 - 12.5
2004	267	252	236	220	202	184	165	145		10.5 - 11.5
2005	304	291	277	263	248	232	216	198	198	9.5 - 10.5
2006	345	334	322	310	298	284	270	255	471	8.5 - 9.5
2007	367	357	347	335	324	312	299	286	788	7.5 - 8.5
2008	375	366	357	347	336	325	314	302	1,133	6.5 - 7.5
2009		377	366	356	346	336	327	319	1,186	5.5 - 6.5
2010			381	369	358	347	336	327	1,237	4.5 - 5.5
2011				386	372	359	346	334	1,285	3.5 - 4.5
2012					395	380	366	352	1,331	2.5 - 3.5
2013						401	385	370	1,059	1.5 - 2.5
2014							410	393	733	0.5 - 1.5
2015								416	375	0.0 - 0.5
Total	1919	2222	2514	2796	3070	3333	3586	3827	9,796	

The shaded cells within the placement band equal the total exposures at the beginning of age interval 4.5–5.5 ($1,237). The same placement band would be used for the retirement matrix covering the same placement years of 2005 – 2008. This of course would result in a different OLT and original stub survivor curve than those that were calculated above without the restriction of a placement band.

Analysts often use placement bands for comparing the survivor characteristics of properties with different physical characteristics.[58] Placement bands allow analysts to isolate the effects of changes in technology and materials that occur in successive generations of plant. For example, if in 2005 an electric utility began placing transmission poles with a special chemical treatment that extended the service lives of the poles, an analyst could use placement bands to isolate and analyze the effect of that change in the property group's physical characteristics. While placement

[58] Wolf *supra* n. 15, at 182.

bands are very useful in depreciation analysis, they also possess an intrinsic dilemma. A fundamental characteristic of placement bands is that they yield fairly complete survivor curves for older vintages. However, with newer vintages, which are arguably more valuable for forecasting, placement bands yield shorter survivor curves. Longer "stub" curves are considered more valuable for forecasting average life. Thus, an analyst must select a band width broad enough to provide confidence in the reliability of the resulting curve fit yet narrow enough so that an emerging trend may be observed.[59]

Analysts also use "experience bands." Experience bands show the composite retirement history for all vintages during a select set of activity years. The figure below shows the same data presented in the previous exposure matrices, except that the experience band from 2011 – 2013 is isolated, resulting in different interval totals.

[59] NARUC *supra* n. 18, at 114.

Figure 13:
Experience Bands

	Experience Years									
	Exposures at January 1 of Each Year (Dollars in 000's)									
Placement Years	2008	2009	2010	2011	2012	2013	2014	2015	Total at Start of Age Interval	Age Interval
2003	261	245	228	211	192	173	152	131		11.5 - 12.5
2004	267	252	236	220	202	184	165	145		10.5 - 11.5
2005	304	291	277	263	248	232	216	198	173	9.5 - 10.5
2006	345	334	322	310	298	284	270	255	376	8.5 - 9.5
2007	367	357	347	335	324	312	299	286	645	7.5 - 8.5
2008	375	366	357	347	336	325	314	302	752	6.5 - 7.5
2009		377	366	356	346	336	327	319	872	5.5 - 6.5
2010			381	369	358	347	336	327	959	4.5 - 5.5
2011				386	372	359	346	334	1,008	3.5 - 4.5
2012					395	380	366	352	1,039	2.5 - 3.5
2013						401	385	370	1,072	1.5 - 2.5
2014							410	393	1,121	0.5 - 1.5
2015								416	1,182	0.0 - 0.5
Total	1919	2222	2514	2796	3070	3333	3586	3827	9,199	

The shaded cells within the experience band equal the total exposures at the beginning of age interval 4.5–5.5 ($1,237). The same experience band would be used for the retirement matrix covering the same experience years of 2011 – 2013. This of course would result in a different OLT and original stub survivor than if the band had not been used. Analysts often use experience bands to isolate and analyze the effects of an operating environment over time.[60] Likewise, the use of experience bands allows analysis of the effects of an unusual environmental event. For example, if an unusually severe ice storm occurred in 2013, destruction from that storm would affect an electric utility's line transformers of all ages. That is, each of the line transformers from each placement year would be affected, including those recently installed in 2012, as well as those installed in 2003. Using experience bands, an analyst could isolate or even eliminate the 2013 experience year from the analysis. In contrast, a placement band would not effectively isolate the

[60] *Id.*

ice storm's effect on life characteristics. Rather, the placement band would show an unusually large rate of retirement during 2013, making it more difficult to accurately fit the data with a smooth Iowa curve. Experience bands tend to yield the most complete stub curves for recent bands because they have the greatest number of vintages included. Longer stub curves are better for forecasting. The experience bands, however, may also result in more erratic retirement dispersion making the curve fitting process more difficult.

Depreciation analysts must use professional judgment in determining the types of bands to use and the band widths. In practice, analysts may use various combinations of placement and experience bands in order to increase the data sample size, identify trends and changes in life characteristics, and isolate unusual events. Regardless of which bands are used, observed survivor curves in depreciation analysis rarely reach zero percent. This is because, as seen in the OLT above, relatively newer vintage groups have not yet been fully retired at the time the property is studied. An analyst could confine the analysis to older, fully retired vintage groups in order to get complete survivor curves, but such analysis would ignore some the property currently in service and would arguably not provide an accurate description of life characteristics for current plant in service. Because a complete curve is necessary to calculate the average life of the property group, however, curve fitting techniques using Iowa curves or other standardized curves may be employed in order to complete the stub curve.

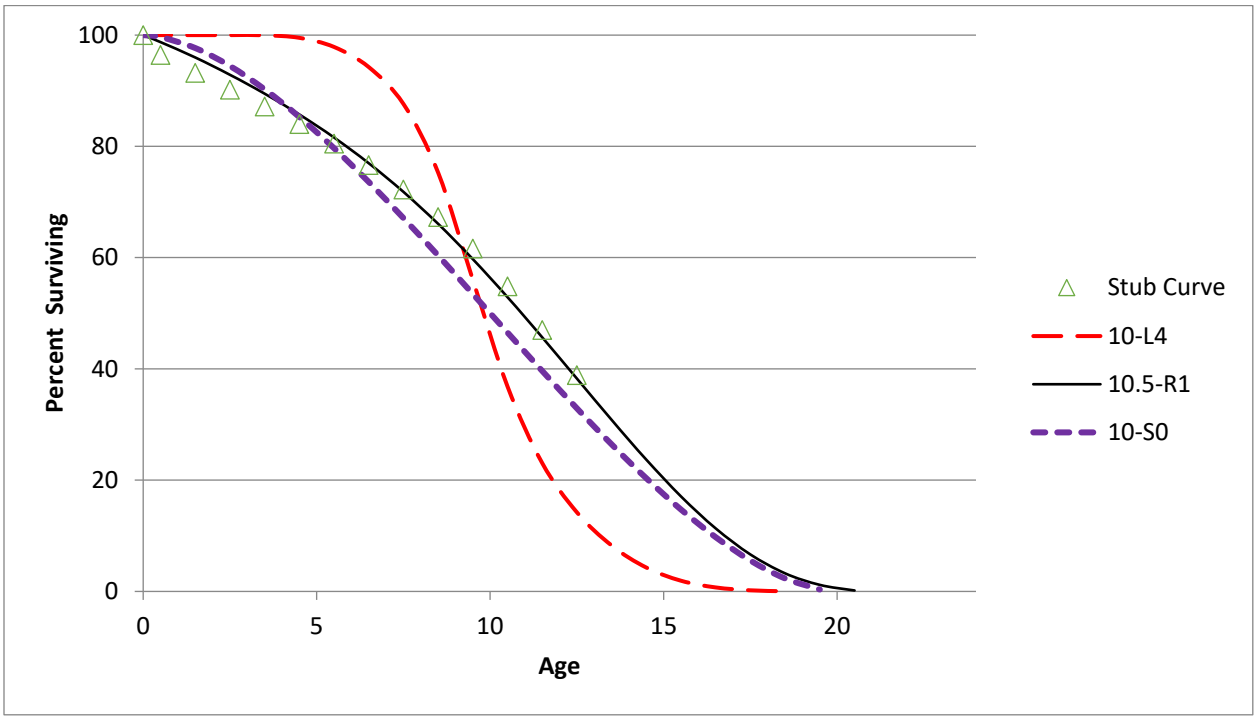
Curve Fitting

Depreciation analysts typically use the survivor curve rather than the frequency curve to fit the observed stub curves. The most commonly used generalized survivor curves used in the curve fitting process are the Iowa curves discussed above. As Wolf notes, if "the Iowa curves are

adopted as a model, an underlying assumption is that the process describing the retirement pattern is one of the 22 [or more] processes described by the Iowa curves."[61]

Curve fitting may be done through visual matching or mathematical matching. In visual curve fitting, the analyst visually examines the plotted data to make an initial judgment about the Iowa curves that may be a good fit. The figure below illustrates the stub survivor curve shown above. It also shows three different Iowa curves: the 10-L4, the 10.5-R1, and the 10-S0. Visually, it is clear that the 10.5-R1 curve is a better fit than the other two curves.

Figure 14:
Visual Curve Fitting



In mathematical fitting, the least squares method is used to calculate the best fit. This mathematical method would be excessively time consuming if done by hand. With the use of

[61] Wolf *supra* n. 15, at 46 (22 curves includes Winfrey's 18 original curves plus Cowles's four "O" type curves).

modern computer software however, mathematical fitting is an efficient and useful process. The typical logic for a computer program, as well as the software employed for the analysis in this testimony is as follows:

> First (an Iowa curve) curve is arbitrarily selected. . . . If the observed curve is a stub curve, . . . calculate the area under the curve and up to the age at final data point. Call this area the realized life. Then systematically vary the average life of the theoretical survivor curve and calculate its realized life at the age corresponding to the study date. This trial and error procedure ends when you find an average life such that the realized life of the theoretical curve equals the realized life of the observed curve. Call this the average life.
>
> Once the average life is found, calculate the difference between each percent surviving point on the observed survivor curve and the corresponding point on the Iowa curve. Square each difference and sum them. The sum of squares is used as a measure of goodness of fit for that particular Iowa type curve. This procedure is repeated for the remaining 21 Iowa type curves. The "best fit" is declared to be the type of curve that minimizes the sum of differences squared.[62]

Mathematical fitting requires less judgment from the analyst and is thus less subjective. Blind reliance on mathematical fitting, however, may lead to poor estimates. Thus, analysts should employ both mathematical and visual curve fitting in reaching their final estimates. This way, analysts may utilize the objective nature of mathematical fitting while still employing professional judgment. As Wolf notes: "The results of mathematical curve fitting serve as a guide for the analyst and speed the visual fitting process. But the results of the mathematical fitting should be checked visually and the final determination of the best fit be made by the analyst."[63]

In the graph above, visual fitting was sufficient to determine that the 10.5-R1 Iowa curve was a better fit than the 10-L4 and the 10-S0 curves. Using the sum of least squares method, mathematical fitting confirms the same result. In the chart below, the percentages surviving from

---

[62] Wolf *supra* n. 15, at 47.

[63] *Id*. at 48.

the OLT that formed the original stub curve are shown in the left column, while the corresponding percentages surviving for each age interval are shown for the three Iowa curves. The right portion of the chart shows the differences between the points on each Iowa curve and the stub curve. These differences are summed at the bottom. Curve 10.5-R1 is the best fit because the sum of the squared differences for this curve is less than the same sum of the other two curves. Curve 10-L4 is the worst fit, which was also confirmed visually.

Figure 15:
Mathematical Fitting

Age	Stub	Iowa Curves			Squared Differences		
Interval	Curve	10-L4	10-S0	10.5-R1	10-L4	10-S0	10.5-R1
0.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0
0.5	96.4	100.0	99.7	98.7	12.7	10.3	5.3
1.5	93.2	100.0	97.7	96.0	46.1	19.8	7.6
2.5	90.2	100.0	94.4	92.9	96.2	18.0	7.2
3.5	87.2	100.0	90.2	89.5	162.9	9.3	5.2
4.5	84.0	99.5	85.3	85.7	239.9	1.6	2.9
5.5	80.5	97.9	79.7	81.6	301.1	0.7	1.2
6.5	76.7	94.2	73.6	77.0	308.5	9.5	0.1
7.5	72.3	87.6	67.1	71.8	235.2	26.5	0.2
8.5	67.3	75.2	60.4	66.1	62.7	48.2	1.6
9.5	61.6	56.0	53.5	59.7	31.4	66.6	3.6
10.5	54.9	36.8	46.5	52.9	325.4	69.6	3.9
11.5	47.0	23.1	39.6	45.7	572.6	54.4	1.8
12.5	38.9	14.2	32.9	38.2	609.6	36.2	0.4
SUM					**3004.2**	**371.0**	**41.0**

5000 Carrington Pl.
Oklahoma City, OK 73131

DAVID J. GARRETT

(405) 249-1050
dgarrett@resolveuc.com

EDUCATION

University of Oklahoma — Norman, OK
Master of Business Administration — 2014
Areas of Concentration: Finance, Energy

University of Oklahoma College of Law — Norman, OK
Juris Doctor — 2007
Member, American Indian Law Review

University of Oklahoma — Norman, OK
Bachelor of Business Administration — 2003
Major: Finance

PROFESSIONAL DESIGNATIONS

Society of Depreciation Professionals
Certified Depreciation Professional (CDP)

Society of Utility and Regulatory Financial Analysts
Certified Rate of Return Analyst (CRRA)

WORK EXPERIENCE

Resolve Utility Consulting PLLC — Oklahoma City, OK
Managing Member — 2016 – Present
Provide expert analysis and testimony specializing in depreciation and cost of capital issues for clients in utility regulatory proceedings.

Oklahoma Corporation Commission — Oklahoma City, OK
Public Utility Regulatory Analyst — 2012 – 2016
Assistant General Counsel — 2011 – 2012
Represented commission staff in utility regulatory proceedings and provided legal opinions to commissioners. Provided expert analysis and testimony in depreciation, cost of capital, incentive compensation, payroll and other issues.

Perebus Counsel, PLLC — Oklahoma City, OK
Managing Member — 2009 – 2011
Represented clients in the areas of family law, estate planning, debt negotiations, business organization, and utility regulation.

Moricoli & Schovanec, P.C. — Oklahoma City, OK
Associate Attorney — 2007 – 2009
Represented clients in the areas of contracts, oil and gas, business structures and estate administration.

TEACHING EXPERIENCE

University of Oklahoma — Norman, OK
Adjunct Instructor – "Conflict Resolution" — 2014 – 2021
Adjunct Instructor – "Ethics in Leadership"

Rose State College — Midwest City, OK
Adjunct Instructor – "Legal Research" — 2013 – 2015
Adjunct Instructor – "Oil & Gas Law"

PROFESSIONAL ASSOCIATIONS

Oklahoma Bar Association — 2007 – Present

Society of Depreciation Professionals — 2014 – Present
Board Member – President — 2017
Participate in management of operations, attend meetings, review performance, organize presentation agenda.

Society of Utility Regulatory Financial Analysts — 2014 – Present

Utility Regulatory Proceedings

Regulatory Agency	Utility Applicant	Docket Number	Issues Addressed	Parties Represented
Pennsylvania Public Utility Commission	The York Water Company, et al	R-2025-3053442 R-2025-3053573	Cost of capital, awarded rate of return, capital structure	Pennsylvania Office of Consumer Advocate
Pennsylvania Public Utility Commission	UGI Utilities, Inc.	R-2024-3052716	Cost of capital, depreciation rates, net salvage	Pennsylvania Office of Consumer Advocate
Wyoming Public Service Commission	Rocky Mountain Power	20000-671-ER-24	Cost of capital and authorized rate of return	Wyoming Industrial Energy Consumers
Oklahoma Corporation Commission	Public Service Company of Oklahoma	PUD 2023-000086	Cost of capital, depreciation rates, net salvage	Oklahoma Industrial Energy Consumers
Public Service Commission of South Carolina	Piedmont Natural Gas Company	2022-89-G 2024-179-G	Depreciation rates, service lives, net salvage	South Carolina Office of Regulatory Staff
Florida Public Service Commission	Peoples Gas System	20250029-GU	Cost of capital, awarded rate of return, capital structure	Florida Office of Public Counsel
Public Service Commission of the State of Montana	NorthWestern Energy	2024.05.053	Cost of capital, depreciation rates, net salvage	Montana Consumer Counsel and Montana Large Customer Group
New York State Public Service Commission	Niagara Mohawk Power Corporation	24-E-0322 24-G-0323	Depreciation rates, service lives, net salvage, depreciation reserve	Utility Intervention Unit of the New York State Department of State's Division of Consumer Protection
Public Utilities Commission of Ohio	Ohio Edison Company, The Cleveland Electric Illuminating Company, and The Toledo Edison Company	24-468-EL-AIR, *et seq* .	Depreciation rates, service lives, net salvage	Office of the Ohio Consumers' Counsel
Public Utility Commission of Texas	El Paso Electric Company	PUC 57568	Depreciation rates, service lives, net salvage	The City of El Paso
Public Service Commission of Utah	Enbridge Gas Utah	25-057-06	Cost of capital, depreciation rates, net salvage	Office of Consumer Services
Pennsylvania Public Utility Commission	Pennsylvania-American Water Company	A-2025-3052983	Fair market value review (Elizabeth Borough)	Pennsylvania Office of Consumer Advocate
Commonwealth of Virginia State Corporation Commission	Virginia Electric and Power Company	PUR-2025-00058	Cost of capital, awarded rate of return, capital structure	Data Center Coalition
Delaware Public Service Commission	Delmarva Power & Light Company	24-1044	Cost of capital, depreciation rates, net salvage	Division of the Public Advocate

Utility Regulatory Proceedings

Regulatory Agency	Utility Applicant	Docket Number	Issues Addressed	Parties Represented
New York State Public Service Commission	Consolidated Edison Company of New York, Inc.	25-E-0072 25-G-0073	Depreciation rates, service lives, net salvage, depreciation reserve	Utility Intervention Unit of the New York State Department of State's Division of Consumer Protection
Pennsylvania Public Utility Commission	Columbia Gas of Pennsylvania	R-2025-3053499	Cost of capital, depreciation rates, net salvage	Pennsylvania Office of Consumer Advocate
Public Utility Commission of Texas	CenterPoint Energy Houston Electric	PUC 58028	System restoration costs	Texas Coast Utilities Coalition
Mississippi Public Service Commission	Atmos Energy Corporation	2025-UN-59	Depreciation rates, service lives, net salvage	Mississippi Public Utilities Staff
Public Service Commission of West Virginia	Appalachian Power Company and Wheeling Power Company	24-0854-E-42T	Cost of capital, awarded rate of return, capital structure	Consumer Advocate Division of the Public Service Commission of West Virginia
Public Service Commission of West Virginia	Appalachian Power Company and Wheeling Power Company	24-0670-E-D	Depreciation rates, service lives, net salvage	Consumer Advocate Division of the Public Service Commission of West Virginia
New Jersey Board of Public Utilities	Atlantic City Electric Company	ER24110854	Cost of capital, awarded rate of return, capital structure	Staff of the New Jersey Board of Public Utilities
Pennsylvania Public Utility Commission	Aqua Pennsylvania, Inc.	A-2022-3033138	Fair market value review (Beaver Falls)	Pennsylvania Office of Consumer Advocate
Mississippi Public Service Commission	Mississippi Power Company	2024-UN-117	Depreciation rates, service lives, net salvage	Mississippi Public Utilities Staff
Public Service Commission of the State of Montana	Montana-Dakota Utilities Company	2024.05.061	Cost of capital, depreciation rates, net salvage	Montana Consumer Counsel
Maryland Public Service Commission	Columbia Gas of Maryland	9754	Cost of capital, depreciation rates, net salvage	Maryland Office of People's Counsel
Railroad Commission of Texas	Atmos Energy, Mid-Tex Division	OS-24-00019196	Depreciation rates, service lives, net salvage	Atmos Texas Municipalities
Wyoming Public Service Commission	Montana-Dakota Utilities Co.	30013-415-GR-24	Depreciation rates, service lives, net salvage	Wyoming Office of Consumer Advocate
Indiana Utility Regulatory Commission	Duke Energy Indiana	46038	Cost of capital, depreciation rates, net salvage	Indiana Office of Utility Consumer Counselor

Utility Regulatory Proceedings

Regulatory Agency	Utility Applicant	Docket Number	Issues Addressed	Parties Represented
Railroad Commission of Texas	Atmos Energy, West Texas Division	OS-24-00018879	Depreciation rates, service lives, net salvage	The Cities of Amarillo, Lubbock, Dalhart, and Channing
Washington Utilities & Transportation Commission	Cascadia Water, LLC	UW-240151	Cost of capital, awarded rate of return, capital structure	Washington Office of Attorney General
Railroad Commission of Texas	West Texas Gas Utility	OS-24-00017816	Cost of capital, depreciation rates, net salvage	Alliance of WTG Municipalities
Maryland Public Service Commission	Washington Gas Light Company	9737	Cost of capital, awarded rate of return, capital structure	Maryland Office of People's Counsel
Railroad Commission of Texas	Texas Gas Services Company	OS-24-00017471	Depreciation rates, service lives, net salvage	The Steering Committee of Cities
Pennsylvania Public Utility Commission	Veolia Water Pennsylvania, Inc.	R-2024-3045192 R-2024-3045193	Cost of capital, depreciation rates, net salvage	Pennsylvania Office of Consumer Advocate
Pennsylvania Public Utility Commission	PECO Energy Company - Gas Division	R-2024-3046932	Cost of capital, awarded rate of return, capital structure	Pennsylvania Office of Consumer Advocate
Pennsylvania Public Utility Commission	PECO Energy Company - Electric Division	R-2024-3046931	Cost of capital, awarded rate of return, capital structure	Pennsylvania Office of Consumer Advocate
Oklahoma Corporation Commission	Oklahoma Gas & Electric Company	PUD 2023-000087	Cost of capital, depreciation rates, net salvage	Oklahoma Industrial Energy Consumers
Maryland Public Service Commission	Maryland Water Service, Inc.	9729	Cost of capital, awarded rate of return, capital structure	Maryland Office of People's Counsel
Kansas Corporation Commission	Kansas Gas Service	24-KGSG-610-RTS	Depreciation rates, service lives, net salvage	The Citizens' Utility Ratepayer Board
Pennsylvania Public Utility Commission	FirstEnergy Pennsylvania Electric Company	R-2024-3047068	Depreciation rates, service lives, net salvage	Pennsylvania Office of Consumer Advocate
Maryland Public Service Commission	Chesapeake Utilities Corporation Sandpiper Energy, Inc. Elkton Gas Company	9721	Depreciation rates, service lives, net salvage	Maryland Office of People's Counsel
Pennsylvania Public Utility Commission	Duquesne Light Company	R-2024-3046523	Cost of capital, depreciation rates, net salvage	Pennsylvania Office of Consumer Advocate

Utility Regulatory Proceedings

Regulatory Agency	Utility Applicant	Docket Number	Issues Addressed	Parties Represented
Public Utility Commission of Texas	CenterPoint Energy Houston Electric	PUC 56211	Depreciation rates, service lives, net salvage	Texas Coast Utilities Coalition
Washington Utilities & Transportation Commission	Avista Corporation	UE-240006 UG-240007	Cost of capital, awarded rate of return, capital structure	Washington Office of Attorney General
Public Utility Commission of Texas	AEP Texas Inc.	PUC 56165	Depreciation rates, service lives, net salvage	Cities Served by AEP Texas
Public Utilities Commission of Nevada	Southwest Gas Corporation	23-09012	Depreciation rates, service lives, net salvage	Bureau of Consumer Protection
Public Utilities Commission of the State of California	Southern California Edison	A.23-05-010	Depreciation rates, service lives, net salvage	The Utility Reform Network
Pennsylvania Public Utility Commission	Pennsylvania-American Water Company	R-2023-3043189 R-2023-3043190	Cost of capital, awarded rate of return, capital structure	Pennsylvania Office of Consumer Advocate
Indiana Utility Regulatory Commission	Northern Indiana Public Service Company	45967	Depreciation rates, service lives, net salvage	Indiana Office of Utility Consumer Counselor
Massachusetts Department of Public Utilities	Massachusetts Electric Company and Nantucket Electric Company D/B/A National Grid	D.P.U. 23-150	Depreciation rates, service lives, net salvage	Massachusetts Office of the Attorney General, Office of Ratepayer Advocacy
Iowa Utilities Board	Interstate Power and Light Company	RPU-2023-0002	Depreciation rates, service lives, net salvage	Office of Consumer Advocate
Public Service Commission of South Carolina	Duke Energy Carolinas	2023-388-E 2023-403-E	Depreciation rates, service lives, net salvage	South Carolina Office of Regulatory Staff
Indiana Utility Regulatory Commission	Citizens Energy Group	45988	Depreciation rates, service lives, net salvage	Indiana Office of Utility Consumer Counselor
Railroad Commission of Texas	CenterPoint Energy Resources Corp.	OS-23-00015513	Depreciation rates, service lives, net salvage	Alliance of CenterPoint Municipalities
Indiana Utility Regulatory Commission	CenterPoint Energy Indiana South	45990	Depreciation rates, service lives, net salvage	Indiana Office of Utility Consumer Counselor
Delaware Public Service Commission	Artesian Water Company, Inc.	23-0601	Cost of capital, depreciation rates, net salvage	Division of the Public Advocate

Utility Regulatory Proceedings

Regulatory Agency	Utility Applicant	Docket Number	Issues Addressed	Parties Represented
Maryland Public Service Commission	Washington Gas Light Company	9704	Cost of capital, awarded rate of return, capital structure	Maryland Office of People's Counsel
Delaware Public Service Commission	Veolia Water Delaware Inc.	23-0598	Cost of capital, awarded rate of return, capital structure	Division of the Public Advocate
Connecticut Public Utilities Regulatory Authority	United Illuminating Company	22-08-08	Depreciation rates, service lives, net salvage	PURA Staff
Public Utility Commission of Texas	Southwestern Public Service Company	PUC 54634	Depreciation rates, service lives, net salvage	Alliance of Xcel Municipalities
Railroad Commission of Texas	SiEnergy, LP	OS-23-00013504	Depreciation rates, service lives, net salvage	Texas municipal intervenor group
Pennsylvania Public Utility Commission	Aqua Pennsylvania, Inc.	A-2022-3034143	Fair market value review	Pennsylvania Office of Consumer Advocate
Wyoming Public Service Commission	Rocky Mountain Power	20000-633-ER-23	Cost of capital and authorized rate of return	Wyoming Industrial Energy Consumers
Maryland Public Service Commission	Potomac Electric Power Company	9702	Depreciation rates, service lives, net salvage	Maryland Office of People's Counsel
Public Utilities Commission of Nevada	Nevada Power Company d/b/a NV Energy	23-06007 23-06008	Depreciation rates, service lives, net salvage	Bureau of Consumer Protection
Public Utilities Commission of Ohio	Northeast Ohio Natural Gas Corp.	23-0154-GA-AIR	Cost of capital, awarded rate of return, capital structure	Office of the Ohio Consumers' Counsel
New York State Public Service Commission	The Brooklyn Union Gas Company and Keyspan Gas East Corporation d/b/a Nation Grid	23-G-0225 23-G-0226	Depreciation rates, service lives, net salvage, depreciation reserve	The City of New York
Idaho Public Utilities Commission	Idaho Power Company	IPC-E-23-11	Cost of capital, awarded rate of return, capital structure	Micron Technology, Inc.
Indiana Utility Regulatory Commission	Indiana Michigan Power Company	45933	Depreciation rates, service lives, net salvage	Indiana Office of Utility Consumer Counselor
Massachusetts Department of Public Utilities	Fitchburg Gas and Electric Company d/b/a Unitil	D.P.U. 23-80; D.P.U. 23-81	Depreciation rates, service lives, net salvage	Massachusetts Office of the Attorney General, Office of Ratepayer Advocacy

Utility Regulatory Proceedings

Regulatory Agency	Utility Applicant	Docket Number	Issues Addressed	Parties Represented
Kansas Corporation Commission	Evergy Kansas Central, Evergy Kansas South, and Evergy Metro	23-EKCE-775-RTS	Depreciation rates, service lives, net salvage	The Citizens' Utility Ratepayer Board
Delaware Public Service Commission	Delmarva Power & Light Company	22-0897	Cost of capital, awarded rate of return, capital structure	Division of the Public Advocate
Connecticut Public Utilities Regulatory Authority	Connecticut Water Company	23-08-32	Depreciation rates, service lives, net salvage	PURA Staff
Connecticut Public Utilities Regulatory Authority	Connecticut Natural Gas Corporation and The Southern Connecticut Gas Company	23-11-02	Depreciation rates, service lives, net salvage	PURA Staff
Railroad Commission of Texas	Atmos Pipeline – Texas	OS-23-00013758	Depreciation rates, service lives, net salvage	Atmos Texas Municipalities
Wyoming Public Service Commission	Black Hills Wyoming Gas	30026-78-GR-23	Depreciation rates, service lives, net salvage	Wyoming Office of Consumer Advocate
Indiana Utility Regulatory Commission	Indianapolis Power & Light Company d/b/a AES Indiana	45911	Depreciation rates, service lives, net salvage	Indiana Office of Utility Consumer Counselor
New Mexico Public Regulation Commission	Southwestern Public Service Company	22-00286-UT	Cost of capital, depreciation rates, net salvage	The New Mexico Large Customer Group; Occidental Permian
Public Utilities Commission of the State of California	Southern California Gas Company San Diego Gas & Electric Company	A.22-05-015 A.22-05-016	Depreciation rates, service lives, net salvage	The Utility Reform Network
Public Utilties Commission of the State of Colorado	Public Service Company of Colorado	22AL-0530E 22AL-0478E	Cost of capital, awarded rate of return, capital structure	Colorado Energy Consumers
New Mexico Public Regulatory Commission	Public Service Company of New Mexico	22-00270-UT	Cost of capital, depreciation rates, net salvage	The Albuquerque Bernalillo County Water Utility Authority
Florida Public Service Commission	Peoples Gas System	20230023-GU 20220219-GU 20220212-GU	Cost of capital, depreciation rates, net salvage	Florida Office of Public Counsel
Maryland Public Service Commission	Potomac Edison Company	9695	Cost of capital, depreciation rates, net salvage	Maryland Office of People's Counsel
Public Service Commission of the State of Montana	Montana-Dakota Utilities Company	2022.11.099	Depreciation rates, service lives, net salvage	Montana Consumer Counsel and Denbury Onshore

Utility Regulatory Proceedings

Regulatory Agency	Utility Applicant	Docket Number	Issues Addressed	Parties Represented
Indiana Utility Regulatory Commission	Indiana-American Water Company	45870	Depreciation rates, service lives, net salvage	Indiana Office of Utility Consumer Counselor
Public Service Commission of South Carolina	Dominion Energy South Carolina	2023-70-G	Depreciation rates, service lives, net salvage	South Carolina Office of Regulatory Staff
Maryland Public Service Commission	Columbia Gas of Maryland	9701	Cost of capital, awarded rate of return, capital structure	Maryland Office of People's Counsel
Pennsylvania Public Utility Commission	Columbia Water Company	R-2023-3040258	Cost of capital, awarded rate of return, capital structure	Pennsylvania Office of Consumer Advocate
Maryland Public Service Commission	Baltimore Gas and Electric Company	9692	Depreciation rates, service lives, net salvage	Maryland Office of People's Counsel
Arizona Corporation Commission	Arizona Public Service Company	E-01345A-22-0144	Cost of capital, awarded rate of return, capital structure	Residential Utility Consumer Office
Oklahoma Corporation Commission	Public Service Company of Oklahoma	PUD 2022-000093	Cost of capital, depreciation rates, net salvage	Oklahoma Industrial Energy Consumers
Public Service Commission of the State of Montana	NorthWestern Energy	2022.07.078	Cost of capital, depreciation rates, net salvage	Montana Consumer Counsel and Montana Large Customer Group
Indiana Utility Regulatory Commission	Northern Indiana Public Service Company	45772	Cost of capital, depreciation rates, net salvage	Indiana Office of Utility Consumer Counselor
Public Service Commission of South Carolina	Duke Energy Progress	2022-254-E	Depreciation rates, service lives, net salvage	South Carolina Office of Regulatory Staff
Wyoming Public Service Commission	Cheyenne Light, Fuel and Power Company D/B/A Black Hills Energy	20003-214-ER-22	Depreciation rates, service lives, net salvage	Wyoming Office of Consumer Advocate
Railroad Commission of Texas	Texas Gas Services Company	OS-22-00009896	Depreciation rates, service lives, net salvage	The City of El Paso
Public Utilities Commission of Nevada	Sierra Pacific Power Company	22-06014	Depreciation rates, service lives, net salvage	Bureau of Consumer Protection
Washington Utilities & Transportation Commission	Puget Sound Energy	UE-220066 UG-220067 UG-210918	Depreciation rates, service lives, net salvage	Washington Office of Attorney General

Utility Regulatory Proceedings

Regulatory Agency	Utility Applicant	Docket Number	Issues Addressed	Parties Represented
Public Utility Commission of Texas	Oncor Electric Delivery Company LLC	PUC 53601	Depreciation rates, service lives, net salvage	Alliance of Oncor Cities
Florida Public Service Commission	Florida Public Utilities Company	20220067-GU	Cost of capital, depreciation rates	Florida Office of Public Counsel
Public Utility Commission of Texas	Entergy Texas, Inc.	PUC 53719	Depreciation rates, decommissioning costs	Texas Municipal Group
Florida Public Service Commission	Florida City Gas	2020069-GU	Cost of capital, depreciation rates	Florida Office of Public Counsel
Connecticut Public Utilities Regulatory Authority	Aquarion Water Company of Connecticut	22-07-01	Depreciation rates, service lives, net salvage	PURA Staff
Washington Utilities & Transportation Commission	Avista Corporation	UE-220053 UG-220054 UE-210854	Cost of capital, awarded rate of return, capital structure	Washington Office of Attorney General
Federal Energy Regulatory Commission	ANR Pipeline Company	RP22-501-000	Depreciation rates, service lives, net salvage	Ascent Resources - Utica, LLC
Pennsylvania Public Utility Commission	Columbia Gas of Pennsylvania, Inc.	R-2022-3031211	Cost of capital, awarded rate of return, capital structure	Pennsylvania Office of Consumer Advocate
Public Service Commission of South Carolina	Piedmont Natural Gas Company	2022-89-G	Depreciation rates, service lives, net salvage	South Carolina Office of Regulatory Staff
Pennsylvania Public Utility Commission	UGI Utilities, Inc. - Gas Division	R-2021-3030218	Cost of capital, awarded rate of return, capital structure	Pennsylvania Office of Consumer Advocate
Public Utilities Commission of the State of California	Pacific Gas & Electric Company	A.21-06-021	Depreciation rates, service lives, net salvage	The Utility Reform Network
Pennsylvania Public Utility Commission	PECO Energy Company - Gas Division	R-2022-3031113	Cost of capital, awarded rate of return, capital structure	Pennsylvania Office of Consumer Advocate
Oklahoma Corporation Commission	Oklahoma Gas & Electric Company	PUD 202100164	Cost of capital, depreciation rates, net salvage	Oklahoma Industrial Energy Consumers
Massachusetts Department of Public Utilities	NSTAR Electric Company D/B/A Eversource Energy	D.P.U. 22-22	Depreciation rates, service lives, net salvage	Massachusetts Office of the Attorney General, Office of Ratepayer Advocacy

Utility Regulatory Proceedings

Regulatory Agency	Utility Applicant	Docket Number	Issues Addressed	Parties Represented
Michigan Public Service Company	DTE Electric Company	U-20836	Cost of capital, awarded rate of return, capital structure	Michigan Environmental Council and Citizens Utility Board of Michigan
New York State Public Service Commission	Consolidated Edison Company of New York, Inc.	22-E-0064 22-G-0065	Depreciation rates, service lives, net salvage, depreciation reserve	The City of New York
Pennsylvania Public Utility Commission	Aqua Pennsylvania Wastewater / East Whiteland Township	A-2021-3026132	Fair market value estimates for wastewater assets	Pennsylvania Office of Consumer Advocate
Public Service Commission of South Carolina	Kiawah Island Utility, Inc.	2021-324-WS	Cost of capital, awarded rate of return, capital structure	South Carolina Office of Regulatory Staff
Pennsylvania Public Utility Commission	Aqua Pennsylvania Wastewater / Willistown Township	A-2021-3027268	Fair market value estimates for wastewater assets	Pennsylvania Office of Consumer Advocate
Indiana Utility Regulatory Commission	Northern Indiana Public Service Company	45621	Depreciation rates, service lives, net salvage	Indiana Office of Utility Consumer Counselor
Arkansas Public Service Commission	Southwestern Electric Power Company	21-070-U	Cost of capital, depreciation rates, net salvage	Western Arkansas Large Energy Consumers
Federal Energy Regulatory Commission	Southern Star Central Gas Pipeline	RP21-778-002	Depreciation rates, service lives, net salvage	Consumer-Owned Shippers
Railroad Commission of Texas	Participating Texas gas utilities in consolidated proceeding	OS-21-00007061	Securitization of extraordinary gas costs arising from winter storms	The City of El Paso
Public Service Commission of South Carolina	Palmetto Wastewater Reclamation, Inc.	2021-153-S	Cost of capital, awarded rate of return, capital structure, ring-fencing	South Carolina Office of Regulatory Staff
Public Utilties Commission of the State of Colorado	Public Service Company of Colorado	21AL-0317E	Cost of capital, depreciation rates, net salvage	Colorado Energy Consumers
Pennsylvania Public Utility Commission	City of Lancaster - Water Department	R-2021-3026682	Cost of capital, awarded rate of return, capital structure	Pennsylvania Office of Consumer Advocate
Public Utility Commission of Texas	Southwestern Public Service Company	PUC 51802	Depreciation rates, service lives, net salvage	The Alliance of Xcel Municipalities
Pennsylvania Public Utility Commission	The Borough of Hanover - Hanover Municipal Waterworks	R-2021-3026116	Cost of capital, awarded rate of return, capital structure	Pennsylvania Office of Consumer Advocate

Utility Regulatory Proceedings

Regulatory Agency	Utility Applicant	Docket Number	Issues Addressed	Parties Represented
Maryland Public Service Commission	Delmarva Power & Light Company	9670	Cost of capital and authorized rate of return	Maryland Office of People's Counsel
Oklahoma Corporation Commission	Oklahoma Natural Gas Company	PUD 202100063	Cost of capital, awarded rate of return, capital structure	Oklahoma Industrial Energy Consumers
Indiana Utility Regulatory Commission	Indiana Michigan Power Company	45576	Depreciation rates, service lives, net salvage	Indiana Office of Utility Consumer Counselor
Public Utility Commission of Texas	El Paso Electric Company	PUC 52195	Depreciation rates, service lives, net salvage	The City of El Paso
Pennsylvania Public Utility Commission	Aqua Pennsylvania	R-2021-3027385	Cost of capital, awarded rate of return, capital structure	Pennsylvania Office of Consumer Advocate
Public Service Commission of the State of Montana	NorthWestern Energy	D2021.02.022	Cost of capital, awarded rate of return, capital structure	Montana Consumer Counsel
Pennsylvania Public Utility Commission	PECO Energy Company	R-2021-3024601	Cost of capital, awarded rate of return, capital structure	Pennsylvania Office of Consumer Advocate
New Mexico Public Regulation Commission	Southwestern Public Service Company	20-00238-UT	Cost of capital and authorized rate of return	The New Mexico Large Customer Group; Occidental Permian
Oklahoma Corporation Commission	Public Service Company of Oklahoma	PUD 202100055	Cost of capital, depreciation rates, net salvage	Oklahoma Industrial Energy Consumers
Pennsylvania Public Utility Commission	Duquesne Light Company	R-2021-3024750	Cost of capital, awarded rate of return, capital structure	Pennsylvania Office of Consumer Advocate
Maryland Public Service Commission	Columbia Gas of Maryland	9664	Cost of capital and authorized rate of return	Maryland Office of People's Counsel
Indiana Utility Regulatory Commission	Southern Indiana Gas Company, d/b/a Vectren Energy Delivery of Indiana, Inc.	45447	Depreciation rates, service lives, net salvage	Indiana Office of Utility Consumer Counselor
Public Utility Commission of Texas	Southwestern Electric Power Company	PUC 51415	Depreciation rates, service lives, net salvage	Cities Advocating Reasonable Deregulation
New Mexico Public Regulatory Commission	Avangrid, Inc., Avangrid Networks, Inc., NM Green Holdings, Inc., PNM, and PNM Resources	20-00222-UT	Ring fencing and capital structure	The Albuquerque Bernalillo County Water Utility Authority

Utility Regulatory Proceedings

Regulatory Agency	Utility Applicant	Docket Number	Issues Addressed	Parties Represented
Indiana Utility Regulatory Commission	Indiana Gas Company, d/b/a Vectren Energy Delivery of Indiana, Inc.	45468	Depreciation rates, service lives, net salvage	Indiana Office of Utility Consumer Counselor
Public Utilities Commission of Nevada	Nevada Power Company and Sierra Pacific Power Company, d/b/a NV Energy	20-07023	Construction work in progress	MGM Resorts International, Caesars Enterprise Services, LLC, and the Southern Nevada Water Authority
Massachusetts Department of Public Utilities	Boston Gas Company, d/b/a National Grid	D.P.U. 20-120	Depreciation rates, service lives, net salvage	Massachusetts Office of the Attorney General, Office of Ratepayer Advocacy
Public Service Commission of the State of Montana	ABACO Energy Services, LLC	D2020.07.082	Cost of capital and authorized rate of return	Montana Consumer Counsel
Maryland Public Service Commission	Washington Gas Light Company	9651	Cost of capital and authorized rate of return	Maryland Office of People's Counsel
Florida Public Service Commission	Utilities, Inc. of Florida	20200139-WS	Cost of capital and authorized rate of return	Florida Office of Public Counsel
New Mexico Public Regulatory Commission	El Paso Electric Company	20-00104-UT	Cost of capital, depreciation rates, net salvage	City of Las Cruces and Doña Ana County
Public Utilities Commission of Nevada	Nevada Power Company	20-06003	Cost of capital, awarded rate of return, capital structure, earnings sharing	MGM Resorts International, Caesars Enterprise Services, LLC, Wynn Las Vegas, LLC, Smart Energy Alliance, and Circus Circus Las Vegas, LLC
Wyoming Public Service Commission	Rocky Mountain Power	20000-578-ER-20	Cost of capital and authorized rate of return	Wyoming Industrial Energy Consumers
Florida Public Service Commission	Peoples Gas System	20200051-GU 20200166-GU	Cost of capital, depreciation rates, net salvage	Florida Office of Public Counsel
Wyoming Public Service Commission	Rocky Mountain Power	20000-539-EA-18	Depreciation rates, service lives, net salvage	Wyoming Industrial Energy Consumers
Public Service Commission of South Carolina	Dominion Energy South Carolina	2020-125-E	Depreciation rates, service lives, net salvage	South Carolina Office of Regulatory Staff
Pennsylvania Public Utility Commission	The City of Bethlehem	2020-3020256	Cost of capital, awarded rate of return, capital structure	Pennsylvania Office of Consumer Advocate
Railroad Commission of Texas	Texas Gas Services Company	GUD 10928	Depreciation rates, service lives, net salvage	Gulf Coast Service Area Steering Committee

Utility Regulatory Proceedings

Regulatory Agency	Utility Applicant	Docket Number	Issues Addressed	Parties Represented
Public Utilities Commission of the State of California	Southern California Edison	A.19-08-013	Depreciation rates, service lives, net salvage	The Utility Reform Network
Massachusetts Department of Public Utilities	NSTAR Gas Company	D.P.U. 19-120	Depreciation rates, service lives, net salvage	Massachusetts Office of the Attorney General, Office of Ratepayer Advocacy
Georgia Public Service Commission	Liberty Utilities (Peach State Natural Gas)	42959	Depreciation rates, service lives, net salvage	Public Interest Advocacy Staff
Florida Public Service Commission	Florida Public Utilities Company	20190155-El 20190156-El 20190174-El	Depreciation rates, service lives, net salvage	Florida Office of Public Counsel
Illinois Commerce Commission	Commonwealth Edison Company	20-0393	Depreciation rates, service lives, net salvage	The Office of the Illinois Attorney General
Public Utility Commission of Texas	Southwestern Public Service Company	PUC 49831	Depreciation rates, service lives, net salvage	Alliance of Xcel Municipalities
Public Service Commission of South Carolina	Blue Granite Water Company	2019-290-WS	Depreciation rates, service lives, net salvage	South Carolina Office of Regulatory Staff
Railroad Commission of Texas	CenterPoint Energy Resources	GUD 10920	Depreciation rates and grouping procedure	Alliance of CenterPoint Municipalities
Pennsylvania Public Utility Commission	Aqua Pennsylvania Wastewater / East Norriton Township	A-2019-3009052	Fair market value estimates for wastewater assets	Pennsylvania Office of Consumer Advocate
New Mexico Public Regulation Commission	Southwestern Public Service Company	19-00170-UT	Cost of capital and authorized rate of return	The New Mexico Large Customer Group; Occidental Permian
Indiana Utility Regulatory Commission	Duke Energy Indiana	45253	Cost of capital, depreciation rates, net salvage	Indiana Office of Utility Consumer Counselor
Maryland Public Service Commission	Columbia Gas of Maryland	9609	Depreciation rates, service lives, net salvage	Maryland Office of People's Counsel
Washington Utilities & Transportation Commission	Avista Corporation	UE-190334	Cost of capital, awarded rate of return, capital structure	Washington Office of Attorney General
Indiana Utility Regulatory Commission	Indiana Michigan Power Company	45235	Cost of capital, depreciation rates, net salvage	Indiana Office of Utility Consumer Counselor

Utility Regulatory Proceedings

Regulatory Agency	Utility Applicant	Docket Number	Issues Addressed	Parties Represented
Public Utilities Commission of the State of California	Pacific Gas & Electric Company	18-12-009	Depreciation rates, service lives, net salvage	The Utility Reform Network
Oklahoma Corporation Commission	The Empire District Electric Company	PUD 201800133	Cost of capital, authorized ROE, depreciation rates	Oklahoma Industrial Energy Consumers and Oklahoma Energy Results
Arkansas Public Service Commission	Southwestern Electric Power Company	19-008-U	Cost of capital, depreciation rates, net salvage	Western Arkansas Large Energy Consumers
Public Utility Commission of Texas	CenterPoint Energy Houston Electric	PUC 49421	Depreciation rates, service lives, net salvage	Texas Coast Utilities Coalition
Massachusetts Department of Public Utilities	Massachusetts Electric Company and Nantucket Electric Company	D.P.U. 18-150	Depreciation rates, service lives, net salvage	Massachusetts Office of the Attorney General, Office of Ratepayer Advocacy
Oklahoma Corporation Commission	Oklahoma Gas & Electric Company	PUD 201800140	Cost of capital, authorized ROE, depreciation rates	Oklahoma Industrial Energy Consumers and Oklahoma Energy Results
Public Service Commission of the State of Montana	Montana-Dakota Utilities Company	D2018.9.60	Depreciation rates, service lives, net salvage	Montana Consumer Counsel and Denbury Onshore
Indiana Utility Regulatory Commission	Northern Indiana Public Service Company	45159	Depreciation rates, grouping procedure, demolition costs	Indiana Office of Utility Consumer Counselor
Public Service Commission of the State of Montana	NorthWestern Energy	D2018.2.12	Depreciation rates, service lives, net salvage	Montana Consumer Counsel
Oklahoma Corporation Commission	Public Service Company of Oklahoma	PUD 201800097	Depreciation rates, service lives, net salvage	Oklahoma Industrial Energy Consumers and Wal-Mart
Nevada Public Utilities Commission	Southwest Gas Corporation	18-05031	Depreciation rates, service lives, net salvage	Nevada Bureau of Consumer Protection
Public Utility Commission of Texas	Texas-New Mexico Power Company	PUC 48401	Depreciation rates, service lives, net salvage	Alliance of Texas-New Mexico Power Municipalities
Oklahoma Corporation Commission	Oklahoma Gas & Electric Company	PUD 201700496	Depreciation rates, service lives, net salvage	Oklahoma Industrial Energy Consumers and Oklahoma Energy Results
Maryland Public Service Commission	Washington Gas Light Company	9481	Depreciation rates, service lives, net salvage	Maryland Office of People's Counsel

Utility Regulatory Proceedings

Regulatory Agency	Utility Applicant	Docket Number	Issues Addressed	Parties Represented
Indiana Utility Regulatory Commission	Citizens Energy Group	45039	Depreciation rates, service lives, net salvage	Indiana Office of Utility Consumer Counselor
Public Utility Commission of Texas	Entergy Texas, Inc.	PUC 48371	Depreciation rates, decommissioning costs	Texas Municipal Group
Washington Utilities & Transportation Commission	Avista Corporation	UE-180167	Depreciation rates, service lives, net salvage	Washington Office of Attorney General
New Mexico Public Regulation Commission	Southwestern Public Service Company	17-00255-UT	Cost of capital and authorized rate of return	HollyFrontier Navajo Refining; Occidental Permian
Public Utility Commission of Texas	Southwestern Public Service Company	PUC 47527	Depreciation rates, plant service lives	Alliance of Xcel Municipalities
Public Service Commission of the State of Montana	Montana-Dakota Utilities Company	D2017.9.79	Depreciation rates, service lives, net salvage	Montana Consumer Counsel
Florida Public Service Commission	Florida City Gas	20170179-GU	Cost of capital, depreciation rates	Florida Office of Public Counsel
Washington Utilities & Transportation Commission	Avista Corporation	UE-170485	Cost of capital and authorized rate of return	Washington Office of Attorney General
Wyoming Public Service Commission	Powder River Energy Corporation	10014-182-CA-17	Credit analysis, cost of capital	Private customer
Oklahoma Corporation Commission	Public Service Co. of Oklahoma	PUD 201700151	Depreciation, terminal salvage, risk analysis	Oklahoma Industrial Energy Consumers
Public Utility Commission of Texas	Oncor Electric Delivery Company	PUC 46957	Depreciation rates, simulated analysis	Alliance of Oncor Cities
Nevada Public Utilities Commission	Nevada Power Company	17-06004	Depreciation rates, service lives, net salvage	Nevada Bureau of Consumer Protection
Public Utility Commission of Texas	El Paso Electric Company	PUC 46831	Depreciation rates, interim retirements	City of El Paso
Idaho Public Utilities Commission	Idaho Power Company	IPC-E-16-24	Accelerated depreciation of North Valmy plant	Micron Technology, Inc.

Utility Regulatory Proceedings

Regulatory Agency	Utility Applicant	Docket Number	Issues Addressed	Parties Represented
Idaho Public Utilities Commission	Idaho Power Company	IPC-E-16-23	Depreciation rates, service lives, net salvage	Micron Technology, Inc.
Public Utility Commission of Texas	Southwestern Electric Power Company	PUC 46449	Depreciation rates, decommissioning costs	Cities Advocating Reasonable Deregulation
Massachusetts Department of Public Utilities	Eversource Energy	D.P.U. 17-05	Cost of capital, capital structure, and rate of return	Sunrun Inc.; Energy Freedom Coalition of America
Railroad Commission of Texas	Atmos Pipeline - Texas	GUD 10580	Depreciation rates, grouping procedure	City of Dallas
Public Utility Commission of Texas	Sharyland Utility Company	PUC 45414	Depreciation rates, simulated analysis	City of Mission
Oklahoma Corporation Commission	Empire District Electric Company	PUD 201600468	Cost of capital, depreciation rates	Oklahoma Industrial Energy Consumers
Railroad Commission of Texas	CenterPoint Energy Texas Gas	GUD 10567	Depreciation rates, simulated plant analysis	Texas Coast Utilities Coalition
Arkansas Public Service Commission	Oklahoma Gas & Electric Company	160-159-GU	Cost of capital, depreciation rates, terminal salvage	Arkansas River Valley Energy Consumers; Wal-Mart
Florida Public Service Commission	Peoples Gas	160-159-GU	Depreciation rates, service lives, net salvage	Florida Office of Public Counsel
Arizona Corporation Commission	Arizona Public Service Company	E-01345A-16-0036	Cost of capital, depreciation rates, terminal salvage	Energy Freedom Coalition of America
Nevada Public Utilities Commission	Sierra Pacific Power Company	16-06008	Depreciation rates, net salvage, theoretical reserve	Northern Nevada Utility Customers
Oklahoma Corporation Commission	Oklahoma Gas & Electric Co.	PUD 201500273	Cost of capital, depreciation rates, terminal salvage	Public Utility Division
Oklahoma Corporation Commission	Public Service Co. of Oklahoma	PUD 201500208	Cost of capital, depreciation rates, terminal salvage	Public Utility Division
Oklahoma Corporation Commission	Oklahoma Natural Gas Company	PUD 201500213	Cost of capital, depreciation rates, net salvage	Public Utility Division

Proxy Group Summary

Company	Ticker	Market Cap. ($ millions)	Market Category	Value Line Safety Rank	Financial Strength
American States Water Co	AWR	2,900	Mid Cap	1	A
American Water Works Co Inc	AWK	25,700	Large Cap	2	B++
California Water Service Gp	CWT	2,600	Mid Cap	2	B++
Essential Utilities, Inc.	WTRG	10,900	Large Cap	2	A
Middlesex Water Co	MSEX	950	Small Cap	3	A
H2O America	HTO	1,800	Small Cap	3	B+

Value Line Investment Survey

DCF - Stock and Index Prices

Exhibit DJG-3

Ticker	^GSPC	AWR	AWK	CWT	WTRG	MSEX	HTO
30-day Average	6874	73.08	130.40	43.67	38.35	51.65	49.15
Standard Deviation	59.6	0.70	1.74	0.71	0.55	0.96	1.43
12/01/25	6813	73.45	131.00	45.21	39.37	51.25	46.86
12/02/25	6829	72.89	130.75	44.75	38.85	50.88	47.45
12/03/25	6850	72.96	130.97	44.51	38.86	51.14	48.00
12/04/25	6857	72.44	128.93	44.29	37.90	51.35	47.52
12/05/25	6870	73.17	129.50	44.88	38.00	51.91	47.91
12/08/25	6847	71.80	128.46	43.60	37.46	51.04	46.59
12/09/25	6841	71.86	128.15	42.31	37.23	50.92	46.58
12/10/25	6887	72.69	128.72	42.81	37.16	51.39	47.95
12/11/25	6901	72.91	130.09	43.25	37.67	52.15	48.46
12/12/25	6827	73.95	131.55	44.17	37.95	53.05	49.05
12/15/25	6817	73.97	134.13	43.81	38.43	53.07	48.87
12/16/25	6800	73.73	132.72	43.90	38.31	53.25	49.36
12/17/25	6721	74.12	134.01	43.96	39.01	53.41	50.05
12/18/25	6775	73.96	133.02	43.86	38.67	53.52	49.95
12/19/25	6835	73.08	130.25	42.88	37.93	51.70	48.95
12/22/25	6878	73.68	131.67	43.28	38.57	52.14	49.80
12/23/25	6910	73.36	130.75	43.05	38.43	51.61	49.45
12/24/25	6932	73.56	131.28	43.29	38.57	51.72	49.40
12/26/25	6930	73.04	130.55	43.41	38.57	51.45	48.83
12/29/25	6906	73.08	130.95	43.56	38.71	51.40	48.89
12/30/25	6896	73.11	131.13	43.57	38.45	50.94	49.26
12/31/25	6846	72.48	130.50	43.33	38.36	50.42	48.99
01/02/26	6858	72.26	130.32	42.95	38.67	50.27	49.25
01/05/26	6902	71.62	127.40	42.54	37.79	50.20	49.86
01/06/26	6945	72.54	128.97	43.33	38.48	50.94	50.65
01/07/26	6921	72.52	127.27	43.24	38.02	50.42	50.52
01/08/26	6921	72.90	129.27	43.66	38.48	50.98	50.52
01/09/26	6966	73.20	127.98	43.61	38.32	51.70	51.59
01/12/26	6977	74.32	130.30	44.58	39.15	52.80	51.81
01/13/26	6964	73.82	131.26	44.52	39.19	52.56	52.11

All prices are adjusted closing prices reported by Yahoo! Finance, http://finance.yahoo.com

DCF - Dividend Yields

Company	Ticker	[1] Annualized Dividend	[2] Stock Price	[3] Dividend Yield
American States Water Co	AWR	2.02	73.08	2.76%
American Water Works Co Inc	AWK	3.31	130.40	2.54%
California Water Service Gp	CWT	1.20	43.67	2.75%
Essential Utilities, Inc.	WTRG	1.37	38.35	3.57%
Middlesex Water Co	MSEX	1.38	51.65	2.67%
H2O America	HTO	1.68	49.15	3.42%
Average		**$1.83**	**$64.38**	**2.95%**

[1] Yahoo Finance

[2] Average stock price from Exhibit DJG-3

[3] = [1] / [2]

DCF - Terminal Growth Rate Determinants

DCF Growth Rate Indicators	Rate
Nominal GDP	3.7%
Real GDP	1.6%
Long-Term Growth Ceiling	**3.7%**

CBO, The 2025 Long-Term Budget Outlook, p. 32

DCF - Final Result

Company	Ticker	[1] Dividend Yield	[2] Analyst Growth	[3] Sustainable Growth	[4] DCF Result (Analyst Growth)	[5] DCF Result (Sustainable Growth)
American States Water Co	AWR	2.8%	8.0%	3.7%	11.0%	6.6%
American Water Works Co Inc	AWK	2.5%	8.5%	3.7%	11.3%	6.3%
California Water Service Gp	CWT	2.7%	5.5%	3.7%	8.4%	6.5%
Essential Utilities, Inc.	WTRG	3.6%	6.5%	3.7%	10.3%	7.4%
Middlesex Water Co	MSEX	2.7%	4.5%	3.7%	7.3%	6.5%
H2O America	HTO	3.4%	4.0%	3.7%	7.6%	7.2%
Average		**3.0%**	**6.2%**	**3.7%**	**9.3%**	**6.8%**

[1] Dividend Yield from Exhibit DJG-4
[2] Forecasted dividend growth rates - Value Line
[3] Sustainable growth rate from Exhibit DJG-5
[4] Annual Compounding DCF = $D_0 (1 + g) / P_0 + g$ (using analyst growth rate)
[5] Annual Compounding DCF = $D_0 (1 + g) / P_0 + g$ (using sustainable growth rate)

CAPM - Risk-Free Rate Estimate

Date	Rate
01/13/26	4.83%
01/12/26	4.83%
01/09/26	4.82%
01/08/26	4.85%
01/07/26	4.82%
01/06/26	4.86%
01/05/26	4.85%
01/02/26	4.86%
12/31/25	4.84%
12/30/25	4.81%
12/29/25	4.80%
12/26/25	4.81%
12/24/25	4.79%
12/23/25	4.83%
12/22/25	4.84%
12/19/25	4.82%
12/18/25	4.80%
12/17/25	4.83%
12/16/25	4.82%
12/15/25	4.84%
12/12/25	4.85%
12/11/25	4.79%
12/10/25	4.78%
12/09/25	4.80%
12/08/25	4.81%
12/05/25	4.79%
12/04/25	4.76%
12/03/25	4.73%
12/02/25	4.74%
12/01/25	4.74%
Average	**4.81%**

*Daily Treasury Yield Curve Rates on 30-year T-bonds,
http://www.treasury.gov/resources-center/data-chart-center/interest-rates/

CAPM - Beta Coefficients

Company	Ticker	Beta
American States Water Co	AWR	0.75
American Water Works Co Inc	AWK	0.80
California Water Service Gp	CWT	0.80
Essential Utilities, Inc.	WTRG	0.80
Middlesex Water Co	MSEX	0.80
H2O America	HTO	0.75
Average		0.78

Value Line Betas from Value Line Investment Survey

CAPM - Implied Equity Risk Premium Estimate

Year	[1] Market Value	[2] Operating Earnings	[3] Dividends	[4] Buybacks	[5] Earnings Yield	[6] Dividend Yield	[7] Buyback Yield	[8] Gross Cash Yield
2014	18,245	1,004	350	553	5.50%	1.92%	3.03%	4.95%
2015	17,900	885	382	572	4.95%	2.14%	3.20%	5.33%
2016	19,268	920	397	536	4.77%	2.06%	2.78%	4.85%
2017	22,821	1,066	420	519	4.67%	1.84%	2.28%	4.12%
2018	21,027	1,282	456	806	6.10%	2.17%	3.84%	6.01%
2019	26,760	1,305	485	729	4.88%	1.81%	2.72%	4.54%
2020	31,659	1,019	480	520	3.22%	1.52%	1.64%	3.16%
2021	40,356	1,739	511	882	4.31%	1.27%	2.18%	3.45%
2022	32,133	1,656	565	923	5.15%	1.76%	2.87%	4.63%
2023	36,870	1,790	588	795	4.85%	1.60%	2.16%	3.75%
2024	49,805	1,968	630	943	3.95%	1.26%	1.89%	3.16%

Cash Yield	4.36%	[9]
Growth Rate	6.96%	[10]
Risk-free Rate	4.81%	[11]
Current Index Value	6,874	[12]

Year	[13] 1	[14] 2	[15] 3	[16] 4	[17] 5
Expected Dividends	320	343	367	392	419
Expected Terminal Value					8770
Present Value	292	284	277	269	5752
Intrinsic Index Value	6874	[18]			
Required Return on Market	9.8%	[19]			
Implied Equity Risk Premium	**5.0%**	[20]			

[1-4] S&P Quarterly Press Releases, data found at https://us.spindices.com/indices/equity/sp-500 (additional info tab) (all dollar figures are in $ billions)
[1] Market value of S&P 500
[5] = [2] / [1]
[6] = [3] / [1]
[7] = [4] / [1]
[8] = [6] + [7]
[9] = Average of [8]
[10] = Compund annual growth rate of [2] = (end value / beginning value)^ $^{1/10}$-1
[11] Risk-free rate from DJG risk-free rate exhibit
[12] 30-day average of closing index prices from DJG stock price exhibit
[13-16] Expected dividends = [9]*[12]*(1+[10])^{n} ; Present value = expected dividend / (1+[11]+[19])^{n}
[17] Expected terminal value = expected dividend * (1+[11]) / [19] ; Present value = (expected dividend + expected terminal value) / (1+[11]+[19])^{n}
[18] = Sum([13-17]) present values.
[19] = [20] + [11]
[20] Internal rate of return calculation setting [18] equal to [12] and solving for the discount rate

CAPM - Equity Risk Premium Results

IESE Business School Survey	5.5%	[1]
Kroll (Duff & Phelps) Report	5.0%	[2]
Damodaran (average)	4.4%	[3]
Garrett	5.0%	[4]
Average	**5.0%**	

CAPM - Final Results

Company	Ticker	[1] Beta	[2] CAPM Result
American States Water Co	AWR	0.75	8.6%
American Water Works Co Inc	AWK	0.80	8.8%
California Water Service Gp	CWT	0.80	8.8%
Essential Utilities, Inc.	WTRG	0.80	8.8%
Middlesex Water Co	MSEX	0.80	8.8%
H2O America	HTO	0.75	8.6%
Average			**8.7%**
Risk-free Rate	[3]	4.8%	
Equity Risk Premium	[4]	5.0%	

[1] From Exhibit DJG-8

[2] = [3] + [1] * [4]

[3] From Exhibit DJG-7

[4] From Exhibit DJG-10

Cost of Equity Summary

Model	Cost of Equity
Capital Asset Pricing Model	8.7%
DCF Model (Analyst Growth)	9.3%
DCF Model (Sustainable Growth)	6.8%
Model Average	8.3%
Recommended ROE	**8.7%**

Final Rate of Return Recommendation

Water Operations

Capital Component	Proposed Ratio	Cost Rate	Weighted Cost
Long-term Debt	43.7%	4.71%	2.06%
Common Equity	56.3%	8.70%	4.90%
Total	100.0%		6.96%

Wastewater Operations

Capital Component	Proposed Ratio	Cost Rate	Weighted Cost
Long-term Debt	41.6%	4.71%	1.96%
WW-Specific LTD	6.88%	2.20%	0.15%
Common Equity	51.5%	8.70%	4.48%
Total	100.0%		6.59%

Summary Rate and Accrual Adjustment

2025 DEPRECIATION STUDY

Plant Operations	Plant 6/30/2025	PAWC Position Rate	PAWC Position Annual Accrual	OCA Position Rate	OCA Position Annual Accrual	OCA Adjustment Rate	OCA Adjustment Annual Accrual
Water Operations	$ 6,992,541,594	2.73%	$ 190,896,455	2.20%	$ 154,040,446	-0.53%	$ (36,856,009)
Wastewater Sanitary Sewer System (SSS)	950,534,878	2.81%	26,745,064	2.17%	20,638,871	-0.64%	(6,106,193)
Butler Area Sewer Authority (BASA)	216,442,587	5.02%	10,875,378	3.27%	7,071,721	-1.76%	(3,803,657)
Wastewater Combined Sewer System (CSS)	860,956,397	2.21%	19,043,262	1.82%	15,662,376	-0.39%	(3,380,886)
TOTAL PLANT STUDIED	**$ 9,020,475,456**	**2.74%**	**$ 247,560,159**	**2.19%**	**$ 197,413,414**	**-0.56%**	**$ (50,146,745)**

2026 DEPRECIATION STUDY

Plant Operations	Plant 6/30/2026	Lancaster Position Rate	Lancaster Position Annual Accrual	OCA Position Rate	OCA Position Annual Accrual	OCA Adjustment Rate	OCA Adjustment Annual Accrual
Water Operations	$ 7,377,544,075	2.64%	$ 194,622,280	2.14%	$ 157,589,083	-0.50%	$ (37,033,197)
Wastewater Sanitary Sewer System (SSS)	969,876,030	2.72%	26,421,463	2.13%	20,632,278	-0.60%	(5,789,185)
Butler Area Sewer Authority (BASA)	220,462,501	4.86%	10,716,015	3.10%	6,833,684	-1.76%	(3,882,331)
Wastewater Combined Sewer System (CSS)	877,353,456	2.16%	18,983,484	1.81%	15,870,260	-0.35%	(3,113,224)
Elizabeth Borough Wastewater	26,630,061	4.00%	1,064,881	2.75%	732,425	-1.25%	(332,456)
TOTAL PLANT STUDIED	**$ 9,471,866,123**	**2.66%**	**$ 251,808,123**	**2.13%**	**$ 201,657,731**	**-0.53%**	**$ (50,150,392)**

2027 DEPRECIATION STUDY

Plant Operations	Plant 6/30/2027	Lancaster Position Rate	Lancaster Position Annual Accrual	OCA Position Rate	OCA Position Annual Accrual	OCA Adjustment Rate	OCA Adjustment Annual Accrual
Water Operations	$ 7,870,892,434	2.59%	$ 204,148,039	2.12%	$ 167,195,229	-0.47%	$ (36,952,810)
Wastewater Sanitary Sewer System (SSS)	1,009,133,906	2.67%	26,943,479	2.10%	21,141,801	-0.57%	(5,801,678)
Butler Area Sewer Authority (BASA)	258,932,616	4.36%	11,299,118	2.87%	7,431,909	-1.49%	(3,867,209)
Wastewater Combined Sewer System (CSS)	919,949,031	2.13%	19,602,347	1.81%	16,619,156	-0.32%	(2,983,191)
Elizabeth Borough Wastewater	28,013,222	3.70%	1,035,500	2.65%	742,790	-1.04%	(292,710)
TOTAL PLANT STUDIED	**$ 10,086,921,209**	**2.61%**	**$ 263,028,483**	**2.11%**	**$ 213,130,885**	**-0.49%**	**$ (49,897,598)**

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2025	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
	Water Operations							
303.14	WATER RIGHTS - HIBERNIA	1,942,823	0.00%	0	0.00%	0	0.00%	0
303.35	WASTE HANDLING AND TREATMENT LAND	155,025	0.95%	1,469	0.22%	340	-0.73%	-1,129
303.99	COMPREHENSIVE PLANNING STUDIES	15,016,673	17.54%	2,634,187	17.77%	2,668,093	0.23%	33,906
304.15	OTHER WATER SOURCE STRUCTURES	123,441,839	2.87%	3,537,013	2.06%	2,546,015	-0.81%	-990,998
304.20	POWER AND PUMING STRUCTURES							
	LARGE STRUCTURES	56,902,089	2.99%	1,703,178	1.39%	790,434	-1.60%	-912,744
	OTHER STRUCTURES	76,998,499	2.65%	2,040,014	2.10%	1,616,202	-0.55%	-423,812
	TOTAL ACCOUNT 304.20	133,900,588	2.80%	3,743,192	1.80%	2,406,637	-1.00%	-1,336,555
304.30	PURIFICATION BUILDINGS							
	LARGE STRUCTURES	359,356,537	2.52%	9,062,538	1.60%	5,753,282	-0.92%	-3,309,256
	OTHER STRUCTURES	72,988,764	1.84%	1,341,037	1.61%	1,178,422	-0.23%	-162,615
	TOTAL ACCOUNT 304.30	432,345,301	2.41%	10,403,575	1.60%	6,931,704	-0.80%	-3,471,871
304.36	WASTE HANDLING AND TREATMENT STRUCTURES	28,441,582	3.64%	1,034,372	1.72%	489,636	-1.92%	-544,736
304.38	WASTE HANDLING AND TREATMENT STRUCTURES PAINTING	1,403,439	9.40%	131,911	9.40%	131,911	0.00%	0
304.39	PURIFICATION BUILDINGS - TANK PAINTING	968,752	8.70%	84,276	8.70%	84,276	0.00%	0
304.61	OFFICE BUILDINGS							
	LARGE STRUCTURES	29,028,974	3.70%	1,073,520	1.56%	452,453	-2.14%	-621,067
	OTHER OTHER STRUCTURES	14,996,301	2.25%	337,561	1.98%	296,425	-0.27%	-41,136
	TOTAL ACCOUNT 304.61	44,025,275	3.21%	1,411,081	1.70%	748,878	-1.50%	-662,203
304.62	STORES, SHOP AND GARAGE BUILDINGS							
	LARGE STRUCTURES	59,397,332	2.39%	1,422,158	1.45%	863,504	-0.94%	-558,654
	OTHER OTHER STRUCTURES	9,322,958	1.59%	148,061	1.71%	159,418	0.12%	11,357
	TOTAL ACCOUNT 304.62	68,720,290	2.28%	1,570,219	1.49%	1,022,922	-0.80%	-547,297
304.65	MISCELLANEOUS STRUCTURES AND IMPROVEMENTS	5,101,932	0.41%	20,674	0.35%	18,072	-0.06%	-2,602
305.00	COLLECTING AND IMPOUNDING RESERVOIRS							
	LARGE RESERVOIRS	141,430,066	1.43%	2,024,922	1.43%	2,025,122	0.00%	200
	OTHER RESERVOIRS	13,870,315	1.78%	247,339	1.39%	193,348	-0.39%	-53,991
	TOTAL ACCOUNT 305.00	155,300,381	1.46%	2,272,261	1.43%	2,218,470	-0.03%	-53,791
306.00	LAKE, RIVER AND OTHER INTAKES							
	LARGE RESERVOIRS	12,329,112	2.29%	282,915	1.88%	231,763	-0.41%	-51,152
	OTHER RESERVOIRS	5,495,248	2.53%	139,287	1.96%	107,831	-0.57%	-31,456
	TOTAL ACCOUNT 306.00	17,824,361	2.37%	422,202	1.91%	339,594	-0.46%	-82,608

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2025	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
307.00	WELLS AND SPRINGS	12,806,671	2.16%	276,505	1.63%	208,724	-0.53%	-67,781
310.00	POWER GENERATION EQUIPMENT	26,827,156	2.63%	706,792	1.99%	533,071	-0.64%	-173,721
	PUMPING EQUIPMENT							
311.20	ELECTRIC PUMPING EQUIPMENT	17,440,625	3.25%	566,011	2.36%	412,377	-0.89%	-153,634
311.50	OTHER	26,945,408	3.83%	1,031,491	2.49%	672,154	-1.34%	-359,337
311.52	SOURCE OF SUPPLY	11,405,625	3.24%	369,708	2.36%	268,933	-0.88%	-100,775
311.53	WATER TREATMENT	48,154,022	2.78%	1,339,347	2.29%	1,104,034	-0.49%	-235,313
311.54	TRANSMISSION AND DISTRIBUTION	9,832,787	3.30%	324,570	2.39%	234,546	-0.91%	-90,024
	TOTAL ACCOUNT 311.00	113,778,467	3.19%	3,631,127	2.37%	2,692,044	-0.83%	-939,083
	PURIFICATION SYSTEM							
320.10	LARGE STRUCTURES	224,431,803	2.50%	5,610,552	1.73%	3,881,270	-0.77%	-1,729,282
320.11	OTHER LARGE STRUCTURES	15,760,524	1.92%	303,080	1.93%	303,505	0.01%	425
	TOTAL ACCOUNT 320.10	240,192,327	2.46%	5,913,632	1.74%	4,184,775	-0.72%	-1,728,857
	ACCOUNT 320.00							
320.18	LARGE STRUCTURES PAINT	103,246	0.00%	0	0.00%	0	0.00%	0
320.19	LARGE STRUCTURES PAINT	4,370,191	3.65%	159,320	3.62%	158,381	-0.03%	-939
320.20	CHEMICAL TREATMENT	161,589,797	3.76%	6,079,491	2.15%	3,467,701	-1.61%	-2,611,790
320.29	CHEMICAL TREATMENT PAINT	8,168	0.00%	0	0.00%	0	0.00%	0
320.30	GRANULAR ACTIVATED CARBON	24,011,056	12.78%	3,069,342	8.76%	2,102,384	-4.02%	-966,958
320.37	WASTE HANDLING AND TREATMENT - EQUIPMENT	15,642,496	2.14%	334,581	2.59%	404,621	0.45%	70,040
	TOTAL ACCOUNT 320.00	205,724,954	4.69%	9,642,734	2.98%	6,133,087	-1.71%	-3,509,647
	ACCOUNT 330.00							
330.00	DISTRIBUTION RESERVOIRS AND STANDPIPES	129,552,398	1.74%	2,257,155	1.36%	1,759,440	-0.38%	-497,715
330.10	ELEVATED TANKS AND STANDPIPES	17,524,082	2.00%	351,099	1.45%	254,839	-0.55%	-96,260
330.20	GROUND LEVEL FACILITIES	19,120,765	1.96%	375,200	1.44%	274,743	-0.52%	-100,457
330.30	BELOW GRADE FACILITIES	818,707	1.91%	15,615	1.41%	11,563	-0.50%	-4,052
330.40	CLEARWELL	13,078,109	1.89%	246,573	1.40%	183,411	-0.49%	-63,162
330.58	DISTRIBUTION RESERVOIRS AND STANDPIPES - PAINTING	2,918,574	2.45%	71,372	2.44%	71,249	-0.01%	-123
330.59	DISTRIBUTION RESERVOIRS AND STANDPIPES - PAINTING	44,191,417	4.56%	2,014,038	4.56%	2,013,896	0.00%	-142
	TOTAL ACCOUNT 330.00	227,204,053	2.35%	5,331,052	2.01%	4,569,141	-0.34%	-761,911
331.00	MAINS AND ACCESSORIES	3,547,739,831	1.52%	53,942,094	1.15%	40,895,652	-0.37%	-13,046,442
333.00	SERVICES	793,947,064	1.89%	15,002,077	1.55%	12,320,991	-0.34%	-2,681,086
334.00	METERS AND METER INSTALLATIONS	275,985,838	6.73%	18,582,093	5.02%	13,843,893	-1.71%	-4,738,200
335.00	FIRE HYDRANTS	160,377,896	2.27%	3,644,920	1.74%	2,791,873	-0.53%	-853,047
340.00	OFFICE FURNITURE AND EQUIPMENT							
	FURNITURE	10,036,437	6.25%	627,208	6.24%	625,985	-0.01%	-1,223

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2025	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
	COMPUTERS AND PERIPHERAL EQUIPMENT	20,853,007	27.93%	5,824,535	28.06%	5,851,698	0.13%	27,163
	COMPUTER SOFTWARE	93,058,716	28.08%	26,134,104	28.03%	26,079,758	-0.05%	-54,346
	COMPUTER SOFTWARE - ENTERPRISE SOLUTIONS	696,707	13.76%	95,848	13.76%	95,848	0.00%	0
	OTHER OFFICE EQUIPMENT	181,996	24.34%	44,295	24.30%	44,230	-0.04%	-65
	TOTAL ACCOUNT 340.00	124,826,864	26.22%	32,725,990	26.19%	32,697,518	-0.02%	-28,472
341.00	TRANSPORATION EQUIPMENT							
	NOT CLASSIFIED	38,598	11.43%	4,410	9.57%	3,694	-1.86%	-716
	LIGHT DUTY TRUCKS	76,802,269	7.80%	5,987,995	6.94%	5,333,323	-0.86%	-654,672
	EQUIPMENT	15,276,635	1.61%	245,312	1.43%	218,248	-0.18%	-27,064
	AUTOS	2,022,390	0.00%	0	0.00%	0	0.00%	0
	OTHER	7,642,782	1.41%	107,639	1.59%	121,875	0.18%	14,236
	TOTAL ACCOUNT 341.00	101,782,675	6.23%	6,345,356	5.58%	5,677,140	-0.66%	-668,216
342.00	STORES EQUIPMENT	470,568	6.25%	29,413	6.25%	29,391	0.00%	-22
343.00	TOOLS AND WORK EQUIPMENT	75,331,547	5.43%	4,087,149	5.44%	4,097,150	0.01%	10,001
344.00	LABORATORY EQUIPMENT	2,547,013	10.42%	265,337	10.47%	266,574	0.05%	1,237
345.00	POWER OPERATED EQUIPMENT	3,021,112	4.46%	134,599	4.03%	121,797	-0.43%	-12,802
346.00	COMUNICATION EQUIPMENT							
	EQUIPMENT	5,523,677	7.00%	386,795	7.02%	387,581	0.02%	786
	NON-TELEPHONE	10,938,619	7.21%	788,976	7.21%	788,715	0.00%	-261
	REMOTE CONTROL AND INSTRUMENTATION	5,743,663	12.42%	713,350	12.49%	717,584	0.07%	4,234
	TELEPHONE	223,455	13.02%	29,085	13.13%	29,332	0.11%	247
	TOTAL ACCOUNT 346.00	22,429,414	8.55%	1,918,206	8.57%	1,923,213	0.02%	5,007
347.00	MISCELLANEOUS EQUIPMENT	28,164,309	5.04%	1,418,552	5.03%	1,415,505	-0.01%	-3,047
348.00	OTHER TANGIBLE EQUIPMENT	795,575	4.07%	32,395	4.07%	32,359	0.00%	-36
	Total Water Operations	6,992,541,594	2.73%	190,896,455	2.20%	154,040,446	-0.53%	-36,856,009
	Wastewater Sanitary Sewer System (SSS)							
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	12,016,749	2.68%	322,525	2.30%	276,956	-0.38%	-45,569
354.30	STRUCTURES AND IMPROVEMENTS - SPP	28,946,012	2.36%	683,290	1.69%	489,125	-0.67%	-194,165
354.40	STRUCTURES AND IMPROVEMENTS - TDP	296,544,707	2.53%	7,500,160	1.95%	5,778,204	-0.58%	-1,721,956
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	7,871,326	2.95%	231,944	2.39%	187,760	-0.56%	-44,184
355.00	POWER GENERATION EQUIPMENT	6,988,714	2.42%	169,256	1.99%	138,803	-0.43%	-30,453
360.10	COLLECTION SEWERS - FORCE MAINS	45,008,591	1.65%	740,989	1.41%	635,285	-0.24%	-105,704
361.10	COLLECTION SEWERS - GRAVITY MAINS	246,456,920	1.68%	4,149,199	1.37%	3,371,362	-0.31%	-777,837
361.20	MANHOLES	46,678,363	4.41%	2,057,424	2.61%	1,217,347	-1.80%	-840,077
363.00	SERVICES	59,642,112	3.28%	1,955,201	2.31%	1,377,477	-0.97%	-577,724

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2025	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
364.00	FLOW MEASURING DEVICES	724,745	6.50%	47,107	5.23%	37,932	-1.27%	-9,175
365.00	FLOW MEASURING INSTALLATIONS	272,564	0.01%	14	0.01%	35	0.00%	21
370.00	RECEIVING WELLS	677,388	2.41%	16,335	2.10%	14,212	-0.31%	-2,123
371.00	PUMPING EQUIPMENT	19,996,811	4.72%	943,896	3.44%	688,864	-1.28%	-255,032
380.00	TREATMENT EQUIPMENT	151,351,732	4.26%	6,446,355	3.32%	5,023,841	-0.94%	-1,422,514
381.00	PLANT SEWERS	6,624,603	2.29%	151,800	2.01%	133,140	-0.28%	-18,660
382.00	OUTFALL SEWER LINES	626,996	2.15%	13,453	1.91%	11,977	-0.24%	-1,476
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT - INTANGIBLES	2,659,061	5.16%	137,088	4.74%	126,060	-0.42%	-11,028
390.00	OFFICE FURNITURE AND EQUIPMENT	3,637,908	5.26%	191,320	5.21%	189,466	-0.05%	-1,854
391.00	TRANSPORTATION EQUIPMENT	4,736,844	8.30%	393,189	7.35%	348,356	-0.95%	-44,833
392.00	STORES EQUIPMENT	107,351	4.11%	4,410	4.10%	4,405	-0.01%	-5
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	1,532,894	5.13%	78,639	5.13%	78,688	0.00%	49
394.00	LABORATORY EQUIPMENT	879,511	11.10%	97,637	11.03%	97,006	-0.07%	-631
395.00	POWER OPERATED EQUIPMENT	427,100	3.02%	12,895	2.73%	11,663	-0.29%	-1,232
396.00	COMMUNICATION EQUIPMENT	4,254,549	6.86%	291,824	6.86%	292,006	0.00%	182
397.00	MISCELLANEOUS EQUIPMENT	1,857,094	5.84%	108,488	5.83%	108,275	-0.01%	-213
398.00	OTHER TANGIBLE PLANT	14,232	4.40%	626	4.40%	626	0.00%	0
	Total Wastewater Sanitary Sewer System	950,534,878	2.81%	26,745,064	2.17%	20,638,871	-0.64%	-6,106,193
	Butler Area Sewer Authority (BASA)							
354.30	STRUCTURES AND IMPROVEMENTS - SPP	36,968,125	3.23%	1,192,561	2.29%	846,257	-0.94%	-346,304
354.40	STRUCTURES AND IMPROVEMENTS - TDP	17,268,436	4.35%	751,849	3.49%	603,239	-0.86%	-148,610
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	7,450,765	3.27%	243,822	2.32%	173,131	-0.95%	-70,691
355.00	POWER GENERATING EQUIPMENT	1,312,066	5.52%	72,468	4.26%	55,850	-1.26%	-16,618
360.10	COLLECTION SEWERS - FORCE MAINS	8,434,800	2.61%	220,423	2.09%	175,925	-0.52%	-44,498
361.10	COLLECTION SEWERS - GRAVITY MAINS	85,669,774	3.28%	2,806,043	2.38%	2,036,777	-0.90%	-769,266
361.20	MANHOLES	12,203,899	9.73%	1,187,438	5.13%	625,630	-4.60%	-561,808
363.00	SERVICES	11,834,905	11.56%	1,368,526	5.15%	609,033	-6.41%	-759,493
364.00	FLOW MEASURING DEVICES	237,618	31.50%	74,848	20.56%	48,848	-10.94%	-26,000
371.00	PUMPING EQUIPMENT	6,701,216	8.38%	561,629	5.50%	368,872	-2.88%	-192,757
380.00	TREATMENT EQUIPMENT	25,360,724	8.32%	2,110,499	5.12%	1,297,602	-3.20%	-812,897
382.00	OUTFALL SEWER LINES	73,525	16.99%	12,493	15.64%	11,500	-1.35%	-993
390.00	OFFICE FURNITURE AND EQUIPMENT	280,503	5.32%	14,913	5.32%	14,910	0.00%	-3
391.00	TRANSPORTATION EQUIPMENT	673,949	14.41%	97,087	9.58%	64,569	-4.83%	-32,518
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	305,791	4.95%	15,149	4.95%	15,126	0.00%	-23
395.00	POWER OPERATED EQUIPMENT	651,788	9.30%	60,589	6.02%	39,233	-3.28%	-21,356
396.00	COMMUNICATION EQUIPMENT	938,448	8.50%	79,740	8.52%	79,920	0.02%	180
397.00	MISCELLANEOUS EQUIPMENT	76,253	6.95%	5,301	6.95%	5,301	0.00%	0
	Total Butler Area Sewer Authority	216,442,587	5.02%	10,875,378	3.27%	7,071,721	-1.76%	-3,803,657

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2025	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
	Wastewater Combined Sewer System (CSS)							
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	44,336,603	2.57%	1,137,703	2.20%	976,158	-0.37%	-161,545
354.30	STRUCTURES AND IMPROVEMENTS - SPP	25,842,327	2.20%	568,045	1.61%	416,556	-0.59%	-151,489
354.40	STRUCTURES AND IMPROVEMENTS - TDP	134,343,428	1.88%	2,525,945	1.48%	1,983,812	-0.40%	-542,133
355.00	POWER GENERATING EQUIPMENT	3,221,470	3.88%	124,896	2.79%	89,835	-1.09%	-35,061
360.10	COLLECTION SEWERS - FORCE MAINS	17,527,772	1.56%	274,123	1.34%	234,837	-0.22%	-39,286
361.10	COLLECTION SEWERS - GRAVITY MAINS	426,548,529	1.40%	5,950,577	1.19%	5,068,203	-0.21%	-882,374
361.20	MANHOLES	45,588,029	3.91%	1,783,041	2.45%	1,118,143	-1.46%	-664,898
363.00	SERVICES	17,729,986	2.78%	493,646	2.23%	395,153	-0.55%	-98,493
364.00	FLOW MEASURING DEVICES	2,607,930	8.14%	212,228	6.38%	166,419	-1.76%	-45,809
371.00	PUMPING EQUIPMENT	17,941,888	4.00%	717,245	3.07%	551,365	-0.93%	-165,880
380.00	TREATMENT EQUIPMENT	83,722,295	3.34%	2,797,255	2.80%	2,344,180	-0.54%	-453,075
381.00	PLANT SEWERS	1,576,345	1.96%	30,869	1.75%	27,629	-0.21%	-3,240
382.00	OUTFALL SEWER LINES	499,404	2.16%	10,804	1.87%	9,356	-0.29%	-1,448
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT	10,813,551	5.79%	625,975	5.01%	541,822	-0.78%	-84,153
390.00	OFFICE FURNITURE AND EQUIPMENT	4,194,872	5.52%	231,691	5.38%	225,497	-0.14%	-6,194
391.00	TRANSPORTATION EQUIPMENT	10,425,804	7.36%	767,106	6.91%	720,536	-0.45%	-46,570
392.00	STORES EQUIPMENT	176,309	4.17%	7,353	4.18%	7,366	0.01%	13
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	5,300,165	4.86%	257,527	4.87%	257,933	0.01%	406
394.00	LABORATORY EQUIPMENT	451,557	3.04%	13,718	3.03%	13,695	-0.01%	-23
395.00	POWER OPERATED EQUIPMENT	2,309,684	4.27%	98,691	4.26%	98,445	-0.01%	-246
396.00	COMMUNICATION EQUIPMENT	2,954,453	7.37%	217,730	7.38%	217,920	0.01%	190
397.00	MISCELLANEOUS EQUIPMENT	2,843,995	6.93%	197,094	6.94%	197,514	0.01%	420
	Total Wastewater Combined Sewer System	860,956,397	2.21%	19,043,262	1.82%	15,662,376	-0.39%	-3,380,886
	TOTAL PLANT STUDIED	**9,020,475,456**	**2.74%**	**247,560,159**	**2.19%**	**197,413,414**	**-0.56%**	**-50,146,745**

[1], [2] From Company depreciation study

[3] From Exhibit DJG-19

[4] = [3] - [2]

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2025	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
	Water Operations								
303.14	WATER RIGHTS - HIBERNIA	1,942,823	SQ	25	1,942,823	0			
303.35	WASTE HANDLING AND TREATMENT LAND	155,025	R3	100	131,860	23,165	68.15	340	0.22%
303.99	COMPREHENSIVE PLANNING STUDIES	15,016,673	SQ	5	8,880,058	6,136,615	2.30	2,668,093	17.77%
304.15	OTHER WATER SOURCE STRUCTURES	123,441,839	S0.5	50	11,111,635	112,330,204	44.12	2,546,015	2.06%
304.20	POWER AND PUMING STRUCTURES								
	LARGE STRUCTURES	56,902,089	S0.5	75	8,685,597	48,216,492	61.00	790,434	1.39%
	OTHER STRUCTURES	76,998,499	R3	55	8,956,383	68,042,116	42.10	1,616,202	2.10%
	TOTAL ACCOUNT 304.20	133,900,588			17,641,980	116,258,608	48.31	2,406,637	1.80%
304.30	PURIFICATION BUILDINGS								
	LARGE STRUCTURES	359,356,537	S1	55	114,899,600	244,456,937	42.49	5,753,282	1.60%
	OTHER STRUCTURES	72,988,764	R3	60	15,269,651	57,719,113	48.98	1,178,422	1.61%
	TOTAL ACCOUNT 304.30	432,345,301			130,169,251	302,176,050	43.59	6,931,704	1.60%
304.36	WASTE HANDLING AND TREATMENT STRUCTURES	28,441,582	S1	55	7,744,675	20,696,907	42.27	489,636	1.72%
304.38	WASTE HANDLING AND TREATMENT STRUCTURES PAINTING	1,403,439	SQ	10	611,973	791,466	6.00	131,911	9.40%
304.39	PURIFICATION BUILDINGS - TANK PAINTING	968,752	SQ	10	294,546	674,206	8.00	84,276	8.70%
304.61	OFFICE BUILDINGS								
	LARGE STRUCTURES	29,028,974	S0	55	7,836,073	21,192,901	46.84	452,453	1.56%
	OTHER OTHER STRUCTURES	14,996,301	R3	50	4,307,217	10,689,084	36.06	296,425	1.98%
	TOTAL ACCOUNT 304.61	44,025,275			12,143,290	31,881,985	42.57	748,878	1.70%
304.62	STORES, SHOP AND GARAGE BUILDINGS								
	LARGE STRUCTURES	59,397,332	S0.5	55	18,838,567	40,558,765	46.97	863,504	1.45%
	OTHER OTHER STRUCTURES	9,322,958	R3	45	4,449,540	4,873,418	30.57	159,418	1.71%
	TOTAL ACCOUNT 304.62	68,720,290			23,288,107	45,432,183	44.41	1,022,922	1.49%
304.65	MISCELLANEOUS STRUCTURES AND IMPROVEMENTS	5,101,932	S0.5	35	4,606,571	495,361	27.41	18,072	0.35%
305.00	COLLECTING AND IMPOUNDING RESERVOIRS								
	LARGE RESERVOIRS	141,430,066	R2	130	20,732,787	120,697,279	59.60	2,025,122	1.43%
	OTHER RESERVOIRS	13,870,315	R3	75	3,245,844	10,624,471	54.95	193,348	1.39%
	TOTAL ACCOUNT 305.00	155,300,381			23,978,631	131,321,750	59.19	2,218,470	1.43%
306.00	LAKE, RIVER AND OTHER INTAKES								
	LARGE RESERVOIRS	12,329,112	S1.5	55	5,313,633	7,015,479	30.27	231,763	1.88%
	OTHER RESERVOIRS	5,495,248	S0.5	50	1,882,918	3,612,330	33.50	107,831	1.96%
	TOTAL ACCOUNT 306.00	17,824,361			7,196,551	10,627,810	31.30	339,594	1.91%

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2025	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
307.00	WELLS AND SPRINGS	12,806,671	S0	55	4,610,082	8,196,589	39.27	208,724	1.63%
310.00	POWER GENERATION EQUIPMENT	26,827,156	S0.5	45	7,450,040	19,377,116	36.35	533,071	1.99%
	PUMPING EQUIPMENT								
311.20	ELECTRIC PUMPING EQUIPMENT	17,440,625	S0	39	4,871,360	12,569,265	30.48	412,377	2.36%
311.50	OTHER	26,945,408	S0	39	2,512,607	24,432,801	36.35	672,154	2.49%
311.52	SOURCE OF SUPPLY	11,405,625	S0	39	3,076,779	8,328,846	30.97	268,933	2.36%
311.53	WATER TREATMENT	48,154,022	S0	39	25,951,902	22,202,120	20.11	1,104,034	2.29%
311.54	TRANSMISSION AND DISTRIBUTION	9,832,787	S0	39	2,655,682	7,177,105	30.60	234,546	2.39%
	TOTAL ACCOUNT 311.00	113,778,467			39,068,330	74,710,137	27.75	2,692,044	2.37%
	PURIFICATION SYSTEM								
320.10	LARGE STRUCTURES	224,431,803	S1	50	93,400,131	131,031,672	33.76	3,881,270	1.73%
320.11	OTHER LARGE STRUCTURES	15,760,524	R3	55	5,532,416	10,228,108	33.70	303,505	1.93%
	TOTAL ACCOUNT 320.10	240,192,327			98,932,547	141,259,780	33.76	4,184,775	1.74%
	ACCOUNT 320.00								
320.18	LARGE STRUCTURES PAINT	103,246	SQ	10	103,246	0			
320.19	LARGE STRUCTURES PAINT	4,370,191	SQ	10	3,277,360	1,092,831	6.90	158,381	3.62%
320.20	CHEMICAL TREATMENT	161,589,797	R0.5	42	37,203,361	124,386,436	35.87	3,467,701	2.15%
320.29	CHEMICAL TREATMENT PAINT	8,168			8,168	0			
320.30	GRANULAR ACTIVATED CARBON	24,011,056	L0.5	11	7,023,790	16,987,266	8.08	2,102,384	8.76%
320.37	WASTE HANDLING AND TREATMENT - EQUIPMENT	15,642,496	R3	30	10,576,647	5,065,849	12.52	404,621	2.59%
	TOTAL ACCOUNT 320.00	205,724,954			58,192,572	147,532,382	24.06	6,133,087	2.98%
	ACCOUNT 330.00								
330.00	DISTRIBUTION RESERVOIRS AND STANDPIPES	129,552,398	S0.5	65	45,891,024	83,661,374	47.55	1,759,440	1.36%
330.10	ELEVATED TANKS AND STANDPIPES	17,524,082	S0.5	65	2,937,094	14,586,988	57.24	254,839	1.45%
330.20	GROUND LEVEL FACILITIES	19,120,765	S0.5	65	3,757,146	15,363,619	55.92	274,743	1.44%
330.30	BELOW GRADE FACILITIES	818,707	S0.5	65	195,228	623,479	53.92	11,563	1.41%
330.40	CLEARWELL	13,078,109	S0.5	65	3,337,128	9,740,981	53.11	183,411	1.40%
330.58	DISTRIBUTION RESERVOIRS AND STANDPIPES - PAINTING	2,918,574	SQ	10	2,298,707	619,867	8.70	71,249	2.44%
330.59	DISTRIBUTION RESERVOIRS AND STANDPIPES - PAINTING	44,191,417	SQ	10	32,712,210	11,479,207	5.70	2,013,896	4.56%
	TOTAL ACCOUNT 330.00	227,204,053			91,128,537	136,075,516	29.78	4,569,141	2.01%
331.00	MAINS AND ACCESSORIES	3,547,739,831	R2	90	388,550,701	3,159,189,130	77.25	40,895,652	1.15%
333.00	SERVICES	793,947,064	R2.5	65	169,642,467	624,304,597	50.67	12,320,991	1.55%
334.00	METERS AND METER INSTALLATIONS	275,985,838	L1.5	20	74,141,878	201,843,960	14.58	13,843,893	5.02%
335.00	FIRE HYDRANTS	160,377,896	R2	60	22,934,002	137,443,894	49.23	2,791,873	1.74%
340.00	OFFICE FURNITURE AND EQUIPMENT								
	FURNITURE	10,036,437	SQ	20	1,961,233	8,075,204	12.90	625,985	6.24%

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2025	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
	COMPUTERS AND PERIPHERAL EQUIPMENT	20,853,007	SQ	5	6,223,762	14,629,245	2.50	5,851,698	28.06%
	COMPUTER SOFTWARE	93,058,716	SQ	5	27,859,322	65,199,394	2.50	26,079,758	28.03%
	COMPUTER SOFTWARE - ENTERPRISE SOLUTIONS	696,707	SQ	10	409,163	287,544	3.00	95,848	13.76%
	OTHER OFFICE EQUIPMENT	181,996	SQ	10	97,960	84,036	1.90	44,230	24.30%
	TOTAL ACCOUNT 340.00	124,826,864			36,551,440	88,275,424	2.70	32,697,518	26.19%
341.00	TRANSPORATION EQUIPMENT								
	NOT CLASSIFIED	38,598	L2.5	10	3,470	35,128	9.51	3,694	9.57%
	LIGHT DUTY TRUCKS	76,802,269	L2.5	10	40,802,341	35,999,928	6.75	5,333,323	6.94%
	EQUIPMENT	15,276,635	L2.5	10	14,316,342	960,293	4.40	218,248	1.43%
	AUTOS	2,022,390	L2.5	10	2,022,390	0			
	OTHER	7,642,782	L2.5	10	7,087,034	555,748	4.56	121,875	1.59%
	TOTAL ACCOUNT 341.00	101,782,675			64,231,577	37,551,098	6.61	5,677,140	5.58%
342.00	STORES EQUIPMENT	470,568	SQ	20	126,699	343,869	11.70	29,391	6.25%
343.00	TOOLS AND WORK EQUIPMENT	75,331,547	SQ	20	15,103,437	60,228,110	14.70	4,097,150	5.44%
344.00	LABORATORY EQUIPMENT	2,547,013	SQ	20	601,021	1,945,992	7.30	266,574	10.47%
345.00	POWER OPERATED EQUIPMENT	3,021,112	S0.5	21	1,577,820	1,443,292	11.85	121,797	4.03%
346.00	COMUNICATION EQUIPMENT								
	EQUIPMENT	5,523,677	SQ	15	872,699	4,650,978	12.00	387,581	7.02%
	NON-TELEPHONE	10,938,619	SQ	15	2,657,115	8,281,504	10.50	788,715	7.21%
	REMOTE CONTROL AND INSTRUMENTATION	5,743,663	SQ	10	2,299,258	3,444,405	4.80	717,584	12.49%
	TELEPHONE	223,455	SQ	10	126,659	96,796	3.30	29,332	13.13%
	TOTAL ACCOUNT 346.00	22,429,414			5,955,731	16,473,683	8.57	1,923,213	8.57%
347.00	MISCELLANEOUS EQUIPMENT	28,164,309	SQ	25	6,507,077	21,657,232	15.30	1,415,505	5.03%
348.00	OTHER TANGIBLE EQUIPMENT	795,575	SQ	25	543,172	252,403	7.80	32,359	4.07%
	Total Water Operations	6,992,541,594			1,335,591,081	5,656,950,513	36.72	154,040,446	2.20%
	Wastewater Sanitary Sewer System (SSS)								
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	12,016,749	R3	45	312,584	11,704,165	42.26	276,956	2.30%
354.30	STRUCTURES AND IMPROVEMENTS - SPP	28,946,012	S0	55	7,370,714	21,575,298	44.11	489,125	1.69%
354.40	STRUCTURES AND IMPROVEMENTS - TDP	296,544,707	S0	55	94,423,146	202,121,561	34.98	5,778,204	1.95%
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	7,871,326	S1	35	2,157,788	5,713,538	30.43	187,760	2.39%
355.00	POWER GENERATION EQUIPMENT	6,988,714	S0.5	35	3,626,914	3,361,800	24.22	138,803	1.99%
360.10	COLLECTION SEWERS - FORCE MAINS	45,008,591	R3	75	7,107,476	37,901,116	59.66	635,285	1.41%
361.10	COLLECTION SEWERS - GRAVITY MAINS	246,456,920	R2.5	80	51,794,484	194,662,436	57.74	3,371,362	1.37%
361.20	MANHOLES	46,678,363	S2.5	50	13,274,354	33,404,009	27.44	1,217,347	2.61%
363.00	SERVICES	59,642,112	R3	47	26,169,414	33,472,698	24.30	1,377,477	2.31%

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2025	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
364.00	FLOW MEASURING DEVICES	724,745	L2.5	15	464,534	260,211	6.86	37,932	5.23%
365.00	FLOW MEASURING INSTALLATIONS	272,564	S2	25	272,428	136	3.89	35	0.01%
370.00	RECEIVING WELLS	677,388	R3	50	73,795	603,594	42.47	14,212	2.10%
371.00	PUMPING EQUIPMENT	19,996,811	S0.5	30	3,532,970	16,463,841	23.90	688,864	3.44%
380.00	TREATMENT EQUIPMENT	151,351,732	S1.5	35	31,734,072	119,617,660	23.81	5,023,841	3.32%
381.00	PLANT SEWERS	6,624,603	R3	50	1,844,887	4,779,717	35.90	133,140	2.01%
382.00	OUTFALL SEWER LINES	626,996	R3	50	260,030	366,966	30.64	11,977	1.91%
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT - INTANGIBLES	2,659,061	S2.5	20	519,818	2,139,243	16.97	126,060	4.74%
390.00	OFFICE FURNITURE AND EQUIPMENT	3,637,908	SQ	20	235,095	3,402,813	17.96	189,466	5.21%
391.00	TRANSPORTATION EQUIPMENT	4,736,844	L4	14	1,347,338	3,389,506	9.73	348,356	7.35%
392.00	STORES EQUIPMENT	107,351	SQ	25	42,601	64,751	14.70	4,405	4.10%
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	1,532,894	SQ	20	462,743	1,070,151	13.60	78,688	5.13%
394.00	LABORATORY EQUIPMENT	879,511	SQ	15	200,467	679,044	7.00	97,006	11.03%
395.00	POWER OPERATED EQUIPMENT	427,100	R2	22	283,059	144,042	12.35	11,663	2.73%
396.00	COMMUNICATION EQUIPMENT	4,254,549	SQ	15	1,071,678	3,182,870	10.90	292,006	6.86%
397.00	MISCELLANEOUS EQUIPMENT	1,857,094	SQ	15	546,961	1,310,133	12.10	108,275	5.83%
398.00	OTHER TANGIBLE PLANT	14,232	SQ	25	2,342	11,889	19.00	626	4.40%
	Total Wastewater Sanitary Sewer System	950,534,878			249,131,690	701,403,188	33.98	20,638,871	2.17%
	Butler Area Sewer Authority (BASA)								
354.30	STRUCTURES AND IMPROVEMENTS - SPP	36,968,125	S0	55	460,605	36,507,520	43.14	846,257	2.29%
354.40	STRUCTURES AND IMPROVEMENTS - TDP	17,268,436	S0	55	-2,295	17,270,731	28.63	603,239	3.49%
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	7,450,765	S0	55	179,250	7,271,515	42.00	173,131	2.32%
355.00	POWER GENERATING EQUIPMENT	1,312,066	S0.5	35	22,501	1,289,566	23.09	55,850	4.26%
360.10	COLLECTION SEWERS - FORCE MAINS	8,434,800	R3	75	-88,749	8,523,548	48.45	175,925	2.09%
361.10	COLLECTION SEWERS - GRAVITY MAINS	85,669,774	R2.5	80	919,488	84,750,286	41.61	2,036,777	2.38%
361.20	MANHOLES	12,203,899	S2.5	50	266,876	11,937,024	19.08	625,630	5.13%
363.00	SERVICES	11,834,905	R3	47	202,376	11,632,529	19.10	609,033	5.15%
364.00	FLOW MEASURING DEVICES	237,618	L2.5	15	12,430	225,188	4.61	48,848	20.56%
371.00	PUMPING EQUIPMENT	6,701,216	S0.5	30	227,519	6,473,697	17.55	368,872	5.50%
380.00	TREATMENT EQUIPMENT	25,360,724	S1.5	35	654,380	24,706,344	19.04	1,297,602	5.12%
382.00	OUTFALL SEWER LINES	73,525	R3	50	1,192	72,333	6.29	11,500	15.64%
390.00	OFFICE FURNITURE AND EQUIPMENT	280,503	SQ	20	3,178	277,326	18.60	14,910	5.32%
391.00	TRANSPORTATION EQUIPMENT	673,949	L4	14	32,134	641,816	9.94	64,569	9.58%
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	305,791	SQ	20	3,279	302,512	20.00	15,126	4.95%
395.00	POWER OPERATED EQUIPMENT	651,788	R2	22	28,767	623,021	15.88	39,233	6.02%
396.00	COMMUNICATION EQUIPMENT	938,448	SQ	15	-36,581	975,030	12.20	79,920	8.52%
397.00	MISCELLANEOUS EQUIPMENT	76,253	SQ	15	2,041	74,212	14.00	5,301	6.95%
	Total Butler Area Sewer Authority	216,442,587			2,888,390	213,554,197	30.20	7,071,721	3.27%

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2025	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
	Wastewater Combined Sewer System (CSS)								
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	44,336,603	R3	45	2,186,103	42,150,499	43.18	976,158	2.20%
354.30	STRUCTURES AND IMPROVEMENTS - SPP	25,842,327	S0	55	7,972,095	17,870,232	42.90	416,556	1.61%
354.40	STRUCTURES AND IMPROVEMENTS - TDP	134,343,428	S0	55	58,204,719	76,138,709	38.38	1,983,812	1.48%
355.00	POWER GENERATING EQUIPMENT	3,221,470	S0.5	35	403,339	2,818,131	31.37	89,835	2.79%
360.10	COLLECTION SEWERS - FORCE MAINS	17,527,772	R3	75	922,431	16,605,341	70.71	234,837	1.34%
361.10	COLLECTION SEWERS - GRAVITY MAINS	426,548,529	R2.5	80	155,653,100	270,895,429	53.45	5,068,203	1.19%
361.20	MANHOLES	45,588,029	S2.5	50	15,700,062	29,887,968	26.73	1,118,143	2.45%
363.00	SERVICES	17,729,986	R3	47	5,721,277	12,008,709	30.39	395,153	2.23%
364.00	FLOW MEASURING DEVICES	2,607,930	L2.5	15	1,078,538	1,529,393	9.19	166,419	6.38%
371.00	PUMPING EQUIPMENT	17,941,888	S0.5	30	5,547,207	12,394,681	22.48	551,365	3.07%
380.00	TREATMENT EQUIPMENT	83,722,295	S1.5	35	32,056,562	51,665,733	22.04	2,344,180	2.80%
381.00	PLANT SEWERS	1,576,345	R3	50	863,246	713,099	25.81	27,629	1.75%
382.00	OUTFALL SEWER LINES	499,404	R3	50	67,342	432,063	46.18	9,356	1.87%
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT	10,813,551	S2.5	20	3,813,206	7,000,345	12.92	541,822	5.01%
390.00	OFFICE FURNITURE AND EQUIPMENT	4,194,872	SQ	20	686,146	3,508,726	15.56	225,497	5.38%
391.00	TRANSPORTATION EQUIPMENT	10,425,804	L4	14	4,510,202	5,915,602	8.21	720,536	6.91%
392.00	STORES EQUIPMENT	176,309	SQ	25	21,615	154,694	21.00	7,366	4.18%
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	5,300,165	SQ	20	915,299	4,384,866	17.00	257,933	4.87%
394.00	LABORATORY EQUIPMENT	451,557	SQ	15	270,779	180,778	13.20	13,695	3.03%
395.00	POWER OPERATED EQUIPMENT	2,309,684	R2	22	1,079,120	1,230,564	12.50	98,445	4.26%
396.00	COMMUNICATION EQUIPMENT	2,954,453	SQ	15	1,123,923	1,830,530	8.40	217,920	7.38%
397.00	MISCELLANEOUS EQUIPMENT	2,843,995	SQ	15	809,600	2,034,395	10.30	197,514	6.94%
	Total Wastewater Combined Sewer System	860,956,397			299,605,910	561,350,487	35.84	15,662,376	1.82%
	TOTAL PLANT STUDIED	**9,020,475,456**			**1,887,217,071**	**7,133,258,385**	**36.13**	**197,413,414**	**2.19%**

[1], [3] From Company depreciation study

[2] Average life and Iowa curve shape developed through actuarial analysis and professional judgment

[4] = [1] - [3]

[5] Composite remaining life based on Iowa cuve in [2]; see remaining life exhibit for detailed calculations

[6] = [4] / [5]; (some unadjusted figures may be hard coded to match Company proposal)

[7] = [6] / [1]; (some unadjusted figures may hard coded to match Company proposal)

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2026	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
	Water Operations							
303.14	WATER RIGHTS - HIBERNIA	1,942,823	0.00%	0	0.00%	0	0.00%	0
303.35	WASTE HANDLING AND TREATMENT LAND	155,025	0.95%	1,469	0.21%	323	-0.74%	-1,146
303.99	COMPREHENSIVE PLANNING STUDIES	15,691,832	10.36%	1,625,806	10.38%	1,629,023	0.02%	3,217
304.15	OTHER WATER SOURCE STRUCTURES	123,448,677	2.78%	3,432,011	2.02%	2,495,479	-0.76%	-936,532
304.20	POWER AND PUMING STRUCTURES							
	LARGE STRUCTURES	56,902,089	2.95%	1,678,391	1.35%	770,827	-1.60%	-907,564
	OTHER STRUCTURES	80,622,784	2.58%	2,082,385	2.07%	1,666,702	-0.51%	-415,683
	TOTAL ACCOUNT 304.20	137,524,873	2.73%	3,760,776	1.77%	2,437,530	-0.96%	-1,323,246
304.30	PURIFICATION BUILDINGS							
	LARGE STRUCTURES	364,806,611	2.53%	9,213,105	1.58%	5,775,123	-0.95%	-3,437,982
	OTHER STRUCTURES	75,971,039	1.83%	1,391,674	1.61%	1,225,040	-0.22%	-166,634
	TOTAL ACCOUNT 304.30	440,777,650	2.41%	10,604,779	1.59%	7,000,163	-0.82%	-3,604,616
304.36	WASTE HANDLING AND TREATMENT STRUCTURES	28,441,582	3.59%	1,022,337	1.67%	474,053	-1.92%	-548,284
304.38	WASTE HANDLING AND TREATMENT STRUCTURES PAINTING	1,403,439	9.40%	131,909	9.40%	131,909	0.00%	0
304.39	PURIFICATION BUILDINGS - TANK PAINTING	968,752	8.70%	84,275	8.70%	84,275	0.00%	0
304.61	OFFICE BUILDINGS							
	LARGE STRUCTURES	29,028,974	3.64%	1,056,579	1.51%	437,207	-2.13%	-619,372
	OTHER OTHER STRUCTURES	15,321,845	2.20%	337,630	1.95%	299,329	-0.25%	-38,301
	TOTAL ACCOUNT 304.61	44,350,819	3.14%	1,394,209	1.66%	736,536	-1.48%	-657,673
304.62	STORES, SHOP AND GARAGE BUILDINGS							
	LARGE STRUCTURES	59,397,332	2.36%	1,400,369	1.43%	847,622	-0.93%	-552,747
	OTHER OTHER STRUCTURES	9,332,330	1.59%	148,108	1.71%	159,293	0.12%	11,185
	TOTAL ACCOUNT 304.62	68,729,662	2.25%	1,548,477	1.47%	1,006,914	-0.79%	-541,563
304.65	MISCELLANEOUS STRUCTURES AND IMPROVEMENTS	5,587,737	0.76%	42,283	0.65%	36,473	-0.11%	-5,810
305.00	COLLECTING AND IMPOUNDING RESERVOIRS							
	LARGE RESERVOIRS	164,029,414	1.46%	2,388,832	1.46%	2,390,725	0.00%	1,893
	OTHER RESERVOIRS	11,419,519	1.60%	182,507	1.37%	156,390	-0.23%	-26,117
	TOTAL ACCOUNT 305.00	175,448,933	1.47%	2,571,339	1.45%	2,547,115	-0.01%	-24,224

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2026	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
306.00	LAKE, RIVER AND OTHER INTAKES							
	LARGE RESERVOIRS	12,329,112	2.25%	277,881	1.86%	228,971	-0.39%	-48,910
	OTHER RESERVOIRS	8,189,556	2.63%	215,036	1.97%	161,372	-0.66%	-53,664
	TOTAL ACCOUNT 306.00	20,518,669	2.40%	492,917	1.90%	390,343	-0.50%	-102,574
307.00	WELLS AND SPRINGS	14,361,759	2.19%	314,660	1.64%	235,096	-0.55%	-79,564
310.00	POWER GENERATION EQUIPMENT	26,827,956	2.57%	688,880	1.95%	523,867	-0.62%	-165,013
	PUMPING EQUIPMENT							
311.20	ELECTRIC PUMPING EQUIPMENT	23,802,038	3.35%	796,624	2.36%	562,214	-0.99%	-234,410
311.50	OTHER	29,718,053	3.81%	1,133,486	2.52%	747,477	-1.29%	-386,009
311.52	SOURCE OF SUPPLY	11,405,625	3.13%	357,066	2.30%	262,683	-0.83%	-94,383
311.53	WATER TREATMENT	48,154,022	2.65%	1,274,113	2.21%	1,064,461	-0.44%	-209,652
311.54	TRANSMISSION AND DISTRIBUTION	9,832,787	3.18%	312,661	2.33%	229,032	-0.85%	-83,629
	TOTAL ACCOUNT 311.00	122,912,524	3.15%	3,873,950	2.33%	2,865,867	-0.82%	-1,008,083
	PURIFICATION SYSTEM							
320.10	LARGE STRUCTURES	239,312,277	2.55%	6,096,430	1.72%	4,116,763	-0.83%	-1,979,667
320.11	OTHER LARGE STRUCTURES	18,215,878	1.98%	361,050	1.73%	314,544	-0.25%	-46,506
	TOTAL ACCOUNT 320.10	257,528,155	2.51%	6,457,480	1.72%	4,431,307	-0.79%	-2,026,173
	ACCOUNT 320.00							
320.18	LARGE STRUCTURES PAINT	103,246	0.00%	0	0.00%	0	0.00%	0
320.19	LARGE STRUCTURES PAINT	4,370,191	3.64%	159,200	3.62%	158,190	-0.02%	-1,010
320.20	CHEMICAL TREATMENT	163,925,562	3.36%	5,513,478	2.08%	3,408,860	-1.28%	-2,104,618
320.29	CHEMICAL TREATMENT PAINT	8,168	0.00%	0	0.00%	0	0.00%	0
320.30	GRANULAR ACTIVATED CARBON	24,011,056	10.40%	2,497,624	7.54%	1,811,308	-2.86%	-686,316
320.37	WASTE HANDLING AND TREATMENT - EQUIPMENT	20,634,881	2.60%	536,886	2.92%	602,509	0.32%	65,623
	TOTAL ACCOUNT 320.00	213,053,103	4.09%	8,707,188	2.81%	5,980,866	-1.28%	-2,726,322
	ACCOUNT 330.00							
330.00	DISTRIBUTION RESERVOIRS AND STANDPIPES	136,254,296	1.71%	2,330,633	1.34%	1,823,075	-0.37%	-507,558
330.10	ELEVATED TANKS AND STANDPIPES	17,848,701	1.98%	353,272	1.44%	257,525	-0.54%	-95,747
330.20	GROUND LEVEL FACILITIES	19,120,765	1.94%	369,995	1.42%	272,079	-0.52%	-97,916
330.30	BELOW GRADE FACILITIES	818,707	1.88%	15,368	1.40%	11,443	-0.48%	-3,925
330.40	CLEARWELL	19,670,178	1.99%	392,195	1.45%	285,889	-0.54%	-106,306
330.58	DISTRIBUTION RESERVOIRS AND STANDPIPES - PAINTING	2,918,574	2.45%	71,491	2.44%	71,216	-0.01%	-275

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2026	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
330.59	DISTRIBUTION RESERVOIRS AND STANDPIPES - PAINTING	48,464,875	5.31%	2,573,742	5.29%	2,562,439	-0.02%	-11,303
	TOTAL ACCOUNT 330.00	245,096,098	2.49%	6,106,696	2.16%	5,283,666	-0.34%	-823,030
331.00	MAINS AND ACCESSORIES	3,721,242,317	1.50%	55,914,791	1.15%	42,661,155	-0.35%	-13,253,636
333.00	SERVICES	848,543,221	1.91%	16,172,696	1.56%	13,244,090	-0.35%	-2,928,606
334.00	METERS AND METER INSTALLATIONS	304,640,968	6.34%	19,303,971	4.78%	14,569,227	-1.56%	-4,734,744
335.00	FIRE HYDRANTS	165,807,649	2.23%	3,694,420	1.73%	2,861,282	-0.50%	-833,138
340.00	OFFICE FURNITURE AND EQUIPMENT							
	FURNITURE	10,047,342	6.24%	627,104	6.25%	627,981	0.01%	877
	COMPUTERS AND PERIPHERAL EQUIPMENT	22,888,705	28.45%	6,511,584	28.37%	6,494,599	-0.08%	-16,985
	COMPUTER SOFTWARE	88,254,943	26.55%	23,435,513	26.75%	23,605,893	0.20%	170,380
	COMPUTER SOFTWARE - ENTERPRISE SOLUTIONS	696,707	13.76%	95,839	13.76%	95,839	0.00%	0
	OTHER OFFICE EQUIPMENT	58,898	19.08%	11,236	18.96%	11,168	-0.12%	-68
	TOTAL ACCOUNT 340.00	121,946,595	25.16%	30,681,276	25.29%	30,835,481	0.13%	154,205
341.00	TRANSPORATION EQUIPMENT							
	NOT CLASSIFIED	38,598	10.89%	4,203	9.06%	3,498	-1.83%	-705
	LIGHT DUTY TRUCKS	82,028,853	7.90%	6,479,136	6.89%	5,655,362	-1.01%	-823,774
	EQUIPMENT	15,276,635	1.31%	200,712	1.14%	174,229	-0.17%	-26,483
	AUTOS	2,022,390	0.00%	0	0.00%	0	0.00%	0
	OTHER	7,685,814	1.33%	101,927	1.43%	110,085	0.10%	8,158
	TOTAL ACCOUNT 341.00	107,052,291	6.34%	6,785,978	5.55%	5,943,174	-0.79%	-842,804
342.00	STORES EQUIPMENT	477,263	6.23%	29,730	6.24%	29,765	0.01%	35
343.00	TOOLS AND WORK EQUIPMENT	82,457,474	5.32%	4,389,702	5.31%	4,379,887	-0.01%	-9,815
344.00	LABORATORY EQUIPMENT	2,539,077	8.32%	211,267	8.34%	211,774	0.02%	507
345.00	POWER OPERATED EQUIPMENT	3,091,859	3.88%	120,089	3.77%	116,660	-0.11%	-3,429
346.00	COMUNICATION EQUIPMENT							
	EQUIPMENT	5,520,780	6.65%	367,101	6.63%	366,053	-0.02%	-1,048
	NON-TELEPHONE	13,878,764	7.10%	984,954	7.06%	980,347	-0.04%	-4,607
	REMOTE CONTROL AND INSTRUMENTATION	12,716,949	10.02%	1,273,684	9.97%	1,267,428	-0.05%	-6,256
	TELEPHONE	213,745	12.10%	25,870	12.15%	25,973	0.05%	103
	TOTAL ACCOUNT 346.00	32,330,238	8.20%	2,651,609	8.17%	2,639,801	-0.04%	-11,808
347.00	MISCELLANEOUS EQUIPMENT	28,099,483	4.28%	1,203,256	4.28%	1,202,889	0.00%	-367
348.00	OTHER TANGIBLE EQUIPMENT	14,545,575	4.14%	602,054	4.15%	603,093	0.01%	1,039

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2026	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
	Total Water Operations	7,377,544,075	2.64%	194,622,280	2.14%	157,589,083	-0.50%	-37,033,197
	Wastewater Sanitary Sewer System (SSS)							
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	12,274,079	2.65%	325,386	2.29%	280,952	-0.36%	-44,434
354.30	STRUCTURES AND IMPROVEMENTS - SPP	28,946,012	2.29%	664,164	1.66%	480,366	-0.63%	-183,798
354.40	STRUCTURES AND IMPROVEMENTS - TDP	296,544,707	2.45%	7,278,198	1.91%	5,653,285	-0.54%	-1,624,913
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	8,027,455	2.95%	236,730	2.38%	190,858	-0.57%	-45,872
355.00	POWER GENERATION EQUIPMENT	7,137,994	2.37%	169,492	1.96%	140,235	-0.41%	-29,257
360.10	COLLECTION SEWERS - FORCE MAINS	46,364,017	1.63%	754,617	1.40%	649,157	-0.23%	-105,460
361.10	COLLECTION SEWERS - GRAVITY MAINS	254,095,190	1.67%	4,250,909	1.36%	3,450,231	-0.31%	-800,678
361.20	MANHOLES	47,699,869	4.01%	1,912,081	2.50%	1,190,495	-1.51%	-721,586
363.00	SERVICES	64,832,866	3.17%	2,055,036	2.25%	1,456,745	-0.92%	-598,291
364.00	FLOW MEASURING DEVICES	724,745	5.36%	38,875	4.53%	32,836	-0.83%	-6,039
365.00	FLOW MEASURING INSTALLATIONS	272,564	0.00%	12	0.01%	30	0.01%	18
370.00	RECEIVING WELLS	677,388	2.40%	16,237	2.09%	14,144	-0.31%	-2,093
371.00	PUMPING EQUIPMENT	20,392,676	4.49%	916,525	3.34%	680,389	-1.15%	-236,136
380.00	TREATMENT EQUIPMENT	151,948,874	4.11%	6,241,059	3.24%	4,919,194	-0.87%	-1,321,865
381.00	PLANT SEWERS	6,624,603	2.28%	150,714	2.00%	132,265	-0.28%	-18,449
382.00	OUTFALL SEWER LINES	626,996	2.11%	13,242	1.89%	11,851	-0.22%	-1,391
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT - INTANGIBLES	2,659,061	5.15%	136,857	4.70%	124,971	-0.45%	-11,886
390.00	OFFICE FURNITURE AND EQUIPMENT	3,634,697	5.24%	190,354	5.22%	189,843	-0.02%	-511
391.00	TRANSPORTATION EQUIPMENT	4,786,161	7.96%	381,084	7.18%	343,756	-0.78%	-37,328
392.00	STORES EQUIPMENT	107,351	4.11%	4,411	4.10%	4,404	-0.01%	-7
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	1,663,556	4.82%	80,114	4.83%	80,301	0.01%	187
394.00	LABORATORY EQUIPMENT	863,406	10.58%	91,306	10.62%	91,665	0.04%	359
395.00	POWER OPERATED EQUIPMENT	427,100	2.84%	12,151	2.62%	11,184	-0.22%	-967
396.00	COMMUNICATION EQUIPMENT	4,157,904	7.04%	292,801	7.07%	293,905	0.03%	1,104
397.00	MISCELLANEOUS EQUIPMENT	1,871,658	5.86%	109,736	5.86%	109,738	0.00%	2
398.00	OTHER TANGIBLE PLANT	2,515,100	3.95%	99,372	3.96%	99,478	0.01%	106
	Total Wastewater Sanitary Sewer System	969,876,030	2.72%	26,421,463	2.13%	20,632,278	-0.60%	-5,789,185
	Butler Area Sewer Authority (BASA)							

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2026	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	465,513	2.62%	12,213	2.32%	10,790	-0.30%	-1,423
354.30	STRUCTURES AND IMPROVEMENTS - SPP	36,968,125	3.14%	1,160,002	2.25%	831,687	-0.89%	-328,315
354.40	STRUCTURES AND IMPROVEMENTS - TDP	17,268,436	4.19%	723,627	3.40%	586,724	-0.79%	-136,903
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	7,747,804	6.80%	526,720	2.26%	175,308	-4.54%	-351,412
355.00	POWER GENERATING EQUIPMENT	1,312,066	5.32%	69,817	4.13%	54,216	-1.19%	-15,601
360.10	COLLECTION SEWERS - FORCE MAINS	8,438,180	2.58%	217,313	2.07%	174,491	-0.51%	-42,822
361.10	COLLECTION SEWERS - GRAVITY MAINS	87,578,225	3.16%	2,770,629	2.29%	2,008,144	-0.87%	-762,485
361.20	MANHOLES	12,188,944	8.95%	1,091,274	4.76%	579,621	-4.19%	-511,653
363.00	SERVICES	12,222,470	10.72%	1,309,881	4.45%	543,745	-6.27%	-766,136
364.00	FLOW MEASURING DEVICES	237,618	21.58%	51,282	14.61%	34,720	-6.97%	-16,562
371.00	PUMPING EQUIPMENT	6,807,186	7.89%	537,073	5.15%	350,910	-2.74%	-186,163
380.00	TREATMENT EQUIPMENT	25,634,017	7.61%	1,951,852	4.80%	1,230,671	-2.81%	-721,181
382.00	OUTFALL SEWER LINES	73,525	14.35%	10,554	13.59%	9,990	-0.76%	-564
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT - INTANGIBLES	445,667	5.46%	24,316	4.94%	22,001	-0.52%	-2,315
390.00	OFFICE FURNITURE AND EQUIPMENT	280,503	5.30%	14,875	5.31%	14,908	0.01%	33
391.00	TRANSPORTATION EQUIPMENT	673,949	11.92%	80,327	8.83%	59,530	-3.09%	-20,797
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	385,042	5.16%	19,850	5.15%	19,831	-0.01%	-19
394.00	LABORATORY EQUIPMENT	57,417	6.55%	3,763	6.58%	3,776	0.03%	13
395.00	POWER OPERATED EQUIPMENT	651,788	8.48%	55,243	5.71%	37,221	-2.77%	-18,022
396.00	COMMUNICATION EQUIPMENT	938,448	8.44%	79,209	8.44%	79,225	0.00%	16
397.00	MISCELLANEOUS EQUIPMENT	87,575	7.07%	6,195	7.05%	6,176	-0.02%	-19
	Total Butler Area Sewer Authority	220,462,501	4.86%	10,716,015	3.10%	6,833,684	-1.76%	-3,882,331
	Wastewater Combined Sewer System (CSS)							
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	45,811,236	2.55%	1,166,576	2.20%	1,007,027	-0.35%	-159,549
354.30	STRUCTURES AND IMPROVEMENTS - SPP	25,842,327	2.14%	552,626	1.59%	409,722	-0.55%	-142,904
354.40	STRUCTURES AND IMPROVEMENTS - TDP	134,343,428	1.82%	2,446,154	1.45%	1,946,289	-0.37%	-499,865
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	580,901	3.72%	21,585	2.90%	16,860	-0.82%	-4,725
355.00	POWER GENERATING EQUIPMENT	4,132,797	3.84%	158,838	2.77%	114,667	-1.07%	-44,171
360.10	COLLECTION SEWERS - FORCE MAINS	18,338,501	1.54%	282,469	1.33%	243,441	-0.21%	-39,028
361.10	COLLECTION SEWERS - GRAVITY MAINS	430,657,642	1.37%	5,902,204	1.18%	5,068,605	-0.19%	-833,599
361.20	MANHOLES	46,202,436	3.45%	1,593,968	2.32%	1,072,802	-1.13%	-521,166
363.00	SERVICES	19,377,899	2.90%	561,422	2.27%	439,872	-0.63%	-121,550
364.00	FLOW MEASURING DEVICES	2,607,930	7.47%	194,799	5.89%	153,584	-1.58%	-41,215
371.00	PUMPING EQUIPMENT	18,747,261	3.90%	731,221	3.02%	566,069	-0.88%	-165,152

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2026	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
380.00	TREATMENT EQUIPMENT	86,460,163	3.24%	2,798,583	2.75%	2,378,848	-0.49%	-419,735
381.00	PLANT SEWERS	1,576,345	1.94%	30,529	1.73%	27,288	-0.21%	-3,241
382.00	OUTFALL SEWER LINES	499,404	2.15%	10,721	1.87%	9,318	-0.28%	-1,403
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT	10,813,551	5.65%	610,937	4.88%	527,232	-0.77%	-83,705
390.00	OFFICE FURNITURE AND EQUIPMENT	4,194,872	5.48%	229,792	5.48%	229,956	0.00%	164
391.00	TRANSPORTATION EQUIPMENT	10,490,097	6.87%	720,750	6.65%	697,997	-0.22%	-22,753
392.00	STORES EQUIPMENT	176,309	4.15%	7,319	4.16%	7,336	0.01%	17
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	5,393,193	4.85%	261,343	4.85%	261,565	0.00%	222
394.00	LABORATORY EQUIPMENT	2,906,362	6.50%	188,834	6.49%	188,616	-0.01%	-218
395.00	POWER OPERATED EQUIPMENT	2,309,684	4.05%	93,443	3.58%	82,573	-0.47%	-10,870
396.00	COMMUNICATION EQUIPMENT	3,033,833	7.31%	221,717	7.31%	221,891	0.00%	174
397.00	MISCELLANEOUS EQUIPMENT	2,857,284	6.92%	197,654	6.95%	198,700	0.03%	1,046
	Total Wastewater Combined Sewer System	877,353,456	2.16%	18,983,484	1.81%	15,870,260	-0.35%	-3,113,224
	Elizabeth Borough Wastewater							
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	204,838	5.27%	10,803	4.55%	9,321	-0.72%	-1,482
354.30	STRUCTURES AND IMPROVEMENTS - SPP	6,131,131	2.96%	181,699	1.94%	118,833	-1.02%	-62,866
354.40	STRUCTURES AND IMPROVEMENTS - TDP	1,561,716	4.02%	62,817	2.95%	46,131	-1.07%	-16,686
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	44,831	9.16%	4,107	7.55%	3,386	-1.61%	-721
355.00	POWER GENERATING EQUIPMENT	126,051	4.39%	5,538	3.17%	4,001	-1.22%	-1,537
360.10	COLLECTION SEWERS - FORCE MAINS	289,282	1.63%	4,703	1.40%	4,059	-0.23%	-644
361.10	COLLECTION SEWERS - GRAVITY MAINS	12,250,747	2.29%	281,021	1.72%	210,337	-0.57%	-70,684
361.20	MANHOLES	420,172	13.95%	58,628	4.69%	19,697	-9.26%	-38,931
363.00	SERVICES	12,000	2.53%	303	2.13%	255	-0.40%	-48
364.00	FLOW MEASURING DEVICES	466,102	20.23%	94,311	13.85%	64,554	-6.38%	-29,757
370.00	RECEIVING WELLS	181,963	2.50%	4,542	2.16%	3,929	-0.34%	-613
371.00	PUMPING EQUIPMENT	1,182,839	6.21%	73,410	3.87%	45,762	-2.34%	-27,648
380.00	TREATMENT EQUIPMENT	1,648,981	7.91%	130,370	3.94%	65,004	-3.97%	-65,366
381.00	PLANT SEWERS	1,288,883	3.33%	42,935	2.62%	33,722	-0.71%	-9,213
382.00	OUTFALL SEWER LINES	2,828	2.51%	71	2.16%	61	-0.35%	-10
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT - INTANGIBLES	11,608	8.62%	1,001	7.48%	868	-1.14%	-133
390.00	OFFICE FURNITURE AND EQUIPMENT	58,891	6.78%	3,995	6.79%	4,001	0.01%	6
391.00	TRANSPORTATION EQUIPMENT	47,639	32.62%	15,541	20.08%	9,568	-12.54%	-5,973
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	506,530	12.67%	64,161	12.66%	64,125	-0.01%	-36
394.00	LABORATORY EQUIPMENT	22,808	39.87%	9,093	39.81%	9,081	-0.06%	-12

Detailed Rate Comparison - 2025

		[1]	[2]		[3]		[4]	
			PAWC Position		OCA Position		OCA Adjustment	
Account No.	Description	Plant 6/30/2026	Rate	Annual Accrual	Rate	Annual Accrual	Rate	Annual Accrual
395.00	POWER OPERATED EQUIPMENT	1,425	84.52%	1,204	73.24%	1,043	-11.28%	-161
396.00	COMMUNICATION EQUIPMENT	168,797	8.67%	14,628	8.70%	14,689	0.03%	61
	Total Elizabeth Borough Wastewater	26,630,061	4.00%	1,064,881	2.75%	732,425	-1.25%	-332,456
	TOTAL PLANT STUDIED	**9,471,866,123**	**2.66%**	**251,808,123**	**2.13%**	**201,657,731**	**-0.53%**	**-50,150,392**

[1], [2] From Company depreciation study

[3] From Exhibit DJG-21

[4] = [3] - [2]

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2026	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
	Water Operations								
303.14	WATER RIGHTS - HIBERNIA	1,942,823	SQ	25	1,942,823	0			
303.35	WASTE HANDLING AND TREATMENT LAND	155,025	R3	100	133,333	21,692	67.25	323	0.21%
303.99	COMPREHENSIVE PLANNING STUDIES	15,691,832	SQ	5	11,619,274	4,072,558	2.50	1,629,023	10.38%
304.15	OTHER WATER SOURCE STRUCTURES	123,448,677	S0.5	50	15,444,350	108,004,327	43.28	2,495,479	2.02%
304.20	POWER AND PUMING STRUCTURES								
	LARGE STRUCTURES	56,902,089	S0.5	75	10,490,580	46,411,509	60.21	770,827	1.35%
	OTHER STRUCTURES	80,622,784	R3	55	10,904,625	69,718,159	41.83	1,666,702	2.07%
	TOTAL ACCOUNT 304.20	137,524,873			21,395,205	116,129,668	47.64	2,437,530	1.77%
304.30	PURIFICATION BUILDINGS								
	LARGE STRUCTURES	364,806,611	S1	55	122,886,694	241,919,917	41.89	5,775,123	1.58%
	OTHER STRUCTURES	75,971,039	R3	60	16,446,346	59,524,693	48.59	1,225,040	1.61%
	TOTAL ACCOUNT 304.30	440,777,650			139,333,040	301,444,610	43.06	7,000,163	1.59%
304.36	WASTE HANDLING AND TREATMENT STRUCTURES	28,441,582	S1	55	8,792,092	19,649,490	41.45	474,053	1.67%
304.38	WASTE HANDLING AND TREATMENT STRUCTURES PAINTING	1,403,439	SQ	10	743,896	659,543	5.00	131,909	9.40%
304.39	PURIFICATION BUILDINGS - TANK PAINTING	968,752	SQ	10	378,827	589,925	7.00	84,275	8.70%
304.61	OFFICE BUILDINGS								
	LARGE STRUCTURES	29,028,974	S0	55	8,873,754	20,155,220	46.10	437,207	1.51%
	OTHER OTHER STRUCTURES	15,321,845	R3	50	4,701,637	10,620,208	35.48	299,329	1.95%
	TOTAL ACCOUNT 304.61	44,350,819			13,575,391	30,775,428	41.78	736,536	1.66%
304.62	STORES, SHOP AND GARAGE BUILDINGS								
	LARGE STRUCTURES	59,397,332	S0.5	55	20,288,067	39,109,265	46.14	847,622	1.43%
	OTHER OTHER STRUCTURES	9,332,330	R3	45	4,594,965	4,737,365	29.74	159,293	1.71%
	TOTAL ACCOUNT 304.62	68,729,662			24,883,032	43,846,630	43.55	1,006,914	1.47%
304.65	MISCELLANEOUS STRUCTURES AND IMPROVEMENTS	5,587,737	S0.5	35	4,589,096	998,641	27.38	36,473	0.65%
305.00	COLLECTING AND IMPOUNDING RESERVOIRS								
	LARGE RESERVOIRS	164,029,414	R2	130	19,629,651	144,399,763	60.40	2,390,725	1.46%
	OTHER RESERVOIRS	11,419,519	R3	75	1,152,502	10,267,017	65.65	156,390	1.37%
	TOTAL ACCOUNT 305.00	175,448,933			20,782,153	154,666,780	60.72	2,547,115	1.45%
306.00	LAKE, RIVER AND OTHER INTAKES								
	LARGE RESERVOIRS	12,329,112	S1.5	55	5,558,434	6,770,678	29.57	228,971	1.86%
	OTHER RESERVOIRS	8,189,556	S0.5	50	1,996,091	6,193,465	38.38	161,372	1.97%
	TOTAL ACCOUNT 306.00	20,518,669			7,554,525	12,964,144	33.21	390,343	1.90%

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2026	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
307.00	WELLS AND SPRINGS	14,361,759	S0	55	4,957,929	9,403,830	40.00	235,096	1.64%
310.00	POWER GENERATION EQUIPMENT	26,827,956	S0.5	45	8,188,777	18,639,179	35.58	523,867	1.95%
	PUMPING EQUIPMENT								
311.20	ELECTRIC PUMPING EQUIPMENT	23,802,038	S0	39	5,828,049	17,973,989	31.97	562,214	2.36%
311.50	OTHER	29,718,053	S0	39	2,913,518	26,804,535	35.86	747,477	2.52%
311.52	SOURCE OF SUPPLY	11,405,625	S0	39	3,446,321	7,959,304	30.30	262,683	2.30%
311.53	WATER TREATMENT	48,154,022	S0	39	27,290,584	20,863,438	19.60	1,064,461	2.21%
311.54	TRANSMISSION AND DISTRIBUTION	9,832,787	S0	39	2,980,164	6,852,623	29.92	229,032	2.33%
	TOTAL ACCOUNT 311.00	122,912,524			42,458,636	80,453,888	28.07	2,865,867	2.33%
	PURIFICATION SYSTEM								
320.10	LARGE STRUCTURES	239,312,277	S1	50	98,601,308	140,710,969	34.18	4,116,763	1.72%
320.11	OTHER LARGE STRUCTURES	18,215,878	R3	55	5,385,625	12,830,253	40.79	314,544	1.73%
	TOTAL ACCOUNT 320.10	257,528,155			103,986,933	153,541,222	34.65	4,431,307	1.72%
	ACCOUNT 320.00								
320.18	LARGE STRUCTURES PAINT	103,246	SQ	10	103,246	0			
320.19	LARGE STRUCTURES PAINT	4,370,191	SQ	10	3,436,872	933,319	5.90	158,190	3.62%
320.20	CHEMICAL TREATMENT	163,925,562	R0.5	42	43,183,756	120,741,806	35.42	3,408,860	2.08%
320.29	CHEMICAL TREATMENT PAINT	8,168			8,168	0			
320.30	GRANULAR ACTIVATED CARBON	24,011,056	L0.5	11	10,245,118	13,765,938	7.60	1,811,308	7.54%
320.37	WASTE HANDLING AND TREATMENT - EQUIPMENT	20,634,881	R3	30	10,952,554	9,682,327	16.07	602,509	2.92%
	TOTAL ACCOUNT 320.00	213,053,103			67,929,714	145,123,389	24.26	5,980,866	2.81%
	ACCOUNT 330.00								
330.00	DISTRIBUTION RESERVOIRS AND STANDPIPES	136,254,296	S0.5	65	49,403,016	86,851,280	47.64	1,823,075	1.34%
330.10	ELEVATED TANKS AND STANDPIPES	17,848,701	S0.5	65	3,290,822	14,557,879	56.53	257,525	1.44%
330.20	GROUND LEVEL FACILITIES	19,120,765	S0.5	65	4,131,913	14,988,852	55.09	272,079	1.42%
330.30	BELOW GRADE FACILITIES	818,707	S0.5	65	210,865	607,842	53.12	11,443	1.40%
330.40	CLEARWELL	19,670,178	S0.5	65	3,591,759	16,078,419	56.24	285,889	1.45%
330.58	DISTRIBUTION RESERVOIRS AND STANDPIPES - PAINTING	2,918,574	SQ	10	2,370,212	548,362	7.70	71,216	2.44%
330.59	DISTRIBUTION RESERVOIRS AND STANDPIPES - PAINTING	48,464,875	SQ	10	33,858,975	14,605,900	5.70	2,562,439	5.29%
	TOTAL ACCOUNT 330.00	245,096,098			96,857,562	148,238,536	28.06	5,283,666	2.16%
331.00	MAINS AND ACCESSORIES	3,721,242,317	R2	90	433,347,090	3,287,895,227	77.07	42,661,155	1.15%
333.00	SERVICES	848,543,221	R2.5	65	170,313,381	678,229,840	51.21	13,244,090	1.56%
334.00	METERS AND METER INSTALLATIONS	304,640,968	L1.5	20	93,095,796	211,545,172	14.52	14,569,227	4.78%
335.00	FIRE HYDRANTS	165,807,649	R2	60	25,919,593	139,888,056	48.89	2,861,282	1.73%
340.00	OFFICE FURNITURE AND EQUIPMENT								
	FURNITURE	10,047,342	SQ	20	2,637,160	7,410,182	11.80	627,981	6.25%

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2026	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
	COMPUTERS AND PERIPHERAL EQUIPMENT	22,888,705	SQ	5	9,250,048	13,638,657	2.10	6,494,599	28.37%
	COMPUTER SOFTWARE	88,254,943	SQ	5	33,961,388	54,293,555	2.30	23,605,893	26.75%
	COMPUTER SOFTWARE - ENTERPRISE SOLUTIONS	696,707	SQ	10	505,030	191,677	2.00	95,839	13.76%
	OTHER OFFICE EQUIPMENT	58,898	SQ	10	6,407	52,491	4.70	11,168	18.96%
	TOTAL ACCOUNT 340.00	121,946,595			46,360,033	75,586,562	2.45	30,835,481	25.29%
341.00	TRANSPORATION EQUIPMENT								
	NOT CLASSIFIED	38,598	L2.5	10	7,882	30,716	8.78	3,498	9.06%
	LIGHT DUTY TRUCKS	82,028,853	L2.5	10	46,569,736	35,459,117	6.27	5,655,362	6.89%
	EQUIPMENT	15,276,635	L2.5	10	14,562,296	714,339	4.10	174,229	1.14%
	AUTOS	2,022,390	L2.5	10	2,022,390	0			
	OTHER	7,685,814	L2.5	10	7,221,254	464,560	4.22	110,085	1.43%
	TOTAL ACCOUNT 341.00	107,052,291			70,383,558	36,668,733	6.17	5,943,174	5.55%
342.00	STORES EQUIPMENT	477,263	SQ	20	161,753	315,510	10.60	29,765	6.24%
343.00	TOOLS AND WORK EQUIPMENT	82,457,474	SQ	20	19,387,098	63,070,376	14.40	4,379,887	5.31%
344.00	LABORATORY EQUIPMENT	2,539,077	SQ	20	866,063	1,673,014	7.90	211,774	8.34%
345.00	POWER OPERATED EQUIPMENT	3,091,859	S0.5	21	1,785,262	1,306,597	11.20	116,660	3.77%
346.00	COMUNICATION EQUIPMENT								
	EQUIPMENT	5,520,780	SQ	15	1,347,776	4,173,004	11.40	366,053	6.63%
	NON-TELEPHONE	13,878,764	SQ	15	3,585,121	10,293,643	10.50	980,347	7.06%
	REMOTE CONTROL AND INSTRUMENTATION	12,716,949	SQ	10	3,337,980	9,378,969	7.40	1,267,428	9.97%
	TELEPHONE	213,745	SQ	10	143,617	70,128	2.70	25,973	12.15%
	TOTAL ACCOUNT 346.00	32,330,238			8,414,494	23,915,744	9.06	2,639,801	8.17%
347.00	MISCELLANEOUS EQUIPMENT	28,099,483	SQ	25	7,890,954	20,208,529	16.80	1,202,889	4.28%
348.00	OTHER TANGIBLE EQUIPMENT	14,545,575	SQ	25	855,364	13,690,211	22.70	603,093	4.15%
	Total Water Operations	7,377,544,075			1,474,327,027	5,903,217,048	37.46	157,589,083	2.14%
	Wastewater Sanitary Sewer System (SSS)								
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	12,274,079	R3	45	648,304	11,625,775	41.38	280,952	2.29%
354.30	STRUCTURES AND IMPROVEMENTS - SPP	28,946,012	S0	55	8,083,706	20,862,306	43.43	480,366	1.66%
354.40	STRUCTURES AND IMPROVEMENTS - TDP	296,544,707	S0	55	101,958,645	194,586,062	34.42	5,653,285	1.91%
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	8,027,455	S1	35	2,368,525	5,658,930	29.65	190,858	2.38%
355.00	POWER GENERATION EQUIPMENT	7,137,994	S0.5	35	3,800,401	3,337,593	23.80	140,235	1.96%
360.10	COLLECTION SEWERS - FORCE MAINS	46,364,017	R3	75	7,998,825	38,365,192	59.10	649,157	1.40%
361.10	COLLECTION SEWERS - GRAVITY MAINS	254,095,190	R2.5	80	54,982,334	199,112,856	57.71	3,450,231	1.36%
361.20	MANHOLES	47,699,869	S2.5	50	15,235,074	32,464,795	27.27	1,190,495	2.50%
363.00	SERVICES	64,832,866	R3	47	27,613,021	37,219,845	25.55	1,456,745	2.25%

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2026	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
364.00	FLOW MEASURING DEVICES	724,745	L2.5	15	511,642	213,103	6.49	32,836	4.53%
365.00	FLOW MEASURING INSTALLATIONS	272,564	S2	25	272,455	109	3.61	30	0.01%
370.00	RECEIVING WELLS	677,388	R3	50	90,120	587,268	41.52	14,144	2.09%
371.00	PUMPING EQUIPMENT	20,392,676	S0.5	30	4,546,419	15,846,257	23.29	680,389	3.34%
380.00	TREATMENT EQUIPMENT	151,948,874	S1.5	35	38,413,871	113,535,003	23.08	4,919,194	3.24%
381.00	PLANT SEWERS	6,624,603	R3	50	1,996,641	4,627,962	34.99	132,265	2.00%
382.00	OUTFALL SEWER LINES	626,996	R3	50	273,844	353,152	29.80	11,851	1.89%
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT - INTANGIBLES	2,659,061	S2.5	20	657,026	2,002,035	16.02	124,971	4.70%
390.00	OFFICE FURNITURE AND EQUIPMENT	3,634,697	SQ	20	426,356	3,208,341	16.90	189,843	5.22%
391.00	TRANSPORTATION EQUIPMENT	4,786,161	L4	14	1,737,049	3,049,112	8.87	343,756	7.18%
392.00	STORES EQUIPMENT	107,351	SQ	25	47,013	60,338	13.70	4,404	4.10%
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	1,663,556	SQ	20	531,316	1,132,240	14.10	80,301	4.83%
394.00	LABORATORY EQUIPMENT	863,406	SQ	15	240,081	623,325	6.80	91,665	10.62%
395.00	POWER OPERATED EQUIPMENT	427,100	R2	22	296,921	130,179	11.64	11,184	2.62%
396.00	COMMUNICATION EQUIPMENT	4,157,904	SQ	15	1,218,856	2,939,048	10.00	293,905	7.07%
397.00	MISCELLANEOUS EQUIPMENT	1,871,658	SQ	15	653,562	1,218,096	11.10	109,738	5.86%
398.00	OTHER TANGIBLE PLANT	2,515,100	SQ	25	57,987	2,457,113	24.70	99,478	3.96%
	Total Wastewater Sanitary Sewer System	969,876,030			274,659,994	695,216,036	33.70	20,632,278	2.13%
	Butler Area Sewer Authority (BASA)								
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	465,513	R3	43	4,236	461,277	42.75	10,790	2.32%
354.30	STRUCTURES AND IMPROVEMENTS - SPP	36,968,125	S0	55	1,654,675	35,313,450	42.46	831,687	2.25%
354.40	STRUCTURES AND IMPROVEMENTS - TDP	17,268,436	S0	55	769,760	16,498,676	28.12	586,724	3.40%
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	7,747,804	S1	35	402,414	7,345,390	41.90	175,308	2.26%
355.00	POWER GENERATING EQUIPMENT	1,312,066	S0.5	35	94,927	1,217,139	22.45	54,216	4.13%
360.10	COLLECTION SEWERS - FORCE MAINS	8,438,180	R3	75	132,420	8,305,760	47.60	174,491	2.07%
361.10	COLLECTION SEWERS - GRAVITY MAINS	87,578,225	R2.5	80	3,657,900	83,920,325	41.79	2,008,144	2.29%
361.20	MANHOLES	12,188,944	S2.5	50	1,454,357	10,734,587	18.52	579,621	4.76%
363.00	SERVICES	12,222,470	R3	47	1,554,196	10,668,274	19.62	543,745	4.45%
364.00	FLOW MEASURING DEVICES	237,618	L2.5	15	87,280	150,338	4.33	34,720	14.61%
371.00	PUMPING EQUIPMENT	6,807,186	S0.5	30	771,534	6,035,652	17.20	350,910	5.15%
380.00	TREATMENT EQUIPMENT	25,634,017	S1.5	35	2,718,923	22,915,094	18.62	1,230,671	4.80%
382.00	OUTFALL SEWER LINES	73,525	R3	50	13,684	59,841	5.99	9,990	13.59%
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT - INTANGIBLES	445,667	S2.5	20	11,142	434,525	19.75	22,001	4.94%
390.00	OFFICE FURNITURE AND EQUIPMENT	280,503	SQ	20	18,131	262,372	17.60	14,908	5.31%
391.00	TRANSPORTATION EQUIPMENT	673,949	L4	14	129,250	544,699	9.15	59,530	8.83%
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	385,042	SQ	20	4,285	380,757	19.20	19,831	5.15%
394.00	LABORATORY EQUIPMENT	57,417	SQ	20	1,915	55,502	14.70	3,776	6.58%
395.00	POWER OPERATED EQUIPMENT	651,788	R2	22	89,383	562,405	15.11	37,221	5.71%
396.00	COMMUNICATION EQUIPMENT	938,448	SQ	15	43,204	895,244	11.30	79,225	8.44%

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2026	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
397.00	MISCELLANEOUS EQUIPMENT	87,575	SQ	15	5,433	82,142	13.30	6,176	7.05%
	Total Butler Area Sewer Authority	220,462,501			13,619,049	206,843,452	30.27	6,833,684	3.10%
	Wastewater Combined Sewer System (CSS)								
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	45,811,236	R3	45	3,254,276	42,556,960	42.26	1,007,027	2.20%
354.30	STRUCTURES AND IMPROVEMENTS - SPP	25,842,327	S0	55	8,547,965	17,294,362	42.21	409,722	1.59%
354.40	STRUCTURES AND IMPROVEMENTS - TDP	134,343,428	S0	55	60,890,483	73,452,945	37.74	1,946,289	1.45%
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	580,901	S1	35	5,460	575,441	34.13	16,860	2.90%
355.00	POWER GENERATING EQUIPMENT	4,132,797	S0.5	35	546,012	3,586,785	31.28	114,667	2.77%
360.10	COLLECTION SEWERS - FORCE MAINS	18,338,501	R3	75	1,304,933	17,033,568	69.97	243,441	1.33%
361.10	COLLECTION SEWERS - GRAVITY MAINS	430,657,642	R2.5	80	162,224,309	268,433,333	52.96	5,068,605	1.18%
361.20	MANHOLES	46,202,436	S2.5	50	17,826,828	28,375,608	26.45	1,072,802	2.32%
363.00	SERVICES	19,377,899	R3	47	5,605,508	13,772,391	31.31	439,872	2.27%
364.00	FLOW MEASURING DEVICES	2,607,930	L2.5	15	1,291,714	1,316,216	8.57	153,584	5.89%
371.00	PUMPING EQUIPMENT	18,747,261	S0.5	30	6,237,126	12,510,135	22.10	566,069	3.02%
380.00	TREATMENT EQUIPMENT	86,460,163	S1.5	35	34,601,283	51,858,880	21.80	2,378,848	2.75%
381.00	PLANT SEWERS	1,576,345	R3	50	894,142	682,203	25.00	27,288	1.73%
382.00	OUTFALL SEWER LINES	499,404	R3	50	78,129	421,275	45.21	9,318	1.87%
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT	10,813,551	S2.5	20	4,439,311	6,374,240	12.09	527,232	4.88%
390.00	OFFICE FURNITURE AND EQUIPMENT	4,194,872	SQ	20	929,496	3,265,376	14.20	229,956	5.48%
391.00	TRANSPORTATION EQUIPMENT	10,490,097	L4	14	5,283,039	5,207,058	7.46	697,997	6.65%
392.00	STORES EQUIPMENT	176,309	SQ	25	29,593	146,716	20.00	7,336	4.16%
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	5,393,193	SQ	20	1,181,998	4,211,195	16.10	261,565	4.85%
394.00	LABORATORY EQUIPMENT	2,906,362	SQ	15	322,319	2,584,043	13.70	188,616	6.49%
395.00	POWER OPERATED EQUIPMENT	2,309,684	R2	22	1,182,561	1,127,123	13.65	82,573	3.58%
396.00	COMMUNICATION EQUIPMENT	3,033,833	SQ	15	1,347,460	1,686,373	7.60	221,891	7.31%
397.00	MISCELLANEOUS EQUIPMENT	2,857,284	SQ	15	1,009,373	1,847,911	9.30	198,700	6.95%
	Total Wastewater Combined Sewer System	877,353,456			319,033,318	558,320,138	35.18	15,870,260	1.81%
	Elizabeth Borough Wastewater								
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	204,838	R3	45	717	204,121	21.90	9,321	4.55%
354.30	STRUCTURES AND IMPROVEMENTS - SPP	6,131,131	S0	55	27,869	6,103,262	51.36	118,833	1.94%
354.40	STRUCTURES AND IMPROVEMENTS - TDP	1,561,716	S0	55	7,099	1,554,617	33.70	46,131	2.95%
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	44,831	S1	35	101	44,730	13.21	3,386	7.55%
355.00	POWER GENERATING EQUIPMENT	126,051	S0.5	35	901	125,150	31.28	4,001	3.17%
360.10	COLLECTION SEWERS - FORCE MAINS	289,282	R3	75	651	288,631	71.11	4,059	1.40%
361.10	COLLECTION SEWERS - GRAVITY MAINS	12,250,747	R2.5	80	36,504	12,214,243	58.07	210,337	1.72%

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2026	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
361.20	MANHOLES	420,172	S2.5	50	425	419,747	21.31	19,697	4.69%
363.00	SERVICES	12,000	R3	47	64	11,936	46.75	255	2.13%
364.00	FLOW MEASURING DEVICES	466,102	L2.5	15	7,769	458,333	7.10	64,554	13.85%
370.00	RECEIVING WELLS	181,963	R3	50	910	181,053	46.08	3,929	2.16%
371.00	PUMPING EQUIPMENT	1,182,839	S0.5	30	9,509	1,173,330	25.64	45,762	3.87%
380.00	TREATMENT EQUIPMENT	1,648,981	S1.5	35	10,880	1,638,101	25.20	65,004	3.94%
381.00	PLANT SEWERS	1,288,883	R3	50	6,445	1,282,438	38.03	33,722	2.62%
382.00	OUTFALL SEWER LINES	2,828	R3	50	14	2,814	46.08	61	2.16%
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT - INTANGIBLES	11,608	S2.5	20	145	11,463	13.20	868	7.48%
390.00	OFFICE FURNITURE AND EQUIPMENT	58,891	SQ	20	-317	59,208	14.80	4,001	6.79%
391.00	TRANSPORTATION EQUIPMENT	47,639	L4	14	851	46,788	4.89	9,568	20.08%
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	506,530	SQ	20	-6,466	512,996	8.00	64,125	12.66%
394.00	LABORATORY EQUIPMENT	22,808	SQ	15	-3,526	26,334	2.90	9,081	39.81%
395.00	POWER OPERATED EQUIPMENT	1,425	R2	22	16	1,409	1.35	1,043	73.24%
396.00	COMMUNICATION EQUIPMENT	168,797	SQ	15	2,814	165,983	11.30	14,689	8.70%
	Total Elizabeth Borough Wastewater	26,630,061			103,375	26,526,686	36.22	732,425	2.75%
	TOTAL PLANT STUDIED	**9,471,866,123**			**2,081,742,763**	**7,390,123,360**	**36.65**	**201,657,731**	**2.13%**

[1], [3] From Company depreciation study

[2] Average life and Iowa curve shape developed through actuarial analysis and professional judgment

[4] = [1] - [3]

[5] Composite remaining life based on Iowa cuve in [2]; see remaining life exhibit for detailed calculations

[6] = [4] / [5]; (some unadjusted figures may be hard coded to match Company proposal)

[7] = [6] / [1]; (some unadjusted figures may hard coded to match Company proposal)

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2027	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
	Water Operations							
303.14	WATER RIGHTS - HIBERNIA	1,942,823	0.00%	0	0.00%	0	0.00%	0
303.35	WASTE HANDLING AND TREATMENT LAND	155,025	0.95%	1,468	0.20%	305	-0.75%	-1,163
303.99	COMPREHENSIVE PLANNING STUDIES	16,371,260	7.60%	1,244,093	7.75%	1,268,334	0.15%	24,241
304.15	OTHER WATER SOURCE STRUCTURES	123,448,677	2.70%	3,334,713	1.98%	2,447,812	-0.72%	-886,901
304.20	POWER AND PUMING STRUCTURES							
	LARGE STRUCTURES	56,902,089	2.91%	1,657,990	1.32%	749,804	-1.59%	-908,186
	OTHER STRUCTURES	80,622,784	2.54%	2,045,543	2.05%	1,653,184	-0.49%	-392,359
	TOTAL ACCOUNT 304.20	137,524,873	2.69%	3,703,533	1.75%	2,402,988	-0.95%	-1,300,545
304.30	PURIFICATION BUILDINGS							
	LARGE STRUCTURES	446,975,678	2.52%	11,285,566	1.74%	7,776,339	-0.78%	-3,509,227
	OTHER STRUCTURES	79,818,178	1.83%	1,463,015	1.61%	1,288,132	-0.22%	-174,883
	TOTAL ACCOUNT 304.30	526,793,857	2.42%	12,748,581	1.72%	9,064,471	-0.70%	-3,684,110
304.36	WASTE HANDLING AND TREATMENT STRUCTURES	28,441,582	3.55%	1,010,812	3.56%	1,011,755	0.01%	943
304.38	WASTE HANDLING AND TREATMENT STRUCTURES PAINTING	1,403,439	9.40%	131,904	9.40%	131,904	0.00%	0
304.39	PURIFICATION BUILDINGS - TANK PAINTING	968,752	8.70%	84,275	8.70%	84,275	0.00%	0
304.61	OFFICE BUILDINGS							
	LARGE STRUCTURES	29,028,974	3.56%	1,033,559	1.45%	421,228	-2.11%	-612,331
	OTHER OTHER STRUCTURES	15,321,845	2.16%	331,492	1.93%	296,184	-0.23%	-35,308
	TOTAL ACCOUNT 304.61	44,350,819	3.08%	1,365,051	1.62%	717,413	-1.46%	-647,638
304.62	STORES, SHOP AND GARAGE BUILDINGS							
	LARGE STRUCTURES	59,397,332	2.33%	1,383,448	1.41%	834,548	-0.92%	-548,900
	OTHER OTHER STRUCTURES	14,056,881	1.96%	275,922	1.94%	273,079	-0.02%	-2,843
	TOTAL ACCOUNT 304.62	73,454,212	2.26%	1,659,370	1.51%	1,107,627	-0.75%	-551,743
304.65	MISCELLANEOUS STRUCTURES AND IMPROVEMENTS	6,231,993	1.13%	70,315	0.96%	59,908	-0.17%	-10,407
305.00	COLLECTING AND IMPOUNDING RESERVOIRS							
	LARGE RESERVOIRS	180,995,576	1.43%	2,596,022	1.44%	2,597,843	0.01%	1,821
	OTHER RESERVOIRS	11,419,519	1.58%	180,570	1.36%	155,612	-0.22%	-24,958
	TOTAL ACCOUNT 305.00	192,415,095	1.44%	2,776,592	1.43%	2,753,455	-0.01%	-23,137

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2027	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
306.00	LAKE, RIVER AND OTHER INTAKES							
	LARGE RESERVOIRS	12,329,112	2.21%	272,718	1.81%	223,512	-0.40%	-49,206
	OTHER RESERVOIRS	8,189,556	2.57%	210,270	1.95%	159,504	-0.62%	-50,766
	TOTAL ACCOUNT 306.00	20,518,669	2.35%	482,988	1.87%	383,016	-0.49%	-99,972
307.00	WELLS AND SPRINGS	14,361,759	2.12%	305,094	1.61%	230,562	-0.51%	-74,532
310.00	POWER GENERATION EQUIPMENT	26,827,956	2.50%	671,718	1.92%	514,545	-0.58%	-157,173
	PUMPING EQUIPMENT							
311.20	ELECTRIC PUMPING EQUIPMENT	27,390,102	3.27%	895,902	2.31%	631,497	-0.96%	-264,405
311.50	OTHER	32,503,724	3.81%	1,237,149	2.54%	824,141	-1.27%	-413,008
311.52	SOURCE OF SUPPLY	11,405,625	3.02%	344,801	2.25%	256,488	-0.77%	-88,313
311.53	WATER TREATMENT	48,154,022	2.52%	1,214,043	2.13%	1,025,516	-0.39%	-188,527
311.54	TRANSMISSION AND DISTRIBUTION	9,832,787	3.06%	300,917	2.27%	223,588	-0.79%	-77,329
	TOTAL ACCOUNT 311.00	129,286,260	3.09%	3,992,812	2.29%	2,961,229	-0.80%	-1,031,583
	PURIFICATION SYSTEM							
320.10	LARGE STRUCTURES	293,129,033	2.64%	7,730,498	1.79%	5,254,302	-0.85%	-2,476,196
320.11	OTHER LARGE STRUCTURES	21,108,698	2.03%	429,455	1.96%	412,862	-0.07%	-16,593
	TOTAL ACCOUNT 320.10	314,237,731	2.60%	8,159,953	1.80%	5,667,164	-0.79%	-2,492,789
	ACCOUNT 320.00							
320.18	LARGE STRUCTURES PAINT	103,246	0.00%	0	0.00%	0	0.00%	0
320.19	LARGE STRUCTURES PAINT	4,370,191	3.64%	159,203	3.62%	158,010	-0.02%	-1,193
320.20	CHEMICAL TREATMENT	167,570,515	3.13%	5,243,263	2.03%	3,401,145	-1.10%	-1,842,118
320.29	CHEMICAL TREATMENT PAINT	8,168	0.00%	0	0.00%	0	0.00%	0
320.30	GRANULAR ACTIVATED CARBON	24,011,056	8.47%	2,034,065	6.46%	1,551,961	-2.01%	-482,104
320.37	WASTE HANDLING AND TREATMENT - EQUIPMENT	20,634,881	2.47%	509,089	2.87%	592,201	0.40%	83,112
	TOTAL ACCOUNT 320.00	216,698,056	3.67%	7,945,620	2.63%	5,703,316	-1.03%	-2,242,304
	ACCOUNT 330.00							
330.00	DISTRIBUTION RESERVOIRS AND STANDPIPES	165,939,183	1.76%	2,923,561	1.36%	2,257,242	-0.40%	-666,319
330.10	ELEVATED TANKS AND STANDPIPES	18,098,701	1.95%	353,449	1.43%	258,928	-0.52%	-94,521
330.20	GROUND LEVEL FACILITIES	19,120,765	1.91%	364,457	1.41%	269,405	-0.50%	-95,052
330.30	BELOW GRADE FACILITIES	818,707	1.85%	15,142	1.38%	11,324	-0.47%	-3,818
330.40	CLEARWELL	19,670,178	1.96%	385,806	1.44%	283,158	-0.52%	-102,648
330.58	DISTRIBUTION RESERVOIRS AND STANDPIPES - PAINTING	2,918,574	2.45%	71,535	2.44%	71,172	-0.01%	-363

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2027	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
330.59	DISTRIBUTION RESERVOIRS AND STANDPIPES - PAINTING	53,416,355	6.09%	3,252,002	6.06%	3,237,668	-0.03%	-14,334
	TOTAL ACCOUNT 330.00	279,982,464	2.63%	7,365,952	2.28%	6,388,897	-0.35%	-977,055
331.00	MAINS AND ACCESSORIES	3,874,948,430	1.48%	57,427,671	1.14%	44,048,629	-0.34%	-13,379,042
333.00	SERVICES	903,158,434	1.91%	17,277,194	1.56%	14,133,847	-0.35%	-3,143,347
334.00	METERS AND METER INSTALLATIONS	336,237,510	6.04%	20,302,642	4.60%	15,476,132	-1.44%	-4,826,510
335.00	FIRE HYDRANTS	171,565,288	2.20%	3,773,506	1.71%	2,941,035	-0.49%	-832,471
340.00	OFFICE FURNITURE AND EQUIPMENT							
	FURNITURE	10,028,093	5.98%	600,090	6.01%	602,745	0.03%	2,655
	COMPUTERS AND PERIPHERAL EQUIPMENT	24,026,537	26.20%	6,294,551	25.61%	6,153,064	-0.59%	-141,487
	COMPUTER SOFTWARE	82,506,778	27.38%	22,591,585	27.94%	23,052,800	0.56%	461,215
	COMPUTER SOFTWARE - ENTERPRISE SOLUTIONS	6,584,096	9.96%	655,483	9.99%	657,870	0.03%	2,387
	OTHER OFFICE EQUIPMENT	37,508	22.13%	8,302	21.93%	8,225	-0.20%	-77
	TOTAL ACCOUNT 340.00	123,183,013	24.48%	30,150,011	24.74%	30,474,704	0.26%	324,693
341.00	TRANSPORATION EQUIPMENT							
	NOT CLASSIFIED	38,598	10.65%	4,111	8.73%	3,369	-1.92%	-742
	LIGHT DUTY TRUCKS	87,782,007	7.89%	6,924,709	6.82%	5,984,424	-1.07%	-940,285
	EQUIPMENT	15,276,635	1.02%	155,768	0.88%	134,611	-0.14%	-21,157
	AUTOS	2,022,390	0.00%	0	0.00%	0	0.00%	0
	OTHER	7,685,814	1.14%	87,798	1.20%	92,435	0.06%	4,637
	TOTAL ACCOUNT 341.00	112,805,445	6.36%	7,172,386	5.51%	6,214,839	-0.85%	-957,547
342.00	STORES EQUIPMENT	477,134	6.43%	30,698	6.44%	30,728	0.01%	30
343.00	TOOLS AND WORK EQUIPMENT	89,135,730	5.24%	4,666,300	5.25%	4,680,370	0.01%	14,070
344.00	LABORATORY EQUIPMENT	2,409,469	7.52%	181,076	7.51%	181,035	-0.01%	-41
345.00	POWER OPERATED EQUIPMENT	3,091,859	3.55%	109,779	3.59%	111,073	0.04%	1,294
346.00	COMUNICATION EQUIPMENT							
	EQUIPMENT	5,520,521	6.19%	341,816	6.21%	342,753	0.02%	937
	NON-TELEPHONE	16,484,383	7.10%	1,169,873	7.07%	1,165,305	-0.03%	-4,568
	REMOTE CONTROL AND INSTRUMENTATION	19,797,455	10.39%	2,057,010	10.40%	2,059,404	0.01%	2,394
	TELEPHONE	191,017	12.03%	22,985	12.31%	23,520	0.28%	535
	TOTAL ACCOUNT 346.00	41,993,377	8.55%	3,591,684	8.55%	3,590,982	0.00%	-702
347.00	MISCELLANEOUS EQUIPMENT	27,210,868	4.46%	1,212,380	4.46%	1,213,298	0.00%	918
348.00	OTHER TANGIBLE EQUIPMENT	29,260,575	4.09%	1,197,868	4.10%	1,199,583	0.01%	1,715

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2027	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
	Total Water Operations	7,870,892,434	2.59%	204,148,039	2.12%	167,195,229	-0.47%	-36,952,810
	Wastewater Sanitary Sewer System (SSS)							
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	13,810,053	2.64%	364,608	2.28%	315,274	-0.36%	-49,334
354.30	STRUCTURES AND IMPROVEMENTS - SPP	28,946,012	2.23%	645,352	1.63%	471,714	-0.60%	-173,638
354.40	STRUCTURES AND IMPROVEMENTS - TDP	296,544,707	2.38%	7,064,864	1.87%	5,532,619	-0.51%	-1,532,245
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	8,266,302	2.98%	246,323	2.39%	197,914	-0.59%	-48,409
355.00	POWER GENERATION EQUIPMENT	7,137,994	2.30%	163,924	1.92%	136,848	-0.38%	-27,076
360.10	COLLECTION SEWERS - FORCE MAINS	59,439,411	1.71%	1,017,252	1.45%	861,011	-0.26%	-156,241
361.10	COLLECTION SEWERS - GRAVITY MAINS	259,890,456	1.65%	4,283,621	1.35%	3,495,583	-0.30%	-788,038
361.20	MANHOLES	49,602,157	3.75%	1,857,619	2.40%	1,192,295	-1.35%	-665,324
363.00	SERVICES	75,766,904	3.37%	2,554,203	2.32%	1,754,770	-1.05%	-799,433
364.00	FLOW MEASURING DEVICES	724,745	4.43%	32,108	3.92%	28,381	-0.51%	-3,727
365.00	FLOW MEASURING INSTALLATIONS	272,564	0.00%	13	0.01%	33	0.01%	20
370.00	RECEIVING WELLS	677,388	2.38%	16,137	2.08%	14,075	-0.30%	-2,062
371.00	PUMPING EQUIPMENT	20,702,725	4.31%	892,077	3.25%	673,081	-1.06%	-218,996
380.00	TREATMENT EQUIPMENT	156,696,457	3.96%	6,202,424	3.15%	4,932,618	-0.81%	-1,269,806
381.00	PLANT SEWERS	6,624,603	2.26%	149,534	1.98%	131,364	-0.28%	-18,170
382.00	OUTFALL SEWER LINES	626,996	2.08%	13,060	1.87%	11,726	-0.21%	-1,334
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT - INTANGIBLES	2,659,061	5.13%	136,280	4.65%	123,598	-0.48%	-12,682
390.00	OFFICE FURNITURE AND EQUIPMENT	3,634,697	5.23%	190,172	5.22%	189,650	-0.01%	-522
391.00	TRANSPORTATION EQUIPMENT	5,081,403	7.69%	391,009	7.03%	357,142	-0.66%	-33,867
392.00	STORES EQUIPMENT	107,351	4.11%	4,409	4.10%	4,403	-0.01%	-6
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	1,873,739	5.39%	100,964	5.37%	100,601	-0.02%	-363
394.00	LABORATORY EQUIPMENT	932,413	9.85%	91,884	9.82%	91,590	-0.03%	-294
395.00	POWER OPERATED EQUIPMENT	427,100	2.68%	11,459	2.50%	10,684	-0.18%	-775
396.00	COMMUNICATION EQUIPMENT	4,276,685	7.09%	303,026	7.11%	303,964	0.02%	938
397.00	MISCELLANEOUS EQUIPMENT	1,896,881	5.95%	112,791	5.94%	112,623	-0.01%	-168
398.00	OTHER TANGIBLE PLANT	2,515,100	3.91%	98,366	3.91%	98,240	0.00%	-126
	Total Wastewater Sanitary Sewer System	1,009,133,906	2.67%	26,943,479	2.10%	21,141,801	-0.57%	-5,801,678
	Butler Area Sewer Authority (BASA)							

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2027	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	23,381,312	2.61%	610,153	2.31%	539,158	-0.30%	-70,995
354.30	STRUCTURES AND IMPROVEMENTS - SPP	36,968,125	3.05%	1,128,128	2.21%	817,245	-0.84%	-310,883
354.40	STRUCTURES AND IMPROVEMENTS - TDP	17,268,436	4.08%	703,940	3.30%	569,637	-0.78%	-134,303
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	8,298,055	6.28%	521,474	2.11%	175,501	-4.17%	-345,973
355.00	POWER GENERATING EQUIPMENT	1,312,066	5.12%	67,116	4.01%	52,606	-1.11%	-14,510
360.10	COLLECTION SEWERS - FORCE MAINS	8,441,561	2.56%	215,908	2.05%	173,005	-0.51%	-42,903
361.10	COLLECTION SEWERS - GRAVITY MAINS	95,428,998	3.00%	2,863,464	2.11%	2,009,548	-0.89%	-853,916
361.20	MANHOLES	12,276,905	7.98%	979,592	4.30%	527,966	-3.68%	-451,626
363.00	SERVICES	12,569,796	9.53%	1,197,712	3.87%	486,443	-5.66%	-711,269
364.00	FLOW MEASURING DEVICES	237,618	14.19%	33,722	10.29%	24,460	-3.90%	-9,262
371.00	PUMPING EQUIPMENT	7,170,373	7.19%	515,562	4.73%	339,221	-2.46%	-176,341
380.00	TREATMENT EQUIPMENT	26,570,655	7.04%	1,871,462	4.43%	1,177,039	-2.61%	-694,423
382.00	OUTFALL SEWER LINES	73,525	12.04%	8,850	11.76%	8,648	-0.28%	-202
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT - INTANGIBLES	4,091,000	5.55%	227,204	5.02%	205,456	-0.53%	-21,748
390.00	OFFICE FURNITURE AND EQUIPMENT	280,503	5.30%	14,861	5.28%	14,819	-0.02%	-42
391.00	TRANSPORTATION EQUIPMENT	673,949	10.28%	69,289	8.27%	55,745	-2.01%	-13,544
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	683,106	5.06%	34,552	5.06%	34,544	0.00%	-8
394.00	LABORATORY EQUIPMENT	184,648	6.56%	12,106	6.57%	12,124	0.01%	18
395.00	POWER OPERATED EQUIPMENT	651,788	7.76%	50,560	5.42%	35,316	-2.34%	-15,244
396.00	COMMUNICATION EQUIPMENT	2,247,233	7.32%	164,477	7.32%	164,450	0.00%	-27
397.00	MISCELLANEOUS EQUIPMENT	122,962	7.31%	8,986	7.30%	8,979	-0.01%	-7
	Total Butler Area Sewer Authority	258,932,616	4.36%	11,299,118	2.87%	7,431,909	-1.49%	-3,867,209
	Wastewater Combined Sewer System (CSS)							
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	52,302,493	2.54%	1,327,476	2.19%	1,146,597	-0.35%	-180,879
354.30	STRUCTURES AND IMPROVEMENTS - SPP	25,842,327	2.08%	537,518	1.56%	402,938	-0.52%	-134,580
354.40	STRUCTURES AND IMPROVEMENTS - TDP	134,343,428	1.77%	2,374,439	1.42%	1,908,520	-0.35%	-465,919
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	916,528	3.79%	34,744	2.96%	27,090	-0.83%	-7,654
355.00	POWER GENERATING EQUIPMENT	4,132,797	3.73%	154,298	2.73%	112,729	-1.00%	-41,569
360.10	COLLECTION SEWERS - FORCE MAINS	19,554,789	1.53%	298,964	1.32%	258,441	-0.21%	-40,523
361.10	COLLECTION SEWERS - GRAVITY MAINS	441,638,854	1.36%	5,989,231	1.17%	5,167,690	-0.19%	-821,541
361.20	MANHOLES	47,437,035	3.13%	1,483,337	2.20%	1,044,873	-0.93%	-438,464
363.00	SERVICES	20,405,389	2.82%	574,455	2.24%	457,587	-0.58%	-116,868
364.00	FLOW MEASURING DEVICES	2,607,930	6.78%	176,827	5.35%	139,652	-1.43%	-37,175
371.00	PUMPING EQUIPMENT	20,823,241	3.87%	806,722	3.00%	624,990	-0.87%	-181,732

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2027	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
380.00	TREATMENT EQUIPMENT	103,007,636	3.13%	3,227,436	2.73%	2,812,755	-0.40%	-414,681
381.00	PLANT SEWERS	1,576,345	1.90%	29,957	1.71%	26,927	-0.19%	-3,030
382.00	OUTFALL SEWER LINES	2,024,404	2.38%	48,219	2.04%	41,328	-0.34%	-6,891
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT	10,813,551	5.48%	592,899	4.72%	510,476	-0.76%	-82,423
390.00	OFFICE FURNITURE AND EQUIPMENT	4,194,872	5.46%	228,937	5.46%	229,044	0.00%	107
391.00	TRANSPORTATION EQUIPMENT	10,874,996	6.46%	702,850	6.44%	700,252	-0.02%	-2,598
392.00	STORES EQUIPMENT	176,309	4.13%	7,284	4.12%	7,265	-0.01%	-19
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	5,677,987	4.86%	275,751	4.87%	276,453	0.01%	702
394.00	LABORATORY EQUIPMENT	3,175,548	6.55%	207,985	6.56%	208,471	0.01%	486
395.00	POWER OPERATED EQUIPMENT	2,309,684	3.83%	88,397	3.45%	79,630	-0.38%	-8,767
396.00	COMMUNICATION EQUIPMENT	3,214,063	7.29%	234,374	7.29%	234,411	0.00%	37
397.00	MISCELLANEOUS EQUIPMENT	2,898,822	6.91%	200,247	6.94%	201,036	0.03%	789
	Total Wastewater Combined Sewer System	919,949,031	2.13%	19,602,347	1.81%	16,619,156	-0.32%	-2,983,191
	Elizabeth Borough Wastewater							
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	214,034	5.10%	10,925	4.27%	9,146	-0.83%	-1,779
354.30	STRUCTURES AND IMPROVEMENTS - SPP	6,131,131	2.87%	176,191	1.91%	117,217	-0.96%	-58,974
354.40	STRUCTURES AND IMPROVEMENTS - TDP	1,561,716	3.88%	60,599	2.88%	45,016	-1.00%	-15,583
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	50,411	8.07%	4,069	6.01%	3,029	-2.06%	-1,040
355.00	POWER GENERATING EQUIPMENT	126,051	4.28%	5,395	3.12%	3,933	-1.16%	-1,462
360.10	COLLECTION SEWERS - FORCE MAINS	297,382	1.62%	4,812	1.40%	4,169	-0.22%	-643
361.10	COLLECTION SEWERS - GRAVITY MAINS	12,311,491	2.24%	276,194	1.70%	209,230	-0.54%	-66,964
361.20	MANHOLES	463,372	9.86%	45,709	3.75%	17,365	-6.11%	-28,344
363.00	SERVICES	48,000	2.50%	1,199	2.12%	1,019	-0.38%	-180
364.00	FLOW MEASURING DEVICES	466,102	16.76%	78,138	11.62%	54,172	-5.14%	-23,966
370.00	RECEIVING WELLS	181,963	2.47%	4,497	2.15%	3,913	-0.32%	-584
371.00	PUMPING EQUIPMENT	1,191,674	5.74%	68,364	3.75%	44,638	-1.99%	-23,726
380.00	TREATMENT EQUIPMENT	2,750,486	5.38%	147,926	3.32%	91,231	-2.06%	-56,695
381.00	PLANT SEWERS	1,288,883	3.26%	41,970	2.59%	33,383	-0.67%	-8,587
382.00	OUTFALL SEWER LINES	2,828	2.48%	70	2.15%	61	-0.33%	-9
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT - INTANGIBLES	11,608	8.49%	986	7.32%	850	-1.17%	-136
390.00	OFFICE FURNITURE AND EQUIPMENT	83,891	6.28%	5,265	6.28%	5,273	0.00%	8
391.00	TRANSPORTATION EQUIPMENT	47,639	23.27%	11,086	15.11%	7,200	-8.16%	-3,886
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	531,030	12.22%	64,916	12.17%	64,633	-0.05%	-283
394.00	LABORATORY EQUIPMENT	29,808	29.00%	8,643	29.54%	8,806	0.54%	163

Detailed Rate Comparison - 2025

		[1]	[2]		[3]		[4]	
			PAWC Position		OCA Position		OCA Adjustment	
Account No.	Description	Plant 6/30/2027	Rate	Annual Accrual	Rate	Annual Accrual	Rate	Annual Accrual
395.00	POWER OPERATED EQUIPMENT	1,425	14.67%	209	13.68%	195	-0.99%	-14
396.00	COMMUNICATION EQUIPMENT	218,797	8.27%	18,099	8.26%	18,074	-0.01%	-25
397.00	MISCELLANEOUS EQUIPMENT	3,500	6.80%	238	6.82%	239	0.02%	1
	Total Elizabeth Borough Wastewater	28,013,222	3.70%	1,035,500	2.65%	742,790	-1.04%	-292,710
	TOTAL PLANT STUDIED	**10,086,921,209**	**2.61%**	**263,028,483**	**2.11%**	**213,130,885**	**-0.49%**	**-49,897,598**

[1], [2] From Company depreciation study

[3] From Exhibit DJG-23

[4] = [3] - [2]

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2027	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
	Water Operations								
303.14	WATER RIGHTS - HIBERNIA	1,942,823	SQ	25	1,942,823	0			
303.35	WASTE HANDLING AND TREATMENT LAND	155,025	R3	100	134,809	20,216	66.35	305	0.20%
303.99	COMPREHENSIVE PLANNING STUDIES	16,371,260	SQ	5	13,327,260	3,044,000	2.40	1,268,334	7.75%
304.15	OTHER WATER SOURCE STRUCTURES	123,448,677	S0.5	50	19,563,527	103,885,150	42.44	2,447,812	1.98%
304.20	POWER AND PUMING STRUCTURES								
	LARGE STRUCTURES	56,902,089	S0.5	75	12,341,242	44,560,847	59.43	749,804	1.32%
	OTHER STRUCTURES	80,622,784	R3	55	12,957,946	67,664,838	40.93	1,653,184	2.05%
	TOTAL ACCOUNT 304.20	137,524,873			25,299,188	112,225,685	46.70	2,402,988	1.75%
304.30	PURIFICATION BUILDINGS								
	LARGE STRUCTURES	446,975,678	S1	55	130,945,249	316,030,429	40.64	7,776,339	1.74%
	OTHER STRUCTURES	79,818,178	R3	60	17,498,361	62,319,817	48.38	1,288,132	1.61%
	TOTAL ACCOUNT 304.30	526,793,857			148,443,610	378,350,247	41.74	9,064,471	1.72%
304.36	WASTE HANDLING AND TREATMENT STRUCTURES	28,441,582	S1	55	9,825,291	18,616,291	18.40	1,011,755	3.56%
304.38	WASTE HANDLING AND TREATMENT STRUCTURES PAINTING	1,403,439	SQ	10	875,824	527,615	4.00	131,904	9.40%
304.39	PURIFICATION BUILDINGS - TANK PAINTING	968,752	SQ	10	463,103	505,649	6.00	84,275	8.70%
304.61	OFFICE BUILDINGS								
	LARGE STRUCTURES	29,028,974	S0	55	9,917,838	19,111,136	45.37	421,228	1.45%
	OTHER OTHER STRUCTURES	15,321,845	R3	50	5,070,910	10,250,935	34.61	296,184	1.93%
	TOTAL ACCOUNT 304.61	44,350,819			14,988,748	29,362,071	40.93	717,413	1.62%
304.62	STORES, SHOP AND GARAGE BUILDINGS								
	LARGE STRUCTURES	59,397,332	S0.5	55	21,575,638	37,821,694	45.32	834,548	1.41%
	OTHER OTHER STRUCTURES	14,056,881	R3	45	4,690,258	9,366,623	34.30	273,079	1.94%
	TOTAL ACCOUNT 304.62	73,454,212			26,265,896	47,188,316	42.60	1,107,627	1.51%
304.65	MISCELLANEOUS STRUCTURES AND IMPROVEMENTS	6,231,993	S0.5	35	4,586,916	1,645,077	27.46	59,908	0.96%
305.00	COLLECTING AND IMPOUNDING RESERVOIRS								
	LARGE RESERVOIRS	180,995,576	R2	130	22,527,171	158,468,405	61.00	2,597,843	1.44%
	OTHER RESERVOIRS	11,419,519	R3	75	1,352,984	10,066,535	64.69	155,612	1.36%
	TOTAL ACCOUNT 305.00	192,415,095			23,880,155	168,534,940	61.21	2,753,455	1.43%
306.00	LAKE, RIVER AND OTHER INTAKES								
	LARGE RESERVOIRS	12,329,112	S1.5	55	5,871,850	6,457,262	28.89	223,512	1.81%
	OTHER RESERVOIRS	8,189,556	S0.5	50	2,189,022	6,000,534	37.62	159,504	1.95%
	TOTAL ACCOUNT 306.00	20,518,669			8,060,872	12,457,797	32.53	383,016	1.87%

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2027	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
307.00	WELLS AND SPRINGS	14,361,759	S0	55	5,289,150	9,072,609	39.35	230,562	1.61%
310.00	POWER GENERATION EQUIPMENT	26,827,956	S0.5	45	8,911,505	17,916,451	34.82	514,545	1.92%
	PUMPING EQUIPMENT								
311.20	ELECTRIC PUMPING EQUIPMENT	27,390,102	S0	39	7,081,155	20,308,947	32.16	631,497	2.31%
311.50	OTHER	32,503,724	S0	39	3,329,148	29,174,576	35.40	824,141	2.54%
311.52	SOURCE OF SUPPLY	11,405,625	S0	39	3,803,321	7,602,304	29.64	256,488	2.25%
311.53	WATER TREATMENT	48,154,022	S0	39	28,566,664	19,587,358	19.10	1,025,516	2.13%
311.54	TRANSMISSION AND DISTRIBUTION	9,832,787	S0	39	3,292,848	6,539,939	29.25	223,588	2.27%
	TOTAL ACCOUNT 311.00	129,286,260			46,073,136	83,213,124	28.10	2,961,229	2.29%
	PURIFICATION SYSTEM								
320.10	LARGE STRUCTURES	293,129,033	S1	50	101,452,087	191,676,946	36.48	5,254,302	1.79%
320.11	OTHER LARGE STRUCTURES	21,108,698	R3	55	5,052,491	16,056,207	38.89	412,862	1.96%
	TOTAL ACCOUNT 320.10	314,237,731			106,504,578	207,733,153	36.66	5,667,164	1.80%
	ACCOUNT 320.00								
320.18	LARGE STRUCTURES PAINT	103,246	SQ	10	103,246	0			
320.19	LARGE STRUCTURES PAINT	4,370,191	SQ	10	3,595,944	774,247	4.90	158,010	3.62%
320.20	CHEMICAL TREATMENT	167,570,515	R0.5	42	48,496,440	119,074,075	35.01	3,401,145	2.03%
320.29	CHEMICAL TREATMENT PAINT	8,168			8,168	0			
320.30	GRANULAR ACTIVATED CARBON	24,011,056	L0.5	11	12,899,016	11,112,040	7.16	1,551,961	6.46%
320.37	WASTE HANDLING AND TREATMENT - EQUIPMENT	20,634,881	R3	30	11,526,826	9,108,055	15.38	592,201	2.87%
	TOTAL ACCOUNT 320.00	216,698,056			76,629,640	140,068,416	24.56	5,703,316	2.63%
	ACCOUNT 330.00								
330.00	DISTRIBUTION RESERVOIRS AND STANDPIPES	165,939,183	S0.5	65	53,054,521	112,884,662	50.01	2,257,242	1.36%
330.10	ELEVATED TANKS AND STANDPIPES	18,098,701	S0.5	65	3,647,939	14,450,762	55.81	258,928	1.43%
330.20	GROUND LEVEL FACILITIES	19,120,765	S0.5	65	4,502,857	14,617,908	54.26	269,405	1.41%
330.30	BELOW GRADE FACILITIES	818,707	S0.5	65	226,261	592,446	52.32	11,324	1.38%
330.40	CLEARWELL	19,670,178	S0.5	65	3,983,199	15,686,979	55.40	283,158	1.44%
330.58	DISTRIBUTION RESERVOIRS AND STANDPIPES - PAINTING	2,918,574	SQ	10	2,441,720	476,854	6.70	71,172	2.44%
330.59	DISTRIBUTION RESERVOIRS AND STANDPIPES - PAINTING	53,416,355	SQ	10	35,285,415	18,130,940	5.60	3,237,668	6.06%
	TOTAL ACCOUNT 330.00	279,982,464			103,141,912	176,840,552	27.68	6,388,897	2.28%
331.00	MAINS AND ACCESSORIES	3,874,948,430	R2	90	495,097,115	3,379,851,315	76.73	44,048,629	1.14%
333.00	SERVICES	903,158,434	R2.5	65	174,275,927	728,882,507	51.57	14,133,847	1.56%
334.00	METERS AND METER INSTALLATIONS	336,237,510	L1.5	20	111,988,357	224,249,153	14.49	15,476,132	4.60%
335.00	FIRE HYDRANTS	171,565,288	R2	60	28,748,652	142,816,636	48.56	2,941,035	1.71%
340.00	OFFICE FURNITURE AND EQUIPMENT								
	FURNITURE	10,028,093	SQ	20	3,277,350	6,750,743	11.20	602,745	6.01%

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2027	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
	COMPUTERS AND PERIPHERAL EQUIPMENT	24,026,537	SQ	5	11,720,410	12,306,127	2.00	6,153,064	25.61%
	COMPUTER SOFTWARE	82,506,778	SQ	5	36,401,179	46,105,599	2.00	23,052,800	27.94%
	COMPUTER SOFTWARE - ENTERPRISE SOLUTIONS	6,584,096	SQ	10	794,836	5,789,260	8.80	657,870	9.99%
	OTHER OFFICE EQUIPMENT	37,508	SQ	10	6,252	31,256	3.80	8,225	21.93%
	TOTAL ACCOUNT 340.00	123,183,013			52,200,027	70,982,986	2.33	30,474,704	24.74%
341.00	TRANSPORATION EQUIPMENT								
	NOT CLASSIFIED	38,598	L2.5	10	12,082	26,516	7.87	3,369	8.73%
	LIGHT DUTY TRUCKS	87,782,007	L2.5	10	52,533,751	35,248,256	5.89	5,984,424	6.82%
	EQUIPMENT	15,276,635	L2.5	10	14,762,420	514,215	3.82	134,611	0.88%
	AUTOS	2,022,390	L2.5	10	2,022,390	0			
	OTHER	7,685,814	L2.5	10	7,323,470	362,344	3.92	92,435	1.20%
	TOTAL ACCOUNT 341.00	112,805,445			76,654,113	36,151,332	5.82	6,214,839	5.51%
342.00	STORES EQUIPMENT	477,134	SQ	20	191,361	285,773	9.30	30,728	6.44%
343.00	TOOLS AND WORK EQUIPMENT	89,135,730	SQ	20	23,610,554	65,525,176	14.00	4,680,370	5.25%
344.00	LABORATORY EQUIPMENT	2,409,469	SQ	20	943,085	1,466,384	8.10	181,035	7.51%
345.00	POWER OPERATED EQUIPMENT	3,091,859	S0.5	21	1,905,602	1,186,257	10.68	111,073	3.59%
346.00	COMUNICATION EQUIPMENT								
	EQUIPMENT	5,520,521	SQ	15	1,818,790	3,701,731	10.80	342,753	6.21%
	NON-TELEPHONE	16,484,383	SQ	15	4,598,270	11,886,113	10.20	1,165,305	7.07%
	REMOTE CONTROL AND INSTRUMENTATION	19,797,455	SQ	10	4,145,987	15,651,468	7.60	2,059,404	10.40%
	TELEPHONE	191,017	SQ	10	141,625	49,392	2.10	23,520	12.31%
	TOTAL ACCOUNT 346.00	41,993,377			10,704,672	31,288,705	8.71	3,590,982	8.55%
347.00	MISCELLANEOUS EQUIPMENT	27,210,868	SQ	25	7,798,107	19,412,761	16.00	1,213,298	4.46%
348.00	OTHER TANGIBLE EQUIPMENT	29,260,575	SQ	25	1,550,209	27,710,366	23.10	1,199,583	4.10%
	Total Water Operations	7,870,892,434			1,629,875,724	6,241,016,710	37.33	167,195,229	2.12%
	Wastewater Sanitary Sewer System (SSS)								
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	13,810,053	R3	45	934,282	12,875,771	40.84	315,274	2.28%
354.30	STRUCTURES AND IMPROVEMENTS - SPP	28,946,012	S0	55	8,784,976	20,161,036	42.74	471,714	1.63%
354.40	STRUCTURES AND IMPROVEMENTS - TDP	296,544,707	S0	55	109,265,549	187,279,158	33.85	5,532,619	1.87%
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	8,266,302	S1	35	2,536,679	5,729,623	28.95	197,914	2.39%
355.00	POWER GENERATION EQUIPMENT	7,137,994	S0.5	35	3,971,322	3,166,672	23.14	136,848	1.92%
360.10	COLLECTION SEWERS - FORCE MAINS	59,439,411	R3	75	5,815,631	53,623,780	62.28	861,011	1.45%
361.10	COLLECTION SEWERS - GRAVITY MAINS	259,890,456	R2.5	80	59,104,148	200,786,308	57.44	3,495,583	1.35%
361.20	MANHOLES	49,602,157	S2.5	50	16,682,889	32,919,268	27.61	1,192,295	2.40%
363.00	SERVICES	75,766,904	R3	47	25,299,717	50,467,187	28.76	1,754,770	2.32%

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2027	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
364.00	FLOW MEASURING DEVICES	724,745	L2.5	15	550,486	174,259	6.14	28,381	3.92%
365.00	FLOW MEASURING INSTALLATIONS	272,564	S2	25	272,455	109	3.33	33	0.01%
370.00	RECEIVING WELLS	677,388	R3	50	106,380	571,008	40.57	14,075	2.08%
371.00	PUMPING EQUIPMENT	20,702,725	S0.5	30	5,450,715	15,252,010	22.66	673,081	3.25%
380.00	TREATMENT EQUIPMENT	156,696,457	S1.5	35	44,775,359	111,921,098	22.69	4,932,618	3.15%
381.00	PLANT SEWERS	6,624,603	R3	50	2,147,727	4,476,876	34.08	131,364	1.98%
382.00	OUTFALL SEWER LINES	626,996	R3	50	287,404	339,592	28.96	11,726	1.87%
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT - INTANGIBLES	2,659,061	S2.5	20	793,974	1,865,087	15.09	123,598	4.65%
390.00	OFFICE FURNITURE AND EQUIPMENT	3,634,697	SQ	20	619,264	3,015,433	15.90	189,650	5.22%
391.00	TRANSPORTATION EQUIPMENT	5,081,403	L4	14	2,120,697	2,960,706	8.29	357,142	7.03%
392.00	STORES EQUIPMENT	107,351	SQ	25	51,429	55,922	12.70	4,403	4.10%
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	1,873,739	SQ	20	495,501	1,378,238	13.70	100,601	5.37%
394.00	LABORATORY EQUIPMENT	932,413	SQ	15	318,763	613,650	6.70	91,590	9.82%
395.00	POWER OPERATED EQUIPMENT	427,100	R2	22	310,008	117,092	10.96	10,684	2.50%
396.00	COMMUNICATION EQUIPMENT	4,276,685	SQ	15	1,510,608	2,766,077	9.10	303,964	7.11%
397.00	MISCELLANEOUS EQUIPMENT	1,896,881	SQ	15	748,123	1,148,758	10.20	112,623	5.94%
398.00	OTHER TANGIBLE PLANT	2,515,100	SQ	25	157,340	2,357,760	24.00	98,240	3.91%
	Total Wastewater Sanitary Sewer System	1,009,133,906			293,111,426	716,022,480	33.87	21,141,801	2.10%
	Butler Area Sewer Authority (BASA)								
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	23,381,312	R3	43	337,687	23,043,625	42.74	539,158	2.31%
354.30	STRUCTURES AND IMPROVEMENTS - SPP	36,968,125	S0	55	2,815,471	34,152,654	41.79	817,245	2.21%
354.40	STRUCTURES AND IMPROVEMENTS - TDP	17,268,436	S0	55	1,535,068	15,733,368	27.62	569,637	3.30%
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	8,298,055	S1	35	879,612	7,418,443	42.27	175,501	2.11%
355.00	POWER GENERATING EQUIPMENT	1,312,066	S0.5	35	164,731	1,147,335	21.81	52,606	4.01%
360.10	COLLECTION SEWERS - FORCE MAINS	8,441,561	R3	75	351,848	8,089,713	46.76	173,005	2.05%
361.10	COLLECTION SEWERS - GRAVITY MAINS	95,428,998	R2.5	80	6,325,640	89,103,358	44.34	2,009,548	2.11%
361.20	MANHOLES	12,276,905	S2.5	50	2,551,770	9,725,135	18.42	527,966	4.30%
363.00	SERVICES	12,569,796	R3	47	2,845,798	9,723,998	19.99	486,443	3.87%
364.00	FLOW MEASURING DEVICES	237,618	L2.5	15	138,556	99,062	4.05	24,460	10.29%
371.00	PUMPING EQUIPMENT	7,170,373	S0.5	30	1,244,178	5,926,195	17.47	339,221	4.73%
380.00	TREATMENT EQUIPMENT	26,570,655	S1.5	35	4,501,179	22,069,476	18.75	1,177,039	4.43%
382.00	OUTFALL SEWER LINES	73,525	R3	50	24,233	49,292	5.70	8,648	11.76%
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT - INTANGIBLES	4,091,000	S2.5	20	49,673	4,041,327	19.67	205,456	5.02%
390.00	OFFICE FURNITURE AND EQUIPMENT	280,503	SQ	20	33,029	247,474	16.70	14,819	5.28%
391.00	TRANSPORTATION EQUIPMENT	673,949	L4	14	209,590	464,359	8.33	55,745	8.27%
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	683,106	SQ	20	30,232	652,874	18.90	34,544	5.06%
394.00	LABORATORY EQUIPMENT	184,648	SQ	20	8,852	175,796	14.50	12,124	6.57%
395.00	POWER OPERATED EQUIPMENT	651,788	R2	22	144,657	507,131	14.36	35,316	5.42%
396.00	COMMUNICATION EQUIPMENT	2,247,233	SQ	15	142,276	2,104,957	12.80	164,450	7.32%

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2027	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
397.00	MISCELLANEOUS EQUIPMENT	122,962	SQ	15	5,339	117,623	13.10	8,979	7.30%
	Total Butler Area Sewer Authority	258,932,616			24,339,419	234,593,197	31.57	7,431,909	2.87%
	Wastewater Combined Sewer System (CSS)								
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	52,302,493	R3	45	4,466,454	47,836,039	41.72	1,146,597	2.19%
354.30	STRUCTURES AND IMPROVEMENTS - SPP	25,842,327	S0	55	9,108,324	16,734,003	41.53	402,938	1.56%
354.40	STRUCTURES AND IMPROVEMENTS - TDP	134,343,428	S0	55	63,499,153	70,844,275	37.12	1,908,520	1.42%
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	916,528	S1	35	6,569	909,959	33.59	27,090	2.96%
355.00	POWER GENERATING EQUIPMENT	4,132,797	S0.5	35	704,712	3,428,085	30.41	112,729	2.73%
360.10	COLLECTION SEWERS - FORCE MAINS	19,554,789	R3	75	1,616,379	17,938,410	69.41	258,441	1.32%
361.10	COLLECTION SEWERS - GRAVITY MAINS	441,638,854	R2.5	80	168,216,360	273,422,494	52.91	5,167,690	1.17%
361.20	MANHOLES	47,437,035	S2.5	50	19,747,906	27,689,129	26.50	1,044,873	2.20%
363.00	SERVICES	20,405,389	R3	47	6,032,582	14,372,807	31.41	457,587	2.24%
364.00	FLOW MEASURING DEVICES	2,607,930	L2.5	15	1,486,522	1,121,408	8.03	139,652	5.35%
371.00	PUMPING EQUIPMENT	20,823,241	S0.5	30	6,960,958	13,862,283	22.18	624,990	3.00%
380.00	TREATMENT EQUIPMENT	103,007,636	S1.5	35	37,386,065	65,621,571	23.33	2,812,755	2.73%
381.00	PLANT SEWERS	1,576,345	R3	50	924,718	651,627	24.20	26,927	1.71%
382.00	OUTFALL SEWER LINES	2,024,404	R3	50	40,235	1,984,169	48.01	41,328	2.04%
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT	10,813,551	S2.5	20	5,050,279	5,763,272	11.29	510,476	4.72%
390.00	OFFICE FURNITURE AND EQUIPMENT	4,194,872	SQ	20	1,171,495	3,023,377	13.20	229,044	5.46%
391.00	TRANSPORTATION EQUIPMENT	10,874,996	L4	14	6,015,248	4,859,748	6.94	700,252	6.44%
392.00	STORES EQUIPMENT	176,309	SQ	25	37,539	138,770	19.10	7,265	4.12%
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	5,677,987	SQ	20	1,448,258	4,229,729	15.30	276,453	4.87%
394.00	LABORATORY EQUIPMENT	3,175,548	SQ	15	507,125	2,668,423	12.80	208,471	6.56%
395.00	POWER OPERATED EQUIPMENT	2,309,684	R2	22	1,280,867	1,028,817	12.92	79,630	3.45%
396.00	COMMUNICATION EQUIPMENT	3,214,063	SQ	15	1,573,184	1,640,879	7.00	234,411	7.29%
397.00	MISCELLANEOUS EQUIPMENT	2,898,822	SQ	15	1,210,118	1,688,704	8.40	201,036	6.94%
	Total Wastewater Combined Sewer System	919,949,031			338,491,050	581,457,981	34.99	16,619,156	1.81%
	Elizabeth Borough Wastewater								
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	214,034	R3	45	10,816	203,218	22.22	9,146	4.27%
354.30	STRUCTURES AND IMPROVEMENTS - SPP	6,131,131	S0	55	209,345	5,921,786	50.52	117,217	1.91%
354.40	STRUCTURES AND IMPROVEMENTS - TDP	1,561,716	S0	55	69,883	1,491,833	33.14	45,016	2.88%
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	50,411	S1	35	3,918	46,493	15.35	3,029	6.01%
355.00	POWER GENERATING EQUIPMENT	126,051	S0.5	35	6,433	119,618	30.41	3,933	3.12%
360.10	COLLECTION SEWERS - FORCE MAINS	297,382	R3	75	4,486	292,896	70.26	4,169	1.40%
361.10	COLLECTION SEWERS - GRAVITY MAINS	12,311,491	R2.5	80	312,137	11,999,354	57.35	209,230	1.70%

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2027	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
361.20	MANHOLES	463,372	S2.5	50	57,020	406,352	23.40	17,365	3.75%
363.00	SERVICES	48,000	R3	47	821	47,179	46.29	1,019	2.12%
364.00	FLOW MEASURING DEVICES	466,102	L2.5	15	102,065	364,037	6.72	54,172	11.62%
370.00	RECEIVING WELLS	181,963	R3	50	5,458	176,505	45.11	3,913	2.15%
371.00	PUMPING EQUIPMENT	1,191,674	S0.5	30	82,426	1,109,248	24.85	44,638	3.75%
380.00	TREATMENT EQUIPMENT	2,750,486	S1.5	35	151,325	2,599,161	28.49	91,231	3.32%
381.00	PLANT SEWERS	1,288,883	R3	50	49,369	1,239,514	37.13	33,383	2.59%
382.00	OUTFALL SEWER LINES	2,828	R3	50	86	2,742	45.11	61	2.15%
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT - INTANGIBLES	11,608	S2.5	20	1,141	10,467	12.32	850	7.32%
390.00	OFFICE FURNITURE AND EQUIPMENT	83,891	SQ	20	3,749	80,142	15.20	5,273	6.28%
391.00	TRANSPORTATION EQUIPMENT	47,639	L4	14	16,393	31,246	4.34	7,200	15.11%
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	531,030	SQ	20	59,208	471,822	7.30	64,633	12.17%
394.00	LABORATORY EQUIPMENT	29,808	SQ	15	6,912	22,896	2.60	8,806	29.54%
395.00	POWER OPERATED EQUIPMENT	1,425	R2	22	1,216	209	1.07	195	13.68%
396.00	COMMUNICATION EQUIPMENT	218,797	SQ	15	18,174	200,623	11.10	18,074	8.26%
397.00	MISCELLANEOUS EQUIPMENT	3,500	SQ	15	111	3,389	14.20	239	6.82%
	Total Elizabeth Borough Wastewater	28,013,222			1,172,492	26,840,730	36.14	742,790	2.65%
	TOTAL PLANT STUDIED	**10,086,921,209**			**2,286,990,111**	**7,799,931,098**	**36.60**	**213,130,885**	**2.11%**

[1], [3] From Company depreciation study

[2] Average life and Iowa curve shape developed through actuarial analysis and professional judgment

[4] = [1] - [3]

[5] Composite remaining life based on Iowa cuve in [2]; see remaining life exhibit for detailed calculations

[6] = [4] / [5]; (some unadjusted figures may be hard coded to match Company proposal)

[7] = [6] / [1]; (some unadjusted figures may hard coded to match Company proposal)

PAWC - Water Operations
Water Operations
303.35 Waste Handling

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *100* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1991	70,430.00	100.00	704.30	67.66	47,652.79
1992	84,595.17	100.00	845.95	68.56	58,000.73
Total	155,025.17	100.00	1,550.25	68.15	105,653.51

Composite Average Remaining Life ... 68.15 Years

PAWC - Water Operations
Water Operations
304.15 Other Water Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1905	20,000.00	0.00	0.00	0.00	0.00
1962	3,046.99	50.00	60.94	12.82	781.05
1965	40,502.68	50.00	810.05	13.95	11,299.22
1966	20,825.96	50.00	416.52	14.33	5,969.90
1967	270.30	50.00	5.41	14.72	79.58
1968	13,568.76	50.00	271.37	15.11	4,101.01
1969	631.00	50.00	12.62	15.51	195.70
1970	1,609.62	50.00	32.19	15.91	512.07
1971	11,357.68	50.00	227.15	16.31	3,704.88
1972	19,891.30	50.00	397.83	16.72	6,650.75
1973	102.13	50.00	2.04	17.13	34.99
1974	11,058.14	50.00	221.16	17.55	3,880.66
1975	3,360.08	50.00	67.20	17.97	1,207.48
1977	2,198.00	50.00	43.96	18.83	827.58
1978	1,550.08	50.00	31.00	19.26	597.16
1979	66,916.71	50.00	1,338.33	19.70	26,370.89
1980	50,476.77	50.00	1,009.53	20.15	20,343.91
1981	175,270.37	50.00	3,505.40	20.60	72,228.79
1982	5,146.13	50.00	102.92	21.06	2,167.97
1983	23,321.00	50.00	466.42	21.53	10,041.69
1984	402.00	50.00	8.04	22.00	176.89
1985	61,463.99	50.00	1,229.28	22.48	27,632.68
1986	65,149.35	50.00	1,302.99	22.96	29,921.05
1987	194.55	50.00	3.89	23.46	91.26
1988	5,314.89	50.00	106.30	23.95	2,546.22
1989	105,571.50	50.00	2,111.43	24.46	51,644.98
1990	167,225.90	50.00	3,344.51	24.97	83,523.71

PAWC - Water Operations
Water Operations
304.15 Other Water Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1991	515,689.12	50.00	10,313.77	25.49	262,946.97
1992	303,462.34	50.00	6,069.24	26.02	157,947.14
1993	140,489.27	50.00	2,809.78	26.56	74,633.30
1994	1,280,944.74	50.00	25,618.87	27.11	694,482.75
1995	208,091.31	50.00	4,161.82	27.66	115,130.04
1996	365,775.62	50.00	7,315.50	28.23	206,499.02
1997	26,226.70	50.00	524.53	28.80	15,107.17
1998	254,653.48	50.00	5,093.06	29.38	149,656.51
1999	142,608.54	50.00	2,852.17	29.98	85,500.97
2000	129,853.55	50.00	2,597.07	30.58	79,420.77
2001	1,161.48	50.00	23.23	31.19	724.64
2002	707,111.64	50.00	14,142.22	31.82	450,000.74
2003	1,932,009.71	50.00	38,640.15	32.46	1,254,090.95
2004	254,159.61	50.00	5,083.19	33.10	168,269.29
2005	974,587.19	50.00	19,491.72	33.76	658,087.64
2006	499,272.53	50.00	9,985.44	34.43	343,837.38
2007	1,551,026.95	50.00	31,020.51	35.12	1,089,373.52
2008	1,232,651.52	50.00	24,653.00	35.81	882,939.61
2009	228,603.44	50.00	4,572.06	36.52	166,993.34
2010	11,303,442.33	50.00	226,068.61	37.25	8,420,675.39
2011	250,029.38	50.00	5,000.58	37.99	189,951.31
2012	328,899.24	50.00	6,577.98	38.74	254,815.37
2013	2,948,687.90	50.00	58,973.70	39.50	2,329,702.51
2014	1,358,349.72	50.00	27,166.97	40.29	1,094,436.55
2015	863,430.65	50.00	17,268.59	41.08	709,435.68
2016	1,876,787.12	50.00	37,535.70	41.90	1,572,560.18
2017	1,914,619.65	50.00	38,292.35	42.72	1,635,995.79

PAWC - Water Operations
Water Operations
304.15 Other Water Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2018	17,474,447.65	50.00	349,488.58	43.57	15,226,919.46
2019	3,311,981.47	50.00	66,239.56	44.43	2,943,118.95
2020	5,258,970.84	50.00	105,179.30	45.31	4,765,797.21
2021	5,208,379.09	50.00	104,167.47	46.21	4,813,459.47
2022	14,305,441.54	50.00	286,108.53	47.13	13,482,912.35
2023	22,362,828.43	50.00	447,256.09	48.06	21,495,584.73
2024	12,035,825.08	50.00	240,716.24	49.02	11,799,420.57
2025	11,014,913.92	50.00	220,298.04	49.75	10,959,591.54
Total	123,441,838.63	49.19	2,468,434.14	44.12	108,916,550.87

Composite Average Remaining Life ... 44.12 Years

PAWC - Water Operations
Water Operations
304.21 Pumping Structures - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1962	15,878.73	75.00	211.72	32.29	6,836.72
1970	6,710.06	75.00	89.47	36.18	3,237.02
1990	1,277,952.17	75.00	17,039.37	47.41	807,889.37
1993	1,121,355.16	75.00	14,951.41	49.33	737,505.80
1994	88,730.90	75.00	1,183.08	49.98	59,132.75
1995	1,715,454.62	75.00	22,872.74	50.64	1,158,338.80
1997	4,494,042.69	75.00	59,920.59	51.99	3,115,306.19
1998	79,054.11	75.00	1,054.06	52.68	55,523.43
1999	4,650,691.72	75.00	62,009.25	53.37	3,309,392.78
2001	34,327.61	75.00	457.70	54.79	25,075.83
2003	2,358,291.93	75.00	31,443.90	56.24	1,768,374.18
2004	146,294.31	75.00	1,950.59	56.98	111,141.14
2005	11,236.00	75.00	149.81	57.73	8,648.15
2006	10,710.36	75.00	142.80	58.49	8,352.29
2007	29,310.29	75.00	390.80	59.26	23,157.34
2008	97,884.43	75.00	1,305.13	60.03	78,350.76
2012	23,869,584.52	75.00	318,261.25	63.25	20,131,511.88
2013	8,780,477.29	75.00	117,073.08	64.09	7,502,674.64
2014	3,788,366.02	75.00	50,511.57	64.93	3,279,531.49
2015	114,587.76	75.00	1,527.84	65.78	100,505.02
2017	3,006.40	75.00	40.09	67.52	2,706.65
2018	8,073.07	75.00	107.64	68.41	7,364.06
2019	130,266.72	75.00	1,736.89	69.31	120,389.23
2021	4,068,632.96	75.00	54,248.46	71.15	3,859,945.23
2023	1,168.86	75.00	15.58	73.04	1,138.36

PAWC - Water Operations
Water Operations
304.21 Pumping Structures - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	56,902,088.69	75.00	758,694.81	61.00	46,282,029.11

Composite Average Remaining Life ... 61.00 Years

PAWC - Water Operations
Water Operations
304.22 Pumping Structures - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1901	7,495.63	0.00	0.00	0.00	0.00
1904	2,021.00	0.00	0.00	0.00	0.00
1905	5,507.85	0.00	0.00	0.00	0.00
1906	6,449.72	0.00	0.00	0.00	0.00
1908	7,657.66	0.00	0.00	0.00	0.00
1909	8,663.76	0.00	0.00	0.00	0.00
1910	13,836.00	0.00	0.00	0.00	0.00
1911	16,065.00	0.00	0.00	0.00	0.00
1912	1,348.87	0.00	0.00	0.00	0.00
1915	1,154.25	0.00	0.00	0.00	0.00
1918	33,974.06	0.00	0.00	0.00	0.00
1919	3,620.00	0.00	0.00	0.00	0.00
1920	5,563.30	0.00	0.00	0.00	0.00
1921	645.00	0.00	0.00	0.00	0.00
1922	11,541.92	0.00	0.00	0.00	0.00
1923	8,106.40	0.00	0.00	0.00	0.00
1924	35,623.67	0.00	0.00	0.00	0.00
1925	154.00	0.00	0.00	0.00	0.00
1926	525.00	0.00	0.00	0.00	0.00
1927	927.19	0.00	0.00	0.00	0.00
1928	3,768.38	0.00	0.00	0.00	0.00
1929	13,600.23	0.00	0.00	0.00	0.00
1930	4,309.44	0.00	0.00	0.00	0.00
1931	8,059.98	0.00	0.00	0.00	0.00
1932	4,338.00	0.00	0.00	0.00	0.00
1933	32.82	55.00	0.60	0.50	0.30
1934	216.34	55.00	3.93	0.62	2.46

PAWC - Water Operations
Water Operations
304.22 Pumping Structures - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1935	2,295.77	55.00	41.74	0.84	35.01
1936	1,269.17	55.00	23.08	1.00	23.07
1937	979.72	55.00	17.81	1.21	21.59
1938	3,229.30	55.00	58.71	1.44	84.62
1939	3,064.46	55.00	55.72	1.68	93.55
1940	267.00	55.00	4.85	1.94	9.43
1941	443.03	55.00	8.06	2.17	17.49
1942	4,109.17	55.00	74.71	2.41	180.24
1943	68.00	55.00	1.24	2.66	3.29
1944	653.45	55.00	11.88	2.91	34.63
1945	1,436.76	55.00	26.12	3.17	82.83
1946	473.00	55.00	8.60	3.44	29.57
1947	10,135.29	55.00	184.28	3.69	679.84
1948	71,909.00	55.00	1,307.44	3.94	5,154.91
1949	2,239.14	55.00	40.71	4.20	170.91
1950	515.26	55.00	9.37	4.45	41.73
1951	30,741.27	55.00	558.93	4.72	2,639.37
1952	12,157.42	55.00	221.04	4.98	1,099.97
1953	29,291.37	55.00	532.57	5.23	2,787.64
1954	153,376.90	55.00	2,788.67	5.50	15,329.34
1955	124,349.68	55.00	2,260.90	5.77	13,034.33
1956	27,347.64	55.00	497.23	6.04	3,003.04
1957	16,237.49	55.00	295.23	6.33	1,867.46
1958	14,583.18	55.00	265.15	6.61	1,753.35
1959	28,616.52	55.00	520.30	6.91	3,595.52
1960	21,287.75	55.00	387.05	7.22	2,794.36
1961	78,692.88	55.00	1,430.78	7.54	10,789.55

PAWC - Water Operations
Water Operations
304.22 Pumping Structures - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1962	774.72	55.00	14.09	7.88	110.96
1963	50,167.56	55.00	912.14	8.22	7,501.51
1964	387,401.33	55.00	7,043.66	8.59	60,477.48
1965	28,778.30	55.00	523.24	8.96	4,690.18
1966	68,818.27	55.00	1,251.24	9.36	11,708.25
1967	98,613.64	55.00	1,792.97	9.77	17,512.55
1968	21,839.15	55.00	397.08	10.19	4,047.39
1969	116,318.91	55.00	2,114.89	10.64	22,496.08
1970	46,047.59	55.00	837.23	11.10	9,291.81
1971	130,043.91	55.00	2,364.43	11.58	27,372.79
1972	104,004.21	55.00	1,890.99	12.07	22,829.33
1973	59,333.63	55.00	1,078.79	12.58	13,574.69
1974	125,142.06	55.00	2,275.31	13.11	29,838.90
1975	103,900.94	55.00	1,889.11	13.66	25,808.93
1976	48,590.64	55.00	883.47	14.23	12,568.32
1977	31,807.09	55.00	578.31	14.81	8,562.70
1978	91,500.15	55.00	1,663.64	15.40	25,623.90
1979	62,666.43	55.00	1,139.39	16.01	18,243.10
1980	120,802.83	55.00	2,196.41	16.64	36,545.19
1981	249,656.08	55.00	4,539.20	17.28	78,437.89
1982	214,679.67	55.00	3,903.27	17.94	70,006.93
1983	147,737.26	55.00	2,686.13	18.60	49,973.33
1984	132,167.58	55.00	2,403.05	19.28	46,338.70
1985	954,829.05	55.00	17,360.53	19.98	346,839.99
1986	214,775.45	55.00	3,905.01	20.69	80,778.91
1987	1,121,402.24	55.00	20,389.13	21.40	436,427.35
1988	356,067.30	55.00	6,473.95	22.14	143,301.47

PAWC - Water Operations
Water Operations
304.22 Pumping Structures - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1989	819,193.14	55.00	14,894.42	22.88	340,727.99
1990	1,932,384.78	55.00	35,134.26	23.63	830,091.86
1991	295,229.26	55.00	5,367.80	24.39	130,917.54
1992	1,853,412.02	55.00	33,698.39	25.16	847,938.50
1993	1,466,994.16	55.00	26,672.62	25.95	692,036.58
1994	244,001.25	55.00	4,436.39	26.74	118,621.08
1995	638,516.37	55.00	11,609.39	27.54	319,704.48
1996	979,400.05	55.00	17,807.27	28.35	504,848.17
1997	747,006.85	55.00	13,581.94	29.17	396,211.46
1998	625,815.51	55.00	11,378.46	30.00	341,377.32
1999	662,058.64	55.00	12,037.43	30.84	371,245.10
2000	1,708,892.51	55.00	31,070.77	31.69	984,579.24
2001	795,715.62	55.00	14,467.55	32.54	470,814.59
2002	225,944.33	55.00	4,108.08	33.41	137,240.32
2003	3,788,269.88	55.00	68,877.62	34.28	2,361,125.24
2004	336,569.81	55.00	6,119.45	35.16	215,161.85
2005	304,512.31	55.00	5,536.59	36.05	199,583.87
2006	3,483,159.23	55.00	63,330.16	36.94	2,339,546.72
2007	3,820,285.09	55.00	69,459.72	37.84	2,628,697.52
2008	1,101,192.65	55.00	20,021.68	38.75	775,931.42
2009	18,926.38	55.00	344.12	39.67	13,651.33
2010	215,319.67	55.00	3,914.90	40.59	158,918.40
2011	497,902.13	55.00	9,052.76	41.52	375,885.90
2012	574,544.31	55.00	10,446.26	42.46	443,497.35
2013	3,317,995.39	55.00	60,327.18	43.40	2,617,913.44
2014	1,855,236.86	55.00	33,731.57	44.34	1,495,675.24
2015	816,469.16	55.00	14,844.89	45.29	672,334.35

PAWC - Water Operations
Water Operations
304.22 Pumping Structures - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2016	3,078,007.17	55.00	55,963.76	46.25	2,588,061.45
2017	596,714.50	55.00	10,849.35	47.20	512,128.88
2018	2,925,998.53	55.00	53,199.96	48.17	2,562,481.56
2019	142,324.04	55.00	2,587.71	49.13	127,144.57
2020	2,322,863.69	55.00	42,233.88	50.10	2,116,108.05
2021	6,089,981.76	55.00	110,726.92	51.08	5,655,731.79
2022	783,173.17	55.00	14,239.51	52.05	741,235.20
2023	9,743,196.29	55.00	177,148.99	53.03	9,394,889.16
2024	2,909,170.42	55.00	52,894.00	54.02	2,857,112.36
2025	11,346,449.60	55.00	206,299.05	54.75	11,295,671.42
Total	78,995,667.61	43.35	1,432,558.14	42.10	60,311,109.32

Composite Average Remaining Life ... 42.10 Years

PAWC - Water Operations
Water Operations
304.31 Purification Buildings - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1900	690.28	0.00	0.00	0.00	0.00
1906	871.05	0.00	0.00	0.00	0.00
1910	955.96	0.00	0.00	0.00	0.00
1921	7,550.49	55.00	137.28	1.62	222.04
1924	65,855.77	55.00	1,197.38	2.44	2,923.66
1928	713.20	55.00	12.97	3.53	45.81
1930	44.14	55.00	0.80	4.10	3.29
1938	1,127.93	55.00	20.51	6.44	132.00
1951	429.84	55.00	7.82	10.57	82.62
1953	7,347.67	55.00	133.59	11.25	1,502.85
1954	63,503.27	55.00	1,154.60	11.59	13,386.34
1955	11,789.91	55.00	214.36	11.94	2,559.92
1958	1,894.04	55.00	34.44	13.01	448.02
1960	45.00	55.00	0.82	13.74	11.24
1961	26,097.98	55.00	474.51	14.11	6,695.82
1962	893.00	55.00	16.24	14.49	235.23
1963	541.00	55.00	9.84	14.87	146.24
1964	398.22	55.00	7.24	15.25	110.43
1965	321.42	55.00	5.84	15.64	91.40
1966	438.31	55.00	7.97	16.03	127.78
1967	22,777.88	55.00	414.14	16.43	6,805.48
1969	89,590.44	55.00	1,628.92	17.25	28,091.20
1970	358.00	55.00	6.51	17.66	114.95
1972	2,625.00	55.00	47.73	18.50	883.17
1973	6,492,918.63	55.00	118,053.07	18.94	2,235,385.10
1975	69,470.87	55.00	1,263.11	19.82	25,029.73
1976	3,042,618.84	55.00	55,320.35	20.27	1,121,109.48

PAWC - Water Operations
Water Operations
304.31 Purification Buildings - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1977	49,822.29	55.00	905.86	20.72	18,771.30
1978	89.00	55.00	1.62	21.19	34.28
1979	16,962.81	55.00	308.41	21.65	6,678.55
1980	10,568.86	55.00	192.16	22.13	4,252.87
1981	5,396.00	55.00	98.11	22.62	2,218.88
1982	364.13	55.00	6.62	23.11	152.99
1983	56,269.13	55.00	1,023.08	23.61	24,153.64
1984	44,668.70	55.00	812.16	24.12	19,585.83
1985	129,729.26	55.00	2,358.71	24.63	58,101.20
1986	56,314.64	55.00	1,023.90	25.16	25,759.24
1987	44,970.19	55.00	817.64	25.69	21,006.80
1988	6,104,219.17	55.00	110,985.81	26.24	2,911,725.96
1989	354,686.26	55.00	6,448.84	26.79	172,748.50
1990	18,290,076.26	55.00	332,546.86	27.35	9,094,552.85
1991	463,554.17	55.00	8,428.26	27.92	235,322.13
1992	10,159,569.23	55.00	184,719.45	28.50	5,265,092.95
1993	17,607,220.02	55.00	320,131.29	29.10	9,314,595.24
1994	594,840.73	55.00	10,815.29	29.70	321,212.57
1995	4,351,649.57	55.00	79,120.91	30.31	2,398,362.02
1996	404,065.68	55.00	7,346.65	30.94	227,301.05
1997	5,491,313.41	55.00	99,842.07	31.58	3,152,797.15
1998	141,383.91	55.00	2,570.62	32.23	82,846.36
1999	5,186,983.45	55.00	94,308.80	32.89	3,101,891.05
2000	2,176,079.42	55.00	39,565.08	33.57	1,328,038.09
2001	5,907,281.20	55.00	107,405.12	34.25	3,678,845.99
2002	747,232.76	55.00	13,586.05	34.95	474,887.92
2003	10,628,764.78	55.00	193,250.28	35.67	6,893,148.62

PAWC - Water Operations
Water Operations
304.31 Purification Buildings - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2004	1,370,640.88	55.00	24,920.74	36.40	907,082.91
2005	1,140,834.01	55.00	20,742.44	37.14	770,412.39
2006	16,569,424.04	55.00	301,262.28	37.90	11,416,865.76
2007	3,791,727.93	55.00	68,940.51	38.67	2,665,902.41
2008	1,026,287.09	55.00	18,659.77	39.46	736,260.01
2009	444,258.49	55.00	8,077.43	40.26	325,192.29
2010	4,979,255.16	55.00	90,531.92	41.08	3,718,746.42
2011	13,669,205.90	55.00	248,531.03	41.91	10,415,667.20
2012	49,857,456.27	55.00	906,499.27	42.75	38,756,796.70
2013	928,710.06	55.00	16,885.64	43.62	736,514.72
2014	2,458,636.81	55.00	44,702.49	44.50	1,989,091.30
2015	358,314.93	55.00	6,514.82	45.39	295,703.18
2016	1,590,034.14	55.00	28,909.71	46.30	1,338,430.48
2017	8,295,819.15	55.00	150,833.09	47.22	7,121,810.46
2018	38,883,963.65	55.00	706,981.20	48.15	34,043,049.70
2019	1,205,816.73	55.00	21,923.94	49.10	1,076,502.44
2020	258,862.35	55.00	4,706.59	50.06	235,624.10
2021	25,683,079.01	55.00	466,965.10	51.03	23,831,296.20
2022	23,084,001.30	55.00	419,709.14	52.02	21,831,521.18
2023	43,121,902.06	55.00	784,034.64	53.00	41,557,384.34
2024	4,423,762.65	55.00	80,432.05	54.00	4,343,377.73
2025	17,278,601.32	55.00	314,156.41	54.75	17,200,081.83
Total	359,356,537.10	52.83	6,533,709.89	42.49	277,593,541.57

Composite Average Remaining Life ... 42.49 Years

PAWC - Water Operations
Water Operations
304.32 Purification Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 60 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1901	56.00	0.00	0.00	0.00	0.00
1902	159.81	0.00	0.00	0.00	0.00
1903	1,923.01	0.00	0.00	0.00	0.00
1906	3,057.68	0.00	0.00	0.00	0.00
1908	527.18	0.00	0.00	0.00	0.00
1909	402.93	0.00	0.00	0.00	0.00
1912	225.80	0.00	0.00	0.00	0.00
1914	167.07	0.00	0.00	0.00	0.00
1915	41.89	0.00	0.00	0.00	0.00
1917	4.78	0.00	0.00	0.00	0.00
1918	0.15	0.00	0.00	0.00	0.00
1923	439.53	0.00	0.00	0.00	0.00
1924	2,693.29	60.00	44.89	0.50	22.44
1928	1,064.43	60.00	17.74	1.13	20.00
1929	3,035.89	60.00	50.60	1.32	66.55
1930	31.26	60.00	0.52	1.54	0.80
1931	1,166.36	60.00	19.44	1.80	35.04
1934	244.88	60.00	4.08	2.53	10.32
1935	341.69	60.00	5.69	2.77	15.75
1937	627.00	60.00	10.45	3.28	34.30
1940	50.89	60.00	0.85	4.05	3.43
1941	13.00	60.00	0.22	4.30	0.93
1943	134.03	60.00	2.23	4.82	10.76
1944	207.93	60.00	3.47	5.07	17.57
1946	1.00	60.00	0.02	5.59	0.09
1947	0.28	60.00	0.00	5.85	0.03
1948	131.33	60.00	2.19	6.12	13.39

PAWC - Water Operations
Water Operations
304.32 Purification Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 60 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1949	1,164.45	60.00	19.41	6.39	124.06
1951	4,026.00	60.00	67.10	6.95	466.08
1952	442.51	60.00	7.38	7.24	53.40
1953	1,371.29	60.00	22.85	7.54	172.27
1954	706.13	60.00	11.77	7.85	92.34
1955	51.47	60.00	0.86	8.17	7.01
1956	47.17	60.00	0.79	8.50	6.68
1957	259.31	60.00	4.32	8.84	38.21
1958	674.84	60.00	11.25	9.20	103.47
1959	61.56	60.00	1.03	9.57	9.82
1960	21.49	60.00	0.36	9.95	3.57
1961	36.31	60.00	0.61	10.35	6.27
1962	405.68	60.00	6.76	10.77	72.81
1963	625.74	60.00	10.43	11.20	116.80
1964	183.99	60.00	3.07	11.64	35.71
1965	157.93	60.00	2.63	12.11	31.87
1966	432.12	60.00	7.20	12.58	90.64
1967	17.71	60.00	0.30	13.08	3.86
1968	19.47	60.00	0.32	13.59	4.41
1969	7,506.96	60.00	125.12	14.11	1,765.75
1970	152.63	60.00	2.54	14.65	37.27
1971	1,784.71	60.00	29.75	15.21	452.39
1972	1,046,366.17	60.00	17,439.43	15.78	275,210.32
1973	9,030.70	60.00	150.51	16.36	2,463.06
1974	7,994.75	60.00	133.25	16.97	2,260.73
1975	215,408.78	60.00	3,590.15	17.58	63,121.26
1976	37,697.06	60.00	628.28	18.21	11,439.64

PAWC - Water Operations
Water Operations
304.32 Purification Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *60* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1977	1,299.05	60.00	21.65	18.85	408.13
1978	2,737.66	60.00	45.63	19.51	890.01
1979	2,786.10	60.00	46.43	20.17	936.62
1980	409.67	60.00	6.83	20.85	142.37
1981	23,726.70	60.00	395.44	21.54	8,518.83
1982	388,484.47	60.00	6,474.74	22.24	144,014.18
1983	82,464.64	60.00	1,374.41	22.96	31,552.21
1984	17,809.53	60.00	296.83	23.68	7,029.21
1985	424,251.01	60.00	7,070.85	24.41	172,624.65
1986	9,125.87	60.00	152.10	25.16	3,826.64
1987	23,170.52	60.00	386.18	25.91	10,007.24
1988	994,335.20	60.00	16,572.25	26.68	442,076.75
1989	2,307,355.62	60.00	38,455.92	27.45	1,055,614.09
1990	923,116.86	60.00	15,385.28	28.23	434,369.18
1991	1,052,757.51	60.00	17,545.96	29.02	509,227.21
1992	3,019.59	60.00	50.33	29.82	1,500.92
1993	1,237.70	60.00	20.63	30.63	631.91
1994	917,292.30	60.00	15,288.20	31.45	480,795.40
1995	1,316,634.36	60.00	21,943.90	32.28	708,249.04
1996	349,220.20	60.00	5,820.34	33.11	192,709.87
1997	1,604,277.59	60.00	26,737.95	33.95	907,762.38
1998	590,743.19	60.00	9,845.72	34.80	342,641.45
1999	1,772,460.21	60.00	29,541.00	35.66	1,053,403.57
2000	12,834.62	60.00	213.91	36.52	7,812.63
2001	2,040,345.98	60.00	34,005.76	37.40	1,271,690.55
2002	322,736.71	60.00	5,378.94	38.28	205,887.01
2003	408,253.67	60.00	6,804.23	39.16	266,468.32

PAWC - Water Operations
Water Operations
304.32 Purification Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *60* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2004	325,998.95	60.00	5,433.31	40.06	217,640.00
2005	86,943.45	60.00	1,449.06	40.96	59,349.33
2006	17,221.22	60.00	287.02	41.86	12,015.51
2007	244,177.70	60.00	4,069.63	42.78	174,084.55
2008	87,510.98	60.00	1,458.52	43.70	63,730.92
2009	747,730.56	60.00	12,462.17	44.62	556,056.42
2010	706,051.38	60.00	11,767.52	45.55	536,013.87
2011	2,014,455.51	60.00	33,574.25	46.49	1,560,731.74
2012	2,608,666.35	60.00	43,477.76	47.43	2,061,964.15
2013	3,117,612.53	60.00	51,960.20	48.37	2,513,390.56
2014	3,757,456.71	60.00	62,624.27	49.32	3,088,719.64
2015	425,757.02	60.00	7,095.95	50.27	356,748.30
2016	1,489,321.54	60.00	24,822.02	51.23	1,271,717.64
2017	2,200,844.47	60.00	36,680.73	52.20	1,914,570.45
2018	1,949,483.88	60.00	32,491.39	53.16	1,727,259.50
2019	1,888,104.84	60.00	31,468.41	54.13	1,703,374.08
2020	3,470,430.47	60.00	57,840.50	55.10	3,187,109.28
2021	2,984,619.44	60.00	49,743.65	56.08	2,789,429.14
2022	7,498,009.91	60.00	124,966.81	57.05	7,129,829.32
2023	10,971,498.82	60.00	182,858.28	58.03	10,611,955.27
2024	1,823,187.53	60.00	30,386.45	59.02	1,793,275.24
2025	7,794,676.46	60.00	129,911.25	59.75	7,762,700.37
Total	73,156,042.27	53.01	1,219,150.38	48.98	59,710,896.74

Composite Average Remaining Life ... 48.98 Years

PAWC - Water Operations
Water Operations
304.36 Waste Handling Structures
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1991	10,728,292.17	55.00	195,059.87	27.92	5,446,191.02
1998	68,969.00	55.00	1,253.98	32.23	40,413.58
2000	122,317.58	55.00	2,223.96	33.57	74,649.12
2001	25,833.98	55.00	469.71	34.25	16,088.49
2003	4,063.71	55.00	73.89	35.67	2,635.47
2007	19,061.38	55.00	346.57	38.67	13,401.75
2010	29,348.23	55.00	533.60	41.08	21,918.66
2012	197,525.13	55.00	3,591.37	42.75	153,546.57
2013	129,535.29	55.00	2,355.19	43.62	102,728.13
2014	18,080.06	55.00	328.73	44.50	14,627.17
2016	167,667.01	55.00	3,048.49	46.30	141,135.73
2021	13,550,479.62	55.00	246,372.37	51.03	12,573,472.72
2023	3,380,408.50	55.00	61,461.98	53.00	3,257,762.96
Total	28,441,581.66	55.00	517,119.70	42.27	21,858,571.37

Composite Average Remaining Life ... 42.27 Years

PAWC - Water Operations
Water Operations
304.60 Office Buildings - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1986	1,193,234.40	55.00	21,695.16	29.42	638,317.98
1987	1,333,438.47	55.00	24,244.32	29.93	725,527.98
1988	66,300.97	55.00	1,205.47	30.43	36,686.85
1989	673,796.52	55.00	12,250.84	30.95	379,115.08
1990	53,021.27	55.00	964.02	31.46	30,330.63
1991	4,089.45	55.00	74.35	31.98	2,378.19
1992	18,335.02	55.00	333.36	32.51	10,838.35
1994	2,429.06	55.00	44.16	33.58	1,483.15
1995	69,619.62	55.00	1,265.81	34.12	43,195.47
1996	25,231.49	55.00	458.75	34.67	15,906.97
1997	109,992.96	55.00	1,999.87	35.23	70,455.14
1998	1,013.00	55.00	18.42	35.79	659.22
2001	62,892.80	55.00	1,143.50	37.52	42,899.85
2002	10,259.32	55.00	186.53	38.11	7,108.03
2003	73,531.37	55.00	1,336.93	38.70	51,744.15
2005	152,175.13	55.00	2,766.82	39.92	110,460.20
2006	268,253.78	55.00	4,877.34	40.54	197,748.40
2007	23,101.69	55.00	420.03	41.18	17,295.52
2008	107,200.39	55.00	1,949.10	41.82	81,509.22
2009	4,369.19	55.00	79.44	42.47	3,373.91
2010	30,818.46	55.00	560.34	43.13	24,169.62
2011	114,845.78	55.00	2,088.10	43.81	91,476.47
2012	143,420.45	55.00	2,607.64	44.49	116,021.23
2013	360,133.68	55.00	6,547.88	45.19	295,912.73
2014	82,708.84	55.00	1,503.80	45.90	69,031.55
2015	29,091.75	55.00	528.94	46.63	24,665.43
2016	107,280.37	55.00	1,950.55	47.37	92,404.97

PAWC - Water Operations
Water Operations
304.60 Office Buildings - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2017	95,983.57	55.00	1,745.15	48.13	83,992.97
2018	19,728,894.53	55.00	358,706.92	48.91	17,542,845.85
2019	1,662,367.46	55.00	30,224.84	49.70	1,502,209.95
2023	11,478.86	55.00	208.71	53.11	11,083.55
2025	2,409,664.54	55.00	43,812.05	54.76	2,398,940.05
Total	29,028,974.19	55.00	527,799.16	46.84	24,719,788.64

Composite Average Remaining Life ... 46.84 Years

PAWC - Water Operations
Water Operations
304.61 Office Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1924	845.00	0.00	0.00	0.00	0.00
1926	215.00	0.00	0.00	0.00	0.00
1958	13.02	50.00	0.26	4.36	1.14
1960	48.73	50.00	0.97	4.88	4.76
1961	21.19	50.00	0.42	5.15	2.18
1963	33,045.39	50.00	660.91	5.70	3,766.42
1964	1,079.50	50.00	21.59	5.99	129.25
1965	11,957.68	50.00	239.15	6.29	1,503.09
1966	1,125.43	50.00	22.51	6.60	148.45
1967	48,178.36	50.00	963.57	6.92	6,666.08
1968	57,455.89	50.00	1,149.12	7.26	8,337.44
1969	1,273.22	50.00	25.46	7.61	193.74
1970	11,121.74	50.00	222.43	7.98	1,774.44
1971	9,019.90	50.00	180.40	8.36	1,508.76
1972	61,461.67	50.00	1,229.23	8.77	10,777.28
1973	1,636.52	50.00	32.73	9.19	300.78
1975	6,526.85	50.00	130.54	10.09	1,317.20
1976	45,687.00	50.00	913.74	10.57	9,657.95
1977	13,240.50	50.00	264.81	11.07	2,930.87
1979	28,098.53	50.00	561.97	12.12	6,811.60
1980	1.10	50.00	0.02	12.68	0.28
1981	45,810.00	50.00	916.20	13.25	12,137.75
1982	361,045.49	50.00	7,220.91	13.84	99,924.22
1983	32,369.00	50.00	647.38	14.45	9,351.79
1984	902.06	50.00	18.04	15.07	271.87
1985	72,985.69	50.00	1,459.71	15.71	22,931.72
1986	351,447.26	50.00	7,028.94	16.37	115,030.97

PAWC - Water Operations
Water Operations
304.61 Office Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1987	596,055.80	50.00	11,921.11	17.04	203,085.95
1988	612,729.15	50.00	12,254.58	17.72	217,159.25
1989	449,868.60	50.00	8,997.37	18.42	165,725.32
1990	143,314.05	50.00	2,866.28	19.13	54,835.53
1991	33,727.65	50.00	674.55	19.86	13,393.94
1992	148,265.09	50.00	2,965.30	20.59	61,065.02
1993	12,902.30	50.00	258.05	21.34	5,507.31
1994	325,416.52	50.00	6,508.33	22.10	143,854.72
1995	58,927.46	50.00	1,178.55	22.88	26,959.67
1996	47,370.53	50.00	947.41	23.66	22,414.28
1997	35,194.64	50.00	703.89	24.45	17,211.87
1998	15,964.58	50.00	319.29	25.26	8,064.30
1999	61,011.45	50.00	1,220.23	26.07	31,813.31
2000	754,379.80	50.00	15,087.59	26.90	405,802.03
2001	49,302.15	50.00	986.04	27.73	27,344.02
2002	6,125.14	50.00	122.50	28.58	3,500.56
2003	84,890.14	50.00	1,697.80	29.43	49,964.73
2004	37,729.39	50.00	754.59	30.29	22,857.92
2005	346,446.58	50.00	6,928.93	31.16	215,931.33
2006	226,824.45	50.00	4,536.49	32.04	145,368.15
2007	90,382.39	50.00	1,807.65	32.93	59,531.40
2008	234,555.06	50.00	4,691.10	33.83	158,700.23
2009	101,931.15	50.00	2,038.62	34.73	70,811.29
2010	61,124.75	50.00	1,222.49	35.65	43,578.49
2011	121,514.52	50.00	2,430.29	36.57	88,867.59
2012	183,845.36	50.00	3,676.91	37.49	137,858.23
2013	88,318.55	50.00	1,766.37	38.43	67,874.24

PAWC - Water Operations
Water Operations
304.61 Office Buildings - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2014	402,537.52	50.00	8,050.75	39.36	316,916.13
2015	12,615.97	50.00	252.32	40.31	10,170.89
2016	683,665.11	50.00	13,673.30	41.26	564,157.59
2017	539,219.66	50.00	10,784.39	42.22	455,264.20
2018	1,151,356.24	50.00	23,027.11	43.18	994,199.27
2019	1,338,951.60	50.00	26,779.02	44.14	1,182,014.99
2020	619,050.23	50.00	12,381.00	45.11	558,482.93
2021	830,510.39	50.00	16,610.20	46.08	765,402.38
2022	1,604,063.59	50.00	32,081.26	47.06	1,509,611.06
2023	387,682.44	50.00	7,753.65	48.03	372,442.77
2024	800,288.59	50.00	16,005.76	49.02	784,538.88
2025	561,630.29	50.00	11,232.60	49.75	558,861.70
Total	15,056,300.60	48.48	301,104.67	36.06	10,856,623.48

Composite Average Remaining Life ... 36.06 Years

PAWC - Water Operations
Water Operations
304.62 Garage Buildings - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1958	1,356.00	55.00	24.65	14.96	368.88
1965	653,341.28	55.00	11,878.93	17.70	210,225.72
1967	45,486.00	55.00	827.02	18.51	15,309.50
1969	4,300.00	55.00	78.18	19.34	1,512.22
1970	2,902.00	55.00	52.76	19.76	1,042.82
1972	1,319.97	55.00	24.00	20.62	494.89
1973	9,153.18	55.00	166.42	21.06	3,504.19
1975	40.52	55.00	0.74	21.94	16.17
1977	1,690.34	55.00	30.73	22.85	702.19
1979	3,808.27	55.00	69.24	23.78	1,646.21
1981	0.16	55.00	0.00	24.73	0.07
1985	8,909.55	55.00	161.99	26.70	4,325.42
1986	56,270.95	55.00	1,023.11	27.21	27,841.02
1987	799,727.39	55.00	14,540.49	27.73	403,206.44
1988	16,136.70	55.00	293.39	28.25	8,289.78
1989	365,534.82	55.00	6,646.09	28.79	191,320.01
1990	21,055.84	55.00	382.83	29.33	11,226.80
1991	5,126.72	55.00	93.21	29.87	2,784.59
1992	10,300.00	55.00	187.27	30.43	5,698.57
1993	2,884.28	55.00	52.44	30.99	1,625.33
1995	1,257.55	55.00	22.86	32.15	734.99
1996	53,669.41	55.00	975.81	32.74	31,943.82
1997	53,667.76	55.00	975.78	33.34	32,527.93
1998	41,194.00	55.00	748.98	33.94	25,423.71
2000	55,773.26	55.00	1,014.06	35.19	35,686.12
2001	106,652.86	55.00	1,939.14	35.83	69,476.45
2002	3,229.97	55.00	58.73	36.48	2,142.24

PAWC - Water Operations
Water Operations
304.62 Garage Buildings - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2006	123,630.77	55.00	2,247.83	39.18	88,078.91
2007	61,197.63	55.00	1,112.68	39.89	44,385.48
2008	530,439.54	55.00	9,644.35	40.61	391,648.11
2009	415,793.46	55.00	7,559.88	41.34	312,525.52
2010	105,796.74	55.00	1,923.58	42.08	80,951.06
2011	56,537.12	55.00	1,027.95	42.84	44,037.44
2012	1,931,567.43	55.00	35,119.40	43.61	1,531,492.13
2013	23,340.26	55.00	424.37	44.39	18,838.73
2014	16,852,825.36	55.00	306,414.91	45.19	13,847,056.48
2015	31,770.86	55.00	577.65	46.00	26,573.62
2018	19,072,598.79	55.00	346,774.41	48.53	16,827,740.15
2019	6,338,430.77	55.00	115,244.16	49.40	5,693,025.99
2021	11,528,614.10	55.00	209,611.10	51.19	10,730,906.48
Total	59,397,331.61	55.00	1,079,951.14	46.97	50,726,336.19

Composite Average Remaining Life ... 46.97 Years

PAWC - Water Operations
Water Operations
304.63 Garage Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 45 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1906	2,277.20	0.00	0.00	0.00	0.00
1908	11,029.40	0.00	0.00	0.00	0.00
1909	13,507.39	0.00	0.00	0.00	0.00
1912	4,321.23	0.00	0.00	0.00	0.00
1922	38.02	0.00	0.00	0.00	0.00
1924	0.63	0.00	0.00	0.00	0.00
1926	14,835.75	0.00	0.00	0.00	0.00
1927	283.00	0.00	0.00	0.00	0.00
1928	2,177.00	0.00	0.00	0.00	0.00
1929	2,405.47	0.00	0.00	0.00	0.00
1935	1,480.00	0.00	0.00	0.00	0.00
1937	295.00	0.00	0.00	0.00	0.00
1940	190.00	0.00	0.00	0.00	0.00
1942	2,556.77	0.00	0.00	0.00	0.00
1943	0.07	0.00	0.00	0.00	0.00
1945	648.58	0.00	0.00	0.00	0.00
1947	0.21	0.00	0.00	0.00	0.00
1948	524.42	0.00	0.00	0.00	0.00
1949	260.00	0.00	0.00	0.00	0.00
1950	368.99	45.00	8.20	0.50	4.10
1951	871.00	45.00	19.36	0.60	11.54
1954	10,690.00	45.00	237.56	1.26	298.56
1955	141.54	45.00	3.15	1.49	4.69
1956	6,563.98	45.00	145.87	1.71	249.25
1957	2,349.38	45.00	52.21	1.96	102.38
1958	1,197.00	45.00	26.60	2.22	58.93
1959	728.45	45.00	16.19	2.47	40.01

PAWC - Water Operations
Water Operations
304.63 Garage Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 45 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1960	2,083.92	45.00	46.31	2.72	125.80
1961	2,337.30	45.00	51.94	2.97	154.52
1962	827.00	45.00	18.38	3.23	59.43
1963	2,401.75	45.00	53.37	3.49	186.39
1964	3,175.28	45.00	70.56	3.75	264.69
1965	574.98	45.00	12.78	4.00	51.12
1966	1,195.17	45.00	26.56	4.26	113.21
1967	5,566.05	45.00	123.69	4.53	560.09
1968	2,498.10	45.00	55.51	4.80	266.42
1969	2,634.23	45.00	58.54	5.07	296.91
1970	7,477.75	45.00	166.17	5.36	890.55
1971	118.53	45.00	2.63	5.66	14.90
1972	1,497.86	45.00	33.29	5.97	198.68
1973	4,075.51	45.00	90.57	6.29	570.10
1974	1,878.67	45.00	41.75	6.63	276.98
1976	4,139.68	45.00	91.99	7.37	678.11
1977	1,348.58	45.00	29.97	7.77	232.80
1978	231.44	45.00	5.14	8.19	42.10
1980	2,836.34	45.00	63.03	9.08	572.43
1981	1,534.25	45.00	34.09	9.56	325.99
1982	6,296.00	45.00	139.91	10.06	1,407.78
1983	6,864.02	45.00	152.53	10.59	1,614.77
1984	50,567.72	45.00	1,123.73	11.13	12,506.08
1985	35,513.76	45.00	789.19	11.69	9,227.31
1986	27,677.97	45.00	615.07	12.27	7,549.73
1987	822.21	45.00	18.27	12.88	235.32
1988	551,770.05	45.00	12,261.55	13.50	165,532.95

PAWC - Water Operations
Water Operations
304.63 Garage Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 45 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1989	67,022.20	45.00	1,489.38	14.14	21,058.21
1990	977,166.56	45.00	21,714.80	14.79	321,262.88
1991	703,073.68	45.00	15,623.85	15.47	241,650.07
1992	326,380.72	45.00	7,252.90	16.16	117,188.86
1993	10,915.11	45.00	242.56	16.86	4,089.78
1994	68,231.44	45.00	1,516.25	17.58	26,654.15
1995	6,922.98	45.00	153.84	18.31	2,816.99
1996	89,822.17	45.00	1,996.05	19.06	38,040.63
1997	117,923.48	45.00	2,620.52	19.82	51,930.01
1998	17,129.33	45.00	380.65	20.59	7,836.79
1999	137,988.42	45.00	3,066.41	21.37	65,532.52
2000	71,946.71	45.00	1,598.82	22.17	35,439.64
2001	20,966.41	45.00	465.92	22.98	10,704.52
2002	9,450.88	45.00	210.02	23.79	4,997.09
2004	1,409.66	45.00	31.33	25.46	797.65
2005	49,272.77	45.00	1,094.95	26.32	28,813.72
2006	46,209.96	45.00	1,026.89	27.18	27,907.03
2007	51,006.16	45.00	1,133.47	28.05	31,790.86
2008	30,880.12	45.00	686.22	28.93	19,851.09
2009	16,376.26	45.00	363.92	29.82	10,851.20
2010	3,292.18	45.00	73.16	30.72	2,247.32
2011	204,308.42	45.00	4,540.18	31.63	143,586.18
2012	213,304.25	45.00	4,740.09	32.54	154,248.87
2013	45,748.36	45.00	1,016.63	33.46	34,021.24
2014	71,517.92	45.00	1,589.29	34.40	54,665.77
2015	514,980.71	45.00	11,444.01	35.33	404,366.30
2016	77,822.77	45.00	1,729.39	36.28	62,740.06

PAWC - Water Operations
Water Operations
304.63 Garage Buildings - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *45* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2017	32,855.96	45.00	730.13	37.23	27,182.05
2018	1,423,776.58	45.00	31,639.46	38.18	1,208,148.16
2019	166,008.61	45.00	3,689.08	39.15	144,415.19
2020	417,521.07	45.00	9,278.24	40.11	372,174.82
2021	1,976,668.98	45.00	43,925.96	41.08	1,804,606.07
2022	397,827.20	45.00	8,840.60	42.06	371,809.88
2023	163,371.80	45.00	3,630.48	43.04	156,238.62
2025	285,732.90	45.00	6,349.62	44.75	284,168.28
Total	9,622,517.33	35.39	212,570.73	30.57	6,498,557.15

Composite Average Remaining Life ... 30.57 Years

PAWC - Water Operations
Water Operations
304.65 Miscellaneous Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1900	1,094.45	0.00	0.00	0.00	0.00
1916	1.00	0.00	0.00	0.00	0.00
1917	1,000.00	0.00	0.00	0.00	0.00
1920	883.12	0.00	0.00	0.00	0.00
1927	163.99	0.00	0.00	0.00	0.00
1929	714.00	0.00	0.00	0.00	0.00
1930	5,124.00	0.00	0.00	0.00	0.00
1936	1,441.58	0.00	0.00	0.00	0.00
1941	691.00	0.00	0.00	0.00	0.00
1942	573.00	0.00	0.00	0.00	0.00
1943	45.00	0.00	0.00	0.00	0.00
1951	1.00	0.00	0.00	0.00	0.00
1952	502.35	0.00	0.00	0.00	0.00
1954	1,966.06	0.00	0.00	0.00	0.00
1958	1,456.00	35.00	41.60	1.12	46.48
1959	140.00	35.00	4.00	1.46	5.83
1960	1,334.56	35.00	38.13	1.79	68.12
1962	187.00	35.00	5.34	2.45	13.10
1963	1,065.20	35.00	30.43	2.79	84.77
1964	435.84	35.00	12.45	3.12	38.83
1967	434.20	35.00	12.41	4.12	51.12
1969	4.82	35.00	0.14	4.79	0.66
1970	260.57	35.00	7.44	5.13	38.17
1971	482.00	35.00	13.77	5.47	75.28
1972	581.70	35.00	16.62	5.81	96.53
1973	25.00	35.00	0.71	6.15	4.39
1975	2,998.44	35.00	85.67	6.85	586.57

PAWC - Water Operations
Water Operations
304.65 Miscellaneous Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1981	144.00	35.00	4.11	9.01	37.08
1983	1,047.68	35.00	29.93	9.77	292.35
1986	2,001.93	35.00	57.20	10.94	625.56
1987	6,790.60	35.00	194.02	11.34	2,199.80
1988	3,235.00	35.00	92.43	11.75	1,085.61
1989	533.50	35.00	15.24	12.16	185.34
1991	2,526.22	35.00	72.18	13.01	938.79
1992	1,500.00	35.00	42.86	13.44	576.06
1996	22,317.33	35.00	637.64	15.26	9,730.21
1997	6,757.10	35.00	193.06	15.74	3,038.06
1998	4,559.34	35.00	130.27	16.22	2,113.26
2003	66,511.44	35.00	1,900.32	18.81	35,748.72
2004	206,480.10	35.00	5,899.42	19.37	114,243.62
2005	177,018.70	35.00	5,057.66	19.93	100,806.91
2006	64,364.98	35.00	1,838.99	20.51	37,720.17
2007	264,045.81	35.00	7,544.15	21.11	159,220.65
2008	330,080.07	35.00	9,430.83	21.71	204,769.79
2009	26,671.02	35.00	762.03	22.34	17,021.45
2010	149,299.60	35.00	4,265.69	22.98	98,014.19
2011	1,720.18	35.00	49.15	23.63	1,161.57
2012	59,772.20	35.00	1,707.77	24.31	41,513.39
2013	28,815.79	35.00	823.31	25.00	20,583.30
2014	11,822.89	35.00	337.80	25.71	8,685.34
2015	594,767.32	35.00	16,993.31	26.44	449,320.03
2016	487,214.74	35.00	13,920.38	27.19	378,524.94
2017	371,165.00	35.00	10,604.69	27.96	296,551.65
2018	771,524.70	35.00	22,043.50	28.76	633,926.55

PAWC - Water Operations
Water Operations
304.65 Miscellaneous Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2019	38.81	35.00	1.11	29.57	32.79
2020	9,366.40	35.00	267.61	30.41	8,139.03
2021	35,432.97	35.00	1,012.37	31.28	31,664.08
2022	36,204.97	35.00	1,034.42	32.16	33,271.64
2023	711,842.91	35.00	20,338.31	33.08	672,786.84
2025	622,752.32	35.00	17,792.88	34.75	618,324.27
Total	5,101,931.50	26.83	145,363.35	27.41	3,983,962.90

Composite Average Remaining Life ... 27.41 Years

PAWC - Water Operations
Water Operations
305.20 Collecting Reservoirs - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 75 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1900	835,693.23	75.00	11,142.58	0.61	6,820.24
1902	19,788.54	75.00	263.85	0.98	257.33
1903	1,483.70	75.00	19.78	1.21	24.02
1904	6,208.51	75.00	82.78	1.38	114.06
1905	1,513.19	75.00	20.18	1.63	32.93
1906	2,848.52	75.00	37.98	1.88	71.55
1907	144,839.78	75.00	1,931.20	2.08	4,021.63
1908	10,658.94	75.00	142.12	2.34	332.17
1909	682.66	75.00	9.10	2.59	23.62
1911	3,773.26	75.00	50.31	3.07	154.57
1912	30,745.69	75.00	409.94	3.33	1,366.99
1914	12,863.21	75.00	171.51	3.83	656.64
1915	50,177.33	75.00	669.03	4.09	2,738.78
1916	14,900.42	75.00	198.67	4.33	860.99
1919	72,456.55	75.00	966.09	5.11	4,932.41
1920	740.31	75.00	9.87	5.37	52.98
1921	7,313.54	75.00	97.51	5.63	549.23
1922	804.62	75.00	10.73	5.88	63.06
1924	45,444.52	75.00	605.93	6.40	3,880.28
1925	923.00	75.00	12.31	6.65	81.87
1927	5,568.36	75.00	74.24	7.18	533.35
1928	37,821.79	75.00	504.29	7.44	3,751.72
1930	1,030.30	75.00	13.74	7.99	109.70
1931	4,532.14	75.00	60.43	8.25	498.82
1935	94.29	75.00	1.26	9.42	11.84
1936	60.81	75.00	0.81	9.73	7.89
1937	179.62	75.00	2.39	10.04	24.05

PAWC - Water Operations
Water Operations
305.20 Collecting Reservoirs - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 75 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1938	1,869.64	75.00	24.93	10.37	258.49
1939	499.89	75.00	6.67	10.71	71.36
1940	48.00	75.00	0.64	11.05	7.07
1941	417.00	75.00	5.56	11.41	63.41
1942	1,528.31	75.00	20.38	11.77	239.89
1943	189.24	75.00	2.52	12.15	30.66
1944	0.05	75.00	0.00	12.54	0.01
1945	185,387.19	75.00	2,471.83	12.94	31,985.84
1946	18,237.81	75.00	243.17	13.35	3,247.34
1947	42,259.80	75.00	563.46	13.78	7,764.23
1948	105,879.92	75.00	1,411.73	14.22	20,070.07
1951	2,586.50	75.00	34.49	15.61	538.21
1953	244.63	75.00	3.26	16.60	54.14
1954	556.00	75.00	7.41	17.11	126.85
1956	29.00	75.00	0.39	18.18	7.03
1957	50,615.23	75.00	674.87	18.73	12,638.94
1958	14,936.39	75.00	199.15	19.29	3,842.54
1959	347,652.27	75.00	4,635.36	19.87	92,101.14
1960	322,173.80	75.00	4,295.65	20.45	87,866.89
1961	925.38	75.00	12.34	21.06	259.81
1962	7,307.15	75.00	97.43	21.67	2,110.90
1963	2,783.94	75.00	37.12	22.29	827.23
1964	109,470.10	75.00	1,459.60	22.92	33,455.29
1965	9,425.31	75.00	125.67	23.56	2,961.15
1966	0.72	75.00	0.01	24.21	0.23
1967	44,616.61	75.00	594.89	24.88	14,800.84
1968	12,087.29	75.00	161.16	25.55	4,118.08

PAWC - Water Operations
Water Operations
305.20 Collecting Reservoirs - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 75 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1971	440.77	75.00	5.88	27.63	162.37
1972	134.20	75.00	1.79	28.34	50.70
1973	5,440.44	75.00	72.54	29.06	2,107.75
1974	85.00	75.00	1.13	29.78	33.75
1975	24,477.44	75.00	326.37	30.52	9,959.57
1976	106,550.10	75.00	1,420.67	31.26	44,413.13
1977	25,174.94	75.00	335.67	32.01	10,745.53
1978	2,594.29	75.00	34.59	32.77	1,133.54
1979	3,329.73	75.00	44.40	33.54	1,489.00
1980	7,781.00	75.00	103.75	34.31	3,559.77
1981	59,662.39	75.00	795.50	35.09	27,915.79
1982	9,268.57	75.00	123.58	35.88	4,434.43
1983	32,323.28	75.00	430.98	36.68	15,807.34
1984	12,551.13	75.00	167.35	37.48	6,272.12
1985	12,570.43	75.00	167.61	38.29	6,417.79
1986	79,804.85	75.00	1,064.06	39.11	41,612.18
1987	293,417.83	75.00	3,912.24	39.93	156,211.01
1988	6,093.28	75.00	81.24	40.76	3,311.53
1989	12,607.93	75.00	168.11	41.60	6,992.55
1990	7,641.23	75.00	101.88	42.44	4,323.69
1991	73,420.51	75.00	978.94	43.29	42,376.82
1992	549,943.90	75.00	7,332.59	44.14	323,683.73
1993	13,225.19	75.00	176.34	45.00	7,935.74
1994	647.79	75.00	8.64	45.87	396.21
1995	436,231.22	75.00	5,816.42	46.75	271,889.96
1996	26,395.17	75.00	351.94	47.62	16,760.37
1997	621,953.13	75.00	8,292.71	48.51	402,275.53

PAWC - Water Operations
Water Operations
305.20 Collecting Reservoirs - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1998	9,060.00	75.00	120.80	49.40	5,967.44
2000	37,724.43	75.00	502.99	51.20	25,751.41
2001	111,242.44	75.00	1,483.23	52.10	77,279.52
2002	125,676.02	75.00	1,675.68	53.01	88,831.84
2003	6,180.00	75.00	82.40	53.93	4,443.79
2006	13,786.00	75.00	183.81	56.71	10,423.14
2007	23,343.75	75.00	311.25	57.64	17,940.02
2014	1,226,437.95	75.00	16,352.51	64.28	1,051,162.38
2016	7,768.42	75.00	103.58	66.21	6,857.89
2017	107,398.37	75.00	1,431.98	67.18	96,195.68
2019	385,956.96	75.00	5,146.09	69.12	355,699.70
2020	634,072.79	75.00	8,454.30	70.10	592,605.20
2023	1,229,133.24	75.00	16,388.44	73.03	1,196,889.97
2024	4,933,894.94	75.00	65,785.26	74.02	4,869,143.58
Total	13,870,315.05	75.00	184,937.53	54.95	10,162,883.79

Composite Average Remaining Life ... 54.95 Years

PAWC - Water Operations
Water Operations
306.10 Lake Intakes - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1962	4,167.41	55.00	75.77	12.86	974.15
1966	6,696.14	55.00	121.75	14.27	1,737.66
1970	1,783.13	55.00	32.42	15.80	512.26
1990	18,120.03	55.00	329.46	25.67	8,456.49
1992	743,957.01	55.00	13,526.49	26.91	364,030.71
1995	1,697,864.04	55.00	30,870.26	28.88	891,468.02
1996	16,079.46	55.00	292.35	29.56	8,642.75
1997	9,262,132.20	55.00	168,402.42	30.26	5,096,104.08
1998	153,399.52	55.00	2,789.08	30.97	86,390.31
2004	89,428.33	55.00	1,625.97	35.55	57,807.97
2005	48,578.25	55.00	883.24	36.37	32,120.17
2007	52,227.42	55.00	949.59	38.03	36,115.56
2008	24,096.05	55.00	438.11	38.89	17,037.11
2018	210,583.17	55.00	3,828.79	48.08	184,089.14
Total	12,329,112.16	55.00	224,165.69	30.27	6,785,486.37

Composite Average Remaining Life ... *30.27 Years*

PAWC - Water Operations
Water Operations
306.20 Lake Intakes - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1900	8,148.36	0.00	0.00	0.00	0.00
1901	255.00	0.00	0.00	0.00	0.00
1903	1,764.21	0.00	0.00	0.00	0.00
1905	926.29	0.00	0.00	0.00	0.00
1906	116.00	0.00	0.00	0.00	0.00
1907	50.00	0.00	0.00	0.00	0.00
1908	5,105.59	0.00	0.00	0.00	0.00
1909	625.00	0.00	0.00	0.00	0.00
1914	91.65	0.00	0.00	0.00	0.00
1915	2,103.77	0.00	0.00	0.00	0.00
1916	387.96	0.00	0.00	0.00	0.00
1920	362.00	0.00	0.00	0.00	0.00
1924	184.48	0.00	0.00	0.00	0.00
1934	275.60	50.00	5.51	3.15	17.38
1937	1,649.48	50.00	32.99	4.16	137.17
1938	223.95	50.00	4.48	4.49	20.12
1948	4,170.00	50.00	83.40	7.85	654.85
1954	515.16	50.00	10.30	9.93	102.27
1955	1,225.24	50.00	24.50	10.28	251.88
1959	0.02	50.00	0.00	11.71	0.00
1961	195,437.96	50.00	3,908.76	12.45	48,647.82
1962	2,445.04	50.00	48.90	12.82	626.75
1963	0.35	50.00	0.01	13.19	0.09
1964	13,102.67	50.00	262.05	13.57	3,555.57
1966	21,261.52	50.00	425.23	14.33	6,094.75
1967	34,966.21	50.00	699.32	14.72	10,294.42
1968	3,309.73	50.00	66.19	15.11	1,000.33

PAWC - Water Operations
Water Operations
306.20 Lake Intakes - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1969	337,960.76	50.00	6,759.21	15.51	104,816.97
1970	242.30	50.00	4.85	15.91	77.08
1972	2,403.96	50.00	48.08	16.72	803.78
1973	191,463.70	50.00	3,829.27	17.13	65,595.05
1974	695.59	50.00	13.91	17.55	244.10
1976	4,944.00	50.00	98.88	18.39	1,818.84
1979	4,591.44	50.00	91.83	19.70	1,809.42
1980	219.84	50.00	4.40	20.15	88.60
1982	0.25	50.00	0.00	21.06	0.11
1983	590.00	50.00	11.80	21.53	254.05
1984	7,128.71	50.00	142.57	22.00	3,136.74
1985	708.02	50.00	14.16	22.48	318.31
1986	5,152.00	50.00	103.04	22.96	2,366.15
1987	373.00	50.00	7.46	23.46	174.97
1988	329.26	50.00	6.59	23.95	157.74
1989	29,733.17	50.00	594.66	24.46	14,545.30
1991	302,038.47	50.00	6,040.76	25.49	154,007.71
1992	13,345.24	50.00	266.90	26.02	6,945.98
1994	7,175.69	50.00	143.51	27.11	3,890.40
1996	994,262.16	50.00	19,885.22	28.23	561,311.78
1997	105,445.07	50.00	2,108.90	28.80	60,738.73
1998	4,168.18	50.00	83.36	29.38	2,449.58
1999	427,734.05	50.00	8,554.67	29.98	256,448.00
2001	11,542.58	50.00	230.85	31.19	7,201.38
2002	111,458.00	50.00	2,229.16	31.82	70,931.07
2006	200,520.03	50.00	4,010.40	34.43	138,093.48
2007	433,877.13	50.00	8,677.53	35.12	304,736.33

PAWC - Water Operations
Water Operations
306.20 Lake Intakes - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2008	71,901.04	50.00	1,438.02	35.81	51,502.21
2011	35,533.38	50.00	710.67	37.99	26,995.28
2013	63,869.08	50.00	1,277.38	39.50	50,461.75
2014	6,733.23	50.00	134.66	40.29	5,425.03
2017	304,291.25	50.00	6,085.82	42.72	260,009.45
2019	145,315.45	50.00	2,906.31	44.43	129,131.35
2020	65,336.23	50.00	1,306.72	45.31	59,209.16
2021	110,220.53	50.00	2,204.41	46.21	101,863.18
2023	1,195,242.35	50.00	23,904.82	48.06	1,148,890.15
Total	5,495,248.38	39.68	109,502.44	33.50	3,667,852.61

Composite Average Remaining Life ... 33.50 Years

PAWC - Water Operations
Water Operations
307.00 Wells and Springs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1901	687.32	0.00	0.00	0.00	0.00
1904	1,476.20	0.00	0.00	0.00	0.00
1905	11,557.00	0.00	0.00	0.00	0.00
1907	60.00	0.00	0.00	0.00	0.00
1908	11.00	0.00	0.00	0.00	0.00
1910	6,358.00	0.00	0.00	0.00	0.00
1912	850.80	0.00	0.00	0.00	0.00
1913	1,496.00	0.00	0.00	0.00	0.00
1914	685.91	0.00	0.00	0.00	0.00
1915	2,515.00	0.00	0.00	0.00	0.00
1916	1,761.00	55.00	32.02	0.50	16.01
1918	1,184.00	55.00	21.53	1.16	24.99
1920	62.00	55.00	1.13	1.85	2.09
1922	2,819.00	55.00	51.25	2.58	132.41
1923	9,868.00	55.00	179.42	2.95	529.71
1924	8,365.00	55.00	152.09	3.33	506.10
1926	460.00	55.00	8.36	4.07	34.01
1927	1,178.84	55.00	21.43	4.44	95.16
1930	9.00	55.00	0.16	5.57	0.91
1934	199.00	55.00	3.62	7.09	25.65
1935	1,250.00	55.00	22.73	7.47	169.84
1937	3,054.88	55.00	55.54	8.24	457.76
1938	241.00	55.00	4.38	8.63	37.81
1939	2,545.67	55.00	46.28	9.02	417.31
1940	74.75	55.00	1.36	9.41	12.79
1941	830.19	55.00	15.09	9.80	147.89
1945	4,321.00	55.00	78.56	11.37	893.58

PAWC - Water Operations
Water Operations
307.00 Wells and Springs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1946	224.36	55.00	4.08	11.77	48.03
1948	865.57	55.00	15.74	12.57	197.87
1950	108.00	55.00	1.96	13.38	26.27
1951	608.00	55.00	11.05	13.79	152.40
1953	13,001.00	55.00	236.38	14.60	3,451.80
1954	14,821.28	55.00	269.48	15.01	4,045.83
1955	12,168.00	55.00	221.24	15.43	3,412.89
1956	1,603.07	55.00	29.15	15.84	461.72
1957	25,434.96	55.00	462.45	16.26	7,518.71
1958	2,594.00	55.00	47.16	16.68	786.53
1959	1,929.11	55.00	35.07	17.10	599.68
1960	46,187.99	55.00	839.78	17.52	14,712.65
1961	4,481.46	55.00	81.48	17.94	1,462.12
1962	3,009.76	55.00	54.72	18.37	1,005.33
1963	8,669.74	55.00	157.63	18.80	2,963.50
1964	2,122.94	55.00	38.60	19.23	742.31
1965	13,699.16	55.00	249.08	19.66	4,898.00
1966	121,048.28	55.00	2,200.88	20.10	44,238.79
1967	4,217.40	55.00	76.68	20.54	1,574.91
1968	7,127.37	55.00	129.59	20.98	2,718.71
1969	56,597.45	55.00	1,029.04	21.42	22,044.95
1970	4,767.16	55.00	86.68	21.87	1,895.47
1971	31,889.13	55.00	579.80	22.32	12,939.49
1972	101,843.95	55.00	1,851.71	22.77	42,160.31
1973	100,796.88	55.00	1,832.67	23.22	42,558.85
1974	38,869.79	55.00	706.72	23.68	16,734.71
1975	9,107.78	55.00	165.60	24.14	3,997.37

PAWC - Water Operations
Water Operations
307.00 Wells and Springs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1976	108,404.51	55.00	1,970.99	24.60	48,490.95
1977	20,559.74	55.00	373.81	25.07	9,370.95
1978	179,329.52	55.00	3,260.53	25.54	83,267.37
1979	92,875.03	55.00	1,688.64	26.01	43,922.15
1980	225,176.46	55.00	4,094.11	26.49	108,439.61
1981	134,430.79	55.00	2,444.19	26.97	65,911.39
1982	298,848.65	55.00	5,433.61	27.45	149,152.27
1983	168,391.29	55.00	3,061.66	27.94	85,533.90
1984	49,453.21	55.00	899.15	28.43	25,560.69
1985	97,450.97	55.00	1,771.83	28.92	51,246.49
1986	89,798.09	55.00	1,632.69	29.42	48,037.28
1987	305,786.74	55.00	5,559.76	29.93	166,379.51
1988	210,413.97	55.00	3,825.71	30.43	116,430.04
1989	96,932.29	55.00	1,762.40	30.95	54,539.45
1990	945,309.21	55.00	17,187.43	31.46	540,760.85
1991	91,173.68	55.00	1,657.70	31.98	53,021.30
1992	222,949.85	55.00	4,053.63	32.51	131,791.92
1993	80,770.05	55.00	1,468.55	33.04	48,527.35
1994	11,331.94	55.00	206.04	33.58	6,919.14
1995	25,861.85	55.00	470.22	34.12	16,045.98
1996	43,637.51	55.00	793.41	34.67	27,510.89
1997	132,896.24	55.00	2,416.29	35.23	85,125.66
1998	61,454.06	55.00	1,117.35	35.79	39,991.66
1999	40,204.97	55.00	731.00	36.36	26,579.10
2000	895,199.93	55.00	16,276.35	36.94	601,167.40
2001	249,974.73	55.00	4,544.99	37.52	170,510.44
2002	305,241.71	55.00	5,549.85	38.11	211,482.62

PAWC - Water Operations
Water Operations
307.00 Wells and Springs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2003	144,555.07	55.00	2,628.27	38.70	101,723.65
2004	994,772.65	55.00	18,086.76	39.31	710,976.49
2005	2,661.30	55.00	48.39	39.92	1,931.77
2006	231,535.79	55.00	4,209.74	40.54	170,681.03
2007	502,967.06	55.00	9,144.85	41.18	376,555.86
2008	312,340.45	55.00	5,678.91	41.82	237,486.34
2009	8,587.18	55.00	156.13	42.47	6,631.06
2010	274,539.18	55.00	4,991.62	43.13	215,309.50
2011	340,253.19	55.00	6,186.42	43.81	271,017.02
2012	103,855.14	55.00	1,888.27	44.49	84,014.52
2013	217,845.35	55.00	3,960.82	45.19	178,998.01
2014	173,445.17	55.00	3,153.55	45.90	144,763.10
2015	1,155,296.09	55.00	21,005.37	46.63	979,517.40
2016	83,597.76	55.00	1,519.96	47.37	72,006.17
2017	28,775.08	55.00	523.18	48.13	25,180.40
2018	120,668.59	55.00	2,193.97	48.91	107,297.98
2019	136,622.64	55.00	2,484.05	49.70	123,460.00
2020	262,341.46	55.00	4,769.84	50.52	240,958.12
2021	186,141.59	55.00	3,384.39	51.36	173,806.28
2022	1,581,144.58	55.00	28,748.06	52.22	1,501,177.49
2023	297,180.05	55.00	5,403.27	53.11	286,945.73
2024	63,523.51	55.00	1,154.97	54.03	62,404.74
2025	14,007.92	55.00	254.69	54.76	13,945.58
Total	13,112,227.94	49.71	237,936.76	39.27	9,343,357.76

Composite Average Remaining Life ... 39.27 Years

PAWC - Water Operations
Water Operations
310.00 Power Generation Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 45 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1931	3,609.84	0.00	0.00	0.00	0.00
1936	2,809.10	45.00	62.42	0.50	31.21
1937	4,520.24	45.00	100.45	0.79	78.87
1940	2,939.00	45.00	65.31	1.79	117.06
1944	1.00	45.00	0.02	3.14	0.07
1954	8,338.50	45.00	185.30	6.49	1,202.83
1957	1,178.00	45.00	26.18	7.51	196.63
1958	5,336.00	45.00	118.58	7.86	931.50
1959	107.00	45.00	2.38	8.20	19.50
1963	940.00	45.00	20.89	9.61	200.67
1965	6,019.00	45.00	133.76	10.32	1,380.88
1966	142.00	45.00	3.16	10.69	33.72
1967	7,319.00	45.00	162.64	11.05	1,797.92
1968	23,061.00	45.00	512.47	11.42	5,854.60
1969	45,202.40	45.00	1,004.50	11.80	11,849.84
1970	206.00	45.00	4.58	12.17	55.73
1972	7,872.85	45.00	174.95	12.94	2,263.65
1973	136.00	45.00	3.02	13.33	40.28
1974	52,315.00	45.00	1,162.56	13.72	15,949.26
1975	38,313.36	45.00	851.41	14.12	12,018.52
1980	25,076.66	45.00	557.26	16.17	9,011.71
1981	585.65	45.00	13.01	16.60	216.01
1982	11,137.43	45.00	247.50	17.03	4,214.95
1983	2,509.00	45.00	55.76	17.47	973.96
1991	39,570.00	45.00	879.33	21.21	18,649.21
1992	48,752.04	45.00	1,083.38	21.71	23,519.87
1993	23,243.53	45.00	516.52	22.22	11,476.40

PAWC - Water Operations
Water Operations
310.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 45 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1994	107,457.50	45.00	2,387.94	22.74	54,291.90
1995	1,076.42	45.00	23.92	23.26	556.43
1996	7,932.48	45.00	176.28	23.80	4,195.04
1997	1,040,121.31	45.00	23,113.80	24.34	562,652.64
1998	20,346.13	45.00	452.14	24.90	11,256.89
1999	250,124.14	45.00	5,558.31	25.46	141,522.97
2000	96,600.18	45.00	2,146.67	26.04	55,891.05
2001	3,572.21	45.00	79.38	26.62	2,113.42
2002	189,643.82	45.00	4,214.31	27.22	114,714.32
2003	241,761.04	45.00	5,372.47	27.83	149,507.74
2004	86,744.06	45.00	1,927.65	28.45	54,838.70
2005	261,676.97	45.00	5,815.04	29.08	169,115.83
2006	370,647.36	45.00	8,236.61	29.73	244,856.79
2007	106,124.17	45.00	2,358.31	30.39	71,660.24
2008	133,786.35	45.00	2,973.03	31.06	92,335.97
2009	129,823.10	45.00	2,884.96	31.74	91,578.06
2010	97,770.04	45.00	2,172.67	32.45	70,492.97
2011	401,064.15	45.00	8,912.53	33.16	295,543.08
2012	6,230,204.92	45.00	138,448.95	33.89	4,692,099.91
2013	5,465,154.46	45.00	121,447.84	34.64	4,206,472.11
2014	619,366.07	45.00	13,763.69	35.40	487,231.42
2015	609,698.44	45.00	13,548.85	36.18	490,177.80
2016	160,719.19	45.00	3,571.54	36.97	132,054.62
2017	266,682.99	45.00	5,926.29	37.79	223,937.30
2018	983,860.91	45.00	21,863.57	38.62	844,323.73
2019	344,429.87	45.00	7,653.99	39.47	302,100.91
2020	278,768.83	45.00	6,194.86	40.34	249,891.04

PAWC - Water Operations
Water Operations
310.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *45* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2021	193,906.93	45.00	4,309.04	41.23	177,647.01
2022	168,052.35	45.00	3,734.50	42.13	157,352.29
2023	5,452,340.43	45.00	121,163.08	43.07	5,218,102.28
2024	839,770.15	45.00	18,661.55	44.02	821,479.82
2025	1,604,430.51	45.00	35,654.00	44.75	1,595,503.75
Total	27,124,897.08	44.24	602,695.08	36.35	21,907,582.87

Composite Average Remaining Life ... 36.35 Years

PAWC - Water Operations
Water Operations
311.20 Pumping Equipment - Electric
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 39 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1957	5,932.62	39.00	152.12	3.72	565.19
1958	77.00	39.00	1.97	4.09	8.08
1974	5,101.00	39.00	130.79	10.38	1,357.59
1977	19,707.60	39.00	505.32	11.62	5,872.70
1978	19,466.00	39.00	499.13	12.04	6,010.23
1979	2,217.00	39.00	56.85	12.46	708.50
1980	442.01	39.00	11.33	12.89	146.08
1981	8,313.84	39.00	213.17	13.32	2,838.89
1982	1,064.04	39.00	27.28	13.75	375.10
1983	2,670.41	39.00	68.47	14.18	971.16
1984	1,419.00	39.00	36.38	14.62	531.99
1989	6,064.63	39.00	155.50	16.87	2,622.91
1990	10,494.39	39.00	269.09	17.33	4,662.84
1991	9,215.12	39.00	236.28	17.79	4,204.47
1992	66,252.18	39.00	1,698.76	18.26	31,026.61
1993	20,596.00	39.00	528.10	18.74	9,896.24
1995	9,666.02	39.00	247.85	19.70	4,883.64
1996	88,314.70	39.00	2,264.47	20.20	45,731.14
1997	16,692.00	39.00	428.00	20.69	8,855.76
1998	15,203.00	39.00	389.82	21.19	8,261.62
1999	2,634.16	39.00	67.54	21.70	1,465.77
2000	1,885.00	39.00	48.33	22.22	1,073.80
2001	42,860.53	39.00	1,098.98	22.74	24,988.69
2002	44,588.39	39.00	1,143.29	23.27	26,601.21
2003	1,035,918.18	39.00	26,561.86	23.80	632,277.29
2004	153,798.34	39.00	3,943.53	24.35	96,017.03
2005	359,265.22	39.00	9,211.88	24.90	229,385.52

PAWC - Water Operations
Water Operations
311.20 Pumping Equipment - Electric
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 39 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2006	2,848,943.83	39.00	73,049.45	25.46	1,859,995.90
2007	48,268.66	39.00	1,237.65	26.03	32,220.39
2008	268,051.60	39.00	6,873.08	26.61	182,917.43
2009	38,990.24	39.00	999.74	27.21	27,198.52
2010	59,098.52	39.00	1,515.34	27.81	42,138.72
2011	113,318.92	39.00	2,905.60	28.42	82,582.77
2012	917,982.92	39.00	23,537.90	29.05	683,758.59
2013	346,739.28	39.00	8,890.70	29.69	263,956.16
2014	4,382,171.57	39.00	112,362.77	30.34	3,409,596.32
2015	362,904.70	39.00	9,305.20	31.01	288,591.96
2016	555,071.29	39.00	14,232.52	31.70	451,202.90
2017	143,952.41	39.00	3,691.07	32.41	119,614.23
2018	1,672,960.48	39.00	42,896.19	33.13	1,421,278.73
2019	860,577.18	39.00	22,065.96	33.88	747,609.56
2020	2,215,902.37	39.00	56,817.70	34.65	1,968,774.91
2021	1,476,855.64	39.00	37,867.89	35.45	1,342,392.79
2022	47,798.81	39.00	1,225.60	36.28	44,459.39
2023	1,016,578.35	39.00	26,065.97	37.14	968,069.45
2024	78,795.92	39.00	2,020.40	38.04	76,855.50
Total	19,404,821.07	39.00	497,556.84	30.48	15,164,554.30

Composite Average Remaining Life ... 30.48 Years

PAWC - Water Operations
Water Operations
311.50 Pumping Equipment - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 39 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1972	183.00	39.00	4.69	9.56	44.88
1988	352.00	39.00	9.03	16.41	148.11
1989	276.12	39.00	7.08	16.87	119.42
1990	3,900.00	39.00	100.00	17.33	1,732.84
1995	501.09	39.00	12.85	19.70	253.17
1998	1,537.00	39.00	39.41	21.19	835.24
1999	6,578.18	39.00	168.67	21.70	3,660.41
2000	182,753.07	39.00	4,685.95	22.22	104,106.68
2003	4,313.37	39.00	110.60	23.80	2,632.68
2004	42,251.03	39.00	1,083.35	24.35	26,377.52
2005	95,460.52	39.00	2,447.69	24.90	60,950.13
2006	56,531.61	39.00	1,449.52	25.46	36,907.91
2007	5,931.70	39.00	152.09	26.03	3,959.54
2010	68,057.93	39.00	1,745.07	27.81	48,527.00
2011	122,987.94	39.00	3,153.52	28.42	89,629.21
2012	2,019.10	39.00	51.77	29.05	1,503.92
2013	676,135.80	39.00	17,336.72	29.69	514,710.09
2014	8,220.79	39.00	210.79	30.34	6,396.28
2016	72,769.80	39.00	1,865.88	31.70	59,152.66
2017	9,243.96	39.00	237.02	32.41	7,681.07
2018	6,611.16	39.00	169.52	33.13	5,616.57
2019	682,880.32	39.00	17,509.66	33.88	593,238.90
2020	2,605,924.48	39.00	66,818.22	34.65	2,315,299.99
2021	2,579,691.42	39.00	66,145.58	35.45	2,344,819.00
2022	5,039,120.58	39.00	129,207.52	36.28	4,687,066.55
2023	6,267,832.56	39.00	160,712.79	37.14	5,968,745.29
2024	6,458,804.40	39.00	165,609.48	38.04	6,299,750.58

PAWC - Water Operations
Water Operations
311.50 Pumping Equipment - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2025	1,944,539.28	39.00	49,859.71	38.75	1,932,132.51
Total	26,945,408.21	39.00	690,904.18	36.35	25,115,998.15

Composite Average Remaining Life ... 36.35 Years

PAWC - Water Operations
Water Operations
311.52 Pumping Equipment - SOS

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1995	500.74	39.00	12.84	19.70	252.99
1997	242.21	39.00	6.21	20.69	128.50
2007	302,979.30	39.00	7,768.66	26.03	202,245.31
2008	106,545.19	39.00	2,731.91	26.61	72,706.05
2009	90,997.69	39.00	2,333.26	27.21	63,477.48
2010	665,309.01	39.00	17,059.11	27.81	474,381.95
2011	673,316.56	39.00	17,264.43	28.42	490,689.00
2012	213,917.90	39.00	5,485.04	29.05	159,336.52
2013	1,167,611.55	39.00	29,938.60	29.69	888,847.25
2014	1,470,086.74	39.00	37,694.33	30.34	1,143,817.00
2015	1,333,851.63	39.00	34,201.14	31.01	1,060,716.09
2016	1,650,181.56	39.00	42,312.12	31.70	1,341,389.34
2017	2,025,413.90	39.00	51,933.41	32.41	1,682,975.16
2018	970,045.83	39.00	24,872.84	33.13	824,111.22
2019	325,033.26	39.00	8,334.14	33.88	282,366.28
2020	119,694.64	39.00	3,069.08	34.65	106,345.75
2021	268,274.05	39.00	6,878.78	35.45	243,848.58
2023	21,622.78	39.00	554.43	37.14	20,590.99
Total	11,405,624.54	39.00	292,450.34	30.97	9,058,225.46

Composite Average Remaining Life ... 30.97 Years

PAWC - Water Operations
Water Operations
311.53 Pumping Equipment - Water Treatment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 39 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1910	137.73	0.00	0.00	0.00	0.00
1917	133.00	0.00	0.00	0.00	0.00
1919	8,727.40	0.00	0.00	0.00	0.00
1928	134.45	0.00	0.00	0.00	0.00
1929	274.09	0.00	0.00	0.00	0.00
1930	10.36	0.00	0.00	0.00	0.00
1931	3,609.84	0.00	0.00	0.00	0.00
1937	1,084.39	0.00	0.00	0.00	0.00
1939	195.67	0.00	0.00	0.00	0.00
1941	233.57	0.00	0.00	0.00	0.00
1942	901.65	0.00	0.00	0.00	0.00
1944	22.40	0.00	0.00	0.00	0.00
1945	612.26	0.00	0.00	0.00	0.00
1946	36.51	0.00	0.00	0.00	0.00
1947	175.93	0.00	0.00	0.00	0.00
1948	1,721.87	39.00	44.15	0.50	22.08
1950	176.72	39.00	4.53	1.14	5.18
1951	14,946.31	39.00	383.24	1.50	576.37
1952	33,162.46	39.00	850.31	1.86	1,583.06
1953	14,955.45	39.00	383.47	2.23	855.61
1954	9,781.62	39.00	250.81	2.60	651.20
1955	2,307.03	39.00	59.15	2.97	175.51
1956	984.21	39.00	25.24	3.34	84.33
1957	15,308.52	39.00	392.52	3.72	1,458.42
1958	2,821.39	39.00	72.34	4.09	296.14
1959	30,581.95	39.00	784.15	4.47	3,505.93
1960	74,879.69	39.00	1,919.98	4.85	9,317.01

PAWC - Water Operations
Water Operations
311.53 Pumping Equipment - Water Treatment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 39 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1961	172,778.06	39.00	4,430.18	5.23	23,185.41
1962	3,846.01	39.00	98.62	5.62	554.09
1963	21,459.38	39.00	550.24	6.00	3,303.16
1964	32,655.26	39.00	837.31	6.39	5,350.71
1965	199,549.50	39.00	5,116.63	6.78	34,693.03
1966	11,660.13	39.00	298.98	7.17	2,144.07
1967	28,880.66	39.00	740.53	7.57	5,602.41
1968	95,517.72	39.00	2,449.16	7.96	19,496.15
1969	307,919.76	39.00	7,895.34	8.36	65,993.72
1970	5,567.23	39.00	142.75	8.76	1,250.15
1971	51,979.05	39.00	1,332.79	9.16	12,207.62
1972	423,176.07	39.00	10,850.61	9.56	103,774.79
1973	5,691,249.88	39.00	145,928.70	9.97	1,454,954.16
1974	22,347.74	39.00	573.02	10.38	5,947.69
1975	112,278.57	39.00	2,878.92	10.79	31,066.05
1976	70,968.42	39.00	1,819.69	11.21	20,390.13
1977	19,388.63	39.00	497.14	11.62	5,777.65
1978	9,787.72	39.00	250.97	12.04	3,022.01
1979	173,726.38	39.00	4,454.50	12.46	55,519.07
1980	146,097.95	39.00	3,746.08	12.89	48,282.50
1981	505,230.20	39.00	12,954.55	13.32	172,518.83
1982	684,624.45	39.00	17,554.38	13.75	241,348.62
1983	229,348.41	39.00	5,880.70	14.18	83,408.54
1984	311,320.96	39.00	7,982.55	14.62	116,716.72
1985	643,142.22	39.00	16,490.74	15.06	248,402.34
1986	407,620.75	39.00	10,451.76	15.51	162,089.56
1987	667,775.86	39.00	17,122.37	15.96	273,228.03

PAWC - Water Operations
Water Operations
311.53 Pumping Equipment - Water Treatment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1988	283,751.47	39.00	7,275.64	16.41	119,395.31
1989	418,946.17	39.00	10,742.15	16.87	181,191.25
1990	4,401,706.59	39.00	112,863.66	17.33	1,955,753.72
1991	1,019,819.94	39.00	26,149.09	17.79	465,301.26
1992	985,449.05	39.00	25,267.79	18.26	461,496.42
1993	1,214,131.28	39.00	31,131.40	18.74	583,382.06
1994	342,251.03	39.00	8,775.62	19.22	168,661.83
1995	3,082,931.12	39.00	79,049.09	19.70	1,557,614.84
1996	1,060,183.76	39.00	27,184.05	20.20	548,984.65
1997	3,345,175.84	39.00	85,773.28	20.69	1,774,747.16
1998	1,034,657.53	39.00	26,529.54	21.19	562,254.16
1999	3,189,091.46	39.00	81,771.14	21.70	1,774,563.09
2000	2,409,237.91	39.00	61,775.00	22.22	1,372,440.77
2001	2,395,199.84	39.00	61,415.05	22.74	1,396,457.35
2002	1,311,520.09	39.00	33,628.54	23.27	782,446.27
2003	2,219,803.79	39.00	56,917.74	23.80	1,354,867.17
2004	383,622.14	39.00	9,836.41	24.35	239,497.13
2005	64,788.35	39.00	1,661.23	24.90	41,366.40
2006	234,701.03	39.00	6,017.94	25.46	153,229.75
2007	1,472,539.40	39.00	37,757.22	26.03	982,952.28
2008	315,637.75	39.00	8,093.23	26.61	215,390.05
2009	166,046.08	39.00	4,257.57	27.21	115,829.17
2010	222,616.68	39.00	5,708.09	27.81	158,731.25
2011	329,273.84	39.00	8,442.87	28.42	239,962.98
2012	460,640.66	39.00	11,811.24	29.05	343,107.70
2013	203,020.58	39.00	5,205.63	29.69	154,549.93
2014	121,523.26	39.00	3,115.96	30.34	94,552.50

PAWC - Water Operations
Water Operations
311.53 Pumping Equipment - Water Treatment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2015	386,471.90	39.00	9,909.48	31.01	307,333.25
2016	297,614.05	39.00	7,631.09	31.70	241,922.66
2017	66,657.04	39.00	1,709.15	32.41	55,387.27
2018	891,894.73	39.00	22,868.97	33.13	757,717.25
2019	112,378.15	39.00	2,881.48	33.88	97,626.32
2020	142,298.54	39.00	3,648.66	34.65	126,428.76
2021	438,896.41	39.00	11,253.69	35.45	398,936.34
2022	118,121.94	39.00	3,028.75	36.28	109,869.45
2023	587,754.33	39.00	15,070.54	37.14	559,707.98
2024	25,792.73	39.00	661.35	38.04	25,157.56
2025	1,130,062.20	39.00	28,975.80	38.75	1,122,852.05
Total	48,154,022.10	32.64	1,234,294.20	20.11	24,820,423.39

Composite Average Remaining Life ... 20.11 Years

PAWC - Water Operations
Water Operations
311.54 Pumping Equipment - Transmission
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1999	35,292.32	39.00	904.93	21.70	19,638.34
2000	475,480.08	39.00	12,191.73	22.22	270,860.86
2001	36,531.40	39.00	936.70	22.74	21,298.66
2002	538,352.70	39.00	13,803.84	23.27	321,178.51
2003	70,588.30	39.00	1,809.95	23.80	43,083.88
2004	268,409.81	39.00	6,882.27	24.35	167,569.52
2005	16,038.24	39.00	411.23	24.90	10,240.18
2006	189,538.24	39.00	4,859.93	25.46	123,744.23
2007	1,098,486.35	39.00	28,166.17	26.03	733,263.68
2008	658,548.44	39.00	16,885.77	26.61	449,391.05
2009	1,314,447.17	39.00	33,703.59	27.21	916,922.10
2010	291,357.56	39.00	7,470.67	27.81	207,745.22
2011	161,831.12	39.00	4,149.49	28.42	117,936.73
2012	145,779.02	39.00	3,737.90	29.05	108,583.35
2013	243,526.60	39.00	6,244.24	29.69	185,385.24
2015	53,358.27	39.00	1,368.15	31.01	42,431.99
2016	287,116.14	39.00	7,361.91	31.70	233,389.18
2017	135,483.94	39.00	3,473.93	32.41	112,577.54
2018	157,143.96	39.00	4,029.31	33.13	133,503.07
2019	27,912.06	39.00	715.69	33.88	24,248.06
2020	81,516.58	39.00	2,090.16	34.65	72,425.48
2021	3,000.02	39.00	76.92	35.45	2,726.88
2022	48,563.86	39.00	1,245.22	36.28	45,170.99
2023	2,922,287.54	39.00	74,930.05	37.14	2,782,842.37
2024	28,865.32	39.00	740.13	38.04	28,154.49
2025	543,332.19	39.00	13,931.52	38.75	539,865.56

PAWC - Water Operations
Water Operations
311.54 Pumping Equipment - Transmission
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	9,832,787.23	39.00	252,121.39	30.60	7,714,177.12

Composite Average Remaining Life ... *30.60 Years*

PAWC - Water Operations
Water Operations
320.10 Purification System - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 *Survivor Curve:* S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1900	24,528.59	0.00	0.00	0.00	0.00
1903	17,503.17	0.00	0.00	0.00	0.00
1905	584.13	0.00	0.00	0.00	0.00
1906	39,860.97	0.00	0.00	0.00	0.00
1907	187.12	0.00	0.00	0.00	0.00
1909	3,575.95	0.00	0.00	0.00	0.00
1910	1,630.96	0.00	0.00	0.00	0.00
1915	149.00	0.00	0.00	0.00	0.00
1920	2.00	0.00	0.00	0.00	0.00
1921	42,429.29	0.00	0.00	0.00	0.00
1923	28,824.04	0.00	0.00	0.00	0.00
1924	1,765.00	0.00	0.00	0.00	0.00
1927	254.95	50.00	5.10	0.64	3.28
1928	1,883.14	50.00	37.66	0.87	32.69
1929	51,419.23	50.00	1,028.38	1.11	1,146.50
1930	2,023.01	50.00	40.46	1.37	55.47
1931	42,462.90	50.00	849.26	1.63	1,386.85
1935	509.45	50.00	10.19	2.71	27.65
1937	50,237.31	50.00	1,004.75	3.27	3,284.85
1947	278.00	50.00	5.56	6.18	34.39
1949	14,516.83	50.00	290.34	6.80	1,973.63
1951	25,161.08	50.00	503.22	7.42	3,734.77
1952	66,404.24	50.00	1,328.08	7.74	10,276.82
1953	143,183.72	50.00	2,863.67	8.06	23,073.84
1954	40,029.75	50.00	800.59	8.38	6,708.87
1955	2,412.48	50.00	48.25	8.71	420.04
1956	179.54	50.00	3.59	9.03	32.44

PAWC - Water Operations
Water Operations
320.10 Purification System - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1957	1,360.46	50.00	27.21	9.37	254.86
1958	2,147.31	50.00	42.95	9.70	416.68
1959	27,652.04	50.00	553.04	10.04	5,553.39
1961	80,918.05	50.00	1,618.36	10.73	17,366.98
1962	5,584.68	50.00	111.69	11.08	1,237.77
1963	3,247.71	50.00	64.95	11.44	742.85
1964	977.76	50.00	19.56	11.80	230.66
1965	219,097.73	50.00	4,381.95	12.16	53,276.84
1966	310.40	50.00	6.21	12.53	77.76
1967	210.00	50.00	4.20	12.90	54.17
1968	3,546.04	50.00	70.92	13.27	941.42
1969	1,371,344.60	50.00	27,426.89	13.66	374,534.35
1970	4,526.51	50.00	90.53	14.04	1,271.24
1971	440.64	50.00	8.81	14.43	127.20
1972	822,351.90	50.00	16,447.04	14.83	243,920.68
1973	30,712.90	50.00	614.26	15.23	9,357.03
1974	84.31	50.00	1.69	15.64	26.37
1975	192,183.99	50.00	3,843.68	16.05	61,710.18
1976	27,249.07	50.00	544.98	16.47	8,978.51
1977	915.82	50.00	18.32	16.90	309.57
1979	6,225.74	50.00	124.51	17.77	2,212.99
1980	1,374.20	50.00	27.48	18.22	500.73
1981	8,541.92	50.00	170.84	18.67	3,189.93
1982	2,891,251.18	50.00	57,825.02	19.13	1,106,354.40
1983	137,453.13	50.00	2,749.06	19.60	53,884.26
1984	5,629.18	50.00	112.58	20.08	2,260.34
1985	1,681,519.27	50.00	33,630.38	20.56	691,476.69

PAWC - Water Operations
Water Operations
320.10 Purification System - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1986	185,751.99	50.00	3,715.04	21.05	78,214.80
1987	27,820.42	50.00	556.41	21.55	11,993.22
1988	5,166,890.45	50.00	103,337.81	22.06	2,280,129.15
1989	3,595,432.25	50.00	71,908.64	22.58	1,623,996.38
1990	18,873,142.77	50.00	377,462.85	23.11	8,724,324.73
1991	5,453,527.70	50.00	109,070.55	23.65	2,579,720.21
1992	10,197,318.51	50.00	203,946.37	24.20	4,935,672.44
1993	23,935,155.32	50.00	478,703.10	24.76	11,852,858.96
1994	1,782,566.96	50.00	35,651.34	25.33	903,075.14
1995	4,832,804.62	50.00	96,656.09	25.91	2,504,589.40
1996	378,584.90	50.00	7,571.70	26.51	200,692.33
1997	9,241,333.14	50.00	184,826.66	27.11	5,010,789.74
1998	910,686.40	50.00	18,213.73	27.73	505,034.50
1999	9,760,277.34	50.00	195,205.54	28.36	5,535,719.02
2000	355,621.35	50.00	7,112.43	29.00	206,272.16
2001	1,117,241.93	50.00	22,344.84	29.66	662,711.12
2003	2,316.85	50.00	46.34	31.01	1,437.08
2004	38,706.38	50.00	774.13	31.71	24,549.80
2005	80,991.72	50.00	1,619.83	32.43	52,526.47
2006	5,579,298.20	50.00	111,585.96	33.16	3,699,803.94
2007	172,601.60	50.00	3,452.03	33.90	117,029.40
2008	555,001.52	50.00	11,100.03	34.66	384,755.30
2009	589,732.87	50.00	11,794.66	35.44	417,998.76
2010	372,423.69	50.00	7,448.47	36.23	269,881.94
2011	9,820,334.80	50.00	196,406.69	37.04	7,275,551.12
2012	19,850,800.78	50.00	397,016.01	37.87	15,035,045.05
2013	3,632,074.02	50.00	72,641.48	38.71	2,812,222.91

PAWC - Water Operations
Water Operations
320.10 Purification System - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2014	2,103,871.60	50.00	42,077.43	39.57	1,665,177.10
2016	562,914.51	50.00	11,258.29	41.34	465,470.06
2017	371,008.06	50.00	7,420.16	42.25	313,533.11
2018	46,774,837.42	50.00	935,496.73	43.18	40,394,156.27
2019	1,284,580.92	50.00	25,691.62	44.12	1,133,498.57
2021	12,890,104.13	50.00	257,802.08	46.04	11,869,258.44
2022	144,098.02	50.00	2,881.96	47.02	135,504.99
2023	15,613,629.75	50.00	312,272.59	48.01	14,990,957.46
2024	49,467.62	50.00	989.35	49.00	48,479.12
Total	224,431,802.90	43.33	4,485,415.17	33.76	151,415,090.13

Composite Average Remaining Life ... *33.76 Years*

PAWC - Water Operations
Water Operations
320.20 Chemical Treatment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 42 *Survivor Curve:* R0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1917	978.00	0.00	0.00	0.00	0.00
1928	456.40	0.00	0.00	0.00	0.00
1929	45.50	0.00	0.00	0.00	0.00
1935	33.55	0.00	0.00	0.00	0.00
1940	8.13	0.00	0.00	0.00	0.00
1945	29.17	42.00	0.69	1.95	1.35
1947	7,302.60	42.00	173.87	2.88	501.05
1949	80.97	42.00	1.93	3.78	7.29
1950	204.80	42.00	4.88	4.22	20.59
1951	48.93	42.00	1.16	4.65	5.42
1953	62.36	42.00	1.48	5.49	8.15
1955	10,196.33	42.00	242.77	6.31	1,531.28
1957	562.75	42.00	13.40	7.11	95.26
1958	39,891.80	42.00	949.79	7.51	7,131.05
1962	6,154.17	42.00	146.53	9.09	1,332.11
1963	823.57	42.00	19.61	9.49	186.07
1964	7,636.81	42.00	181.83	9.89	1,797.75
1965	37,339.44	42.00	889.02	10.29	9,146.35
1966	1,688.98	42.00	40.21	10.69	429.91
1967	688.22	42.00	16.39	11.10	181.82
1968	59,108.21	42.00	1,407.32	11.50	16,191.16
1969	2,258.71	42.00	53.78	11.92	640.84
1970	8,536.97	42.00	203.26	12.33	2,506.49
1971	15,632.78	42.00	372.20	12.75	4,745.82
1972	32,603.76	42.00	776.27	13.17	10,225.95
1973	257,616.10	42.00	6,133.64	13.60	83,419.13
1974	31,941.16	42.00	760.49	14.03	10,670.95

PAWC - Water Operations
Water Operations
320.20 Chemical Treatment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 42 **Survivor Curve:** R0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1975	42,769.93	42.00	1,018.32	14.47	14,732.57
1976	1,073,863.59	42.00	25,567.85	14.91	381,169.65
1977	28,840.00	42.00	686.66	15.35	10,542.72
1978	51,727.94	42.00	1,231.60	15.80	19,464.35
1979	20,509.89	42.00	488.32	16.26	7,939.92
1980	61,671.01	42.00	1,468.34	16.72	24,551.28
1981	192,581.16	42.00	4,585.21	17.19	78,803.08
1982	7,527.22	42.00	179.22	17.66	3,164.61
1983	79,951.11	42.00	1,903.57	18.13	34,520.72
1984	292,693.25	42.00	6,968.80	18.62	129,736.62
1985	978,744.46	42.00	23,303.14	19.10	445,204.17
1986	2,083,104.19	42.00	49,597.07	19.60	972,007.98
1987	719,004.40	42.00	17,118.93	20.10	344,042.25
1988	111,285.48	42.00	2,649.62	20.60	54,586.17
1989	1,052,756.10	42.00	25,065.29	21.11	529,158.40
1990	436,377.41	42.00	10,389.80	21.63	224,699.38
1991	706,070.04	42.00	16,810.97	22.15	372,322.20
1992	4,299,099.40	42.00	102,358.18	22.67	2,320,809.24
1993	99,614.98	42.00	2,371.75	23.21	55,037.18
1994	739,039.18	42.00	17,595.94	23.74	417,756.08
1995	4,638,977.20	42.00	110,450.40	24.28	2,682,121.24
1996	2,154,720.70	42.00	51,302.21	24.83	1,273,827.74
1997	3,334,739.32	42.00	79,397.52	25.38	2,015,178.56
1998	2,072,021.04	42.00	49,333.19	25.94	1,279,559.49
1999	7,194,288.92	42.00	171,290.36	26.50	4,538,709.74
2000	67,552.81	42.00	1,608.38	27.06	43,524.86
2001	2,457,933.54	42.00	58,521.46	27.63	1,616,962.36

PAWC - Water Operations
Water Operations
320.20 Chemical Treatment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *42* ***Survivor Curve:*** *R0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2002	77,713.84	42.00	1,850.31	28.20	52,182.83
2003	1,964,206.88	42.00	46,766.22	28.78	1,345,854.87
2004	1,990,696.83	42.00	47,396.93	29.36	1,391,448.45
2005	2,161,553.64	42.00	51,464.89	29.94	1,540,823.85
2006	499,472.13	42.00	11,892.04	30.52	363,000.47
2007	1,947,345.46	42.00	46,364.76	31.11	1,442,506.40
2008	1,350,615.98	42.00	32,157.10	31.70	1,019,452.63
2009	82,919.55	42.00	1,974.25	32.29	63,756.94
2010	438,539.91	42.00	10,441.29	32.89	343,394.30
2011	1,033,930.77	42.00	24,617.08	33.48	824,279.72
2012	685,575.24	42.00	16,323.01	34.08	556,309.25
2013	1,516,285.09	42.00	36,101.56	34.68	1,251,999.84
2014	304,829.68	42.00	7,257.75	35.28	256,057.31
2015	3,645,945.28	42.00	86,807.09	35.88	3,114,832.10
2016	4,980,688.04	42.00	118,586.27	36.49	4,326,722.87
2017	2,403,250.89	42.00	57,219.51	37.09	2,122,327.05
2018	1,114,876.03	42.00	26,544.32	37.70	1,000,660.24
2019	3,459,004.02	42.00	82,356.17	38.31	3,154,794.11
2020	7,834,644.60	42.00	186,536.73	38.92	7,259,495.38
2021	11,081,791.67	42.00	263,848.75	39.53	10,429,838.76
2022	13,412,801.43	42.00	319,348.25	40.14	12,820,076.13
2023	17,240,492.29	42.00	410,482.56	40.76	16,731,660.04
2024	10,794,071.88	42.00	256,998.36	41.38	10,634,551.09
2025	36,091,518.62	42.00	859,310.68	41.84	35,957,800.27

PAWC - Water Operations
Water Operations
320.20 Chemical Treatment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *42* ***Survivor Curve:*** *R0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	161,632,164.19	39.31	3,848,298.50	35.87	138,044,733.32

Composite Average Remaining Life ... *35.87 Years*

PAWC - Water Operations
Water Operations
320.30 Granular Activated Carbon
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 11 **Survivor Curve:** L0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1992	755.89	11.00	68.71	1.93	132.60
1994	3,127.19	11.00	284.25	2.17	617.62
1995	22,529.51	11.00	2,047.85	2.28	4,670.38
1996	19,021.10	11.00	1,728.95	2.38	4,119.25
1998	24,638.62	11.00	2,239.56	2.59	5,790.92
1999	9,019.00	11.00	819.79	2.70	2,210.98
2000	242,357.48	11.00	22,029.42	2.82	62,069.12
2001	565,915.16	11.00	51,439.64	2.95	151,688.02
2002	259,574.29	11.00	23,594.36	3.09	72,945.11
2003	11,549.71	11.00	1,049.83	3.25	3,407.91
2007	133,689.45	11.00	12,151.89	3.98	48,385.82
2008	22,525.60	11.00	2,047.50	4.20	8,589.28
2009	290,056.89	11.00	26,365.12	4.42	116,528.18
2010	252,059.62	11.00	22,911.31	4.66	106,706.60
2011	762,602.88	11.00	69,317.84	4.91	340,183.85
2012	382,409.40	11.00	34,759.63	5.17	179,738.82
2013	1,278,638.81	11.00	116,223.63	5.45	633,171.69
2014	648,647.47	11.00	58,959.70	5.74	338,378.41
2015	2,088.22	11.00	189.81	6.05	1,147.50
2016	110,250.14	11.00	10,021.34	6.37	63,812.22
2017	406,505.55	11.00	36,949.88	6.71	247,806.87
2018	1,504,916.77	11.00	136,791.48	7.06	966,188.94
2019	1,347,102.38	11.00	122,446.72	7.44	910,942.93
2020	874,697.64	11.00	79,506.84	7.85	624,161.30
2021	768,470.48	11.00	69,851.18	8.32	580,958.98
2022	3,315,089.96	11.00	301,329.66	8.86	2,668,375.23
2023	7,727,540.14	11.00	702,405.38	9.47	6,654,571.27

PAWC - Water Operations
Water Operations
320.30 Granular Activated Carbon

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *11* ***Survivor Curve:*** *L0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2024	2,226,099.32	11.00	202,344.36	10.18	2,059,877.07
2025	799,177.36	11.00	72,642.32	10.78	783,081.23
Total	24,011,056.03	11.00	2,182,517.92	8.08	17,640,258.09

Composite Average Remaining Life ... 8.08 Years

PAWC - Water Operations
Water Operations
320.37 Waste Handling and Treatment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *30* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1991	6,051,057.45	30.00	201,701.62	4.43	893,528.60
1997	592,975.99	30.00	19,765.84	7.06	139,558.74
1999	1,599,696.19	30.00	53,323.13	8.19	436,472.43
2000	700,705.10	30.00	23,356.80	8.79	205,390.85
2002	3,162.77	30.00	105.43	10.09	1,063.46
2003	256,272.33	30.00	8,542.40	10.77	92,027.09
2004	25,393.53	30.00	846.45	11.48	9,717.21
2005	13,991.19	30.00	466.37	12.21	5,693.53
2013	15,021.77	30.00	500.72	18.70	9,362.84
2014	585,687.37	30.00	19,522.88	19.58	382,286.19
2015	1,027,405.88	30.00	34,246.81	20.48	701,337.06
2016	3,708,242.13	30.00	123,607.89	21.39	2,643,788.16
2017	16,493.28	30.00	549.78	22.31	12,265.47
2023	749,990.01	30.00	24,999.63	28.04	700,942.08
2025	296,401.16	30.00	9,880.02	29.75	293,968.56
Total	15,642,496.15	30.00	521,415.77	12.52	6,527,402.28

Composite Average Remaining Life ... 12.52 Years

PAWC - Water Operations
Water Operations
330.00 Distribution Reservoirs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1906	5,126.82	65.00	78.87	3.85	303.79
1907	47,398.97	65.00	729.21	4.20	3,059.98
1911	21,166.48	65.00	325.64	5.53	1,800.43
1912	4,869.35	65.00	74.91	5.87	439.51
1922	37,493.82	65.00	576.83	9.22	5,316.84
1923	14,266.34	65.00	219.48	9.56	2,097.70
1924	1,161.00	65.00	17.86	9.90	176.75
1929	2,421.17	65.00	37.25	11.61	432.53
1931	5,400.00	65.00	83.08	12.31	1,022.41
1933	65.00	65.00	1.00	13.01	13.01
1935	289.70	65.00	4.46	13.71	61.12
1938	6,799.96	65.00	104.61	14.79	1,547.15
1940	15,697.76	65.00	241.50	15.52	3,747.16
1941	8,321.81	65.00	128.03	15.88	2,033.29
1943	65.00	65.00	1.00	16.62	16.62
1949	20,319.41	65.00	312.61	18.90	5,908.64
1950	11,222.42	65.00	172.65	19.29	3,330.52
1951	84,607.38	65.00	1,301.65	19.68	25,620.20
1952	1,055.33	65.00	16.24	20.08	325.98
1953	767,149.49	65.00	11,802.29	20.48	241,667.86
1954	134,829.51	65.00	2,074.30	20.88	43,306.16
1955	59,098.74	65.00	909.21	21.28	19,350.18
1956	48,733.30	65.00	749.74	21.69	16,262.00
1957	84,603.91	65.00	1,301.60	22.10	28,767.43
1958	76,375.43	65.00	1,175.01	22.52	26,456.76
1959	167,086.54	65.00	2,570.56	22.93	58,955.15
1960	24,594.73	65.00	378.38	23.36	8,837.72

PAWC - Water Operations
Water Operations
330.00 Distribution Reservoirs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1961	401,860.35	65.00	6,182.46	23.78	147,034.59
1962	187,270.36	65.00	2,881.08	24.21	69,757.13
1963	15,182.04	65.00	233.57	24.65	5,756.51
1964	45,660.48	65.00	702.47	25.08	17,620.24
1965	55,714.21	65.00	857.14	25.53	21,878.71
1966	395,068.78	65.00	6,077.98	25.97	157,851.31
1967	808,216.49	65.00	12,434.09	26.42	328,528.59
1968	283,136.03	65.00	4,355.93	26.88	117,070.56
1969	84,459.71	65.00	1,299.38	27.34	35,519.56
1970	69,969.80	65.00	1,076.46	27.80	29,924.87
1971	377,069.90	65.00	5,801.07	28.27	163,988.54
1972	173,525.11	65.00	2,669.61	28.74	76,729.53
1973	3,537,472.80	65.00	54,422.61	29.22	1,590,291.50
1974	695,684.14	65.00	10,702.82	29.71	317,930.72
1975	390,540.59	65.00	6,008.31	30.19	181,415.90
1976	400,438.60	65.00	6,160.59	30.69	189,062.90
1977	199,857.87	65.00	3,074.73	31.19	95,897.02
1978	447,875.12	65.00	6,890.38	31.69	218,390.42
1979	304,411.32	65.00	4,683.25	32.21	150,828.13
1980	1,077.30	65.00	16.57	32.72	542.36
1981	54,685.69	65.00	841.32	33.25	27,971.07
1982	1,048,448.37	65.00	16,129.96	33.78	544,827.11
1983	1,392,338.73	65.00	21,420.58	34.31	734,992.75
1984	32,388.90	65.00	498.29	34.86	17,368.46
1985	1,753,830.33	65.00	26,981.98	35.40	955,275.30
1986	1,780,510.58	65.00	27,392.45	35.96	985,074.48
1987	240,488.37	65.00	3,699.82	36.53	135,136.41

PAWC - Water Operations
Water Operations
330.00 Distribution Reservoirs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1988	3,098,511.15	65.00	47,669.36	37.09	1,768,288.15
1989	5,060,137.70	65.00	77,848.20	37.67	2,932,783.70
1990	6,134,740.75	65.00	94,380.54	38.26	3,610,755.03
1991	675,751.86	65.00	10,396.17	38.85	403,901.73
1992	1,316,505.21	65.00	20,253.91	39.45	799,028.54
1993	7,642,763.40	65.00	117,580.87	40.06	4,710,316.60
1994	2,029,447.84	65.00	31,222.25	40.68	1,269,989.69
1995	1,586,740.83	65.00	24,411.38	41.30	1,008,244.38
1996	3,347,830.45	65.00	51,505.04	41.93	2,159,838.73
1997	2,282,069.17	65.00	35,108.72	42.58	1,494,877.58
1998	1,216,261.83	65.00	18,711.70	43.23	808,874.33
1999	5,103,282.67	65.00	78,511.97	43.89	3,445,940.03
2000	3,636,701.15	65.00	55,949.20	44.56	2,493,169.71
2001	5,035,983.93	65.00	77,476.61	45.24	3,505,047.73
2002	2,278,154.48	65.00	35,048.50	45.93	1,609,788.03
2003	2,411,912.94	65.00	37,106.32	46.63	1,730,214.05
2004	1,520,307.39	65.00	23,389.32	47.34	1,107,230.48
2005	3,827,706.90	65.00	58,887.74	48.06	2,830,009.39
2006	2,882,960.94	65.00	44,353.20	48.79	2,163,971.55
2007	1,535,575.60	65.00	23,624.22	49.53	1,170,088.94
2008	236,283.67	65.00	3,635.13	50.28	182,785.70
2009	24,847.54	65.00	382.27	51.04	19,512.88
2010	797,791.47	65.00	12,273.70	51.82	636,043.98
2011	249,955.27	65.00	3,845.46	52.61	202,295.25
2012	1,178,046.53	65.00	18,123.78	53.41	967,935.37
2013	4,262,135.79	65.00	65,571.26	54.22	3,555,174.73
2014	6,070,680.40	65.00	93,395.00	55.04	5,140,518.22

PAWC - Water Operations
Water Operations
330.00 Distribution Reservoirs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2015	376,902.04	65.00	5,798.49	55.88	324,004.09
2016	8,407,763.94	65.00	129,350.10	56.72	7,337,333.24
2017	5,267,135.15	65.00	81,032.77	57.59	4,666,473.17
2018	3,561,538.40	65.00	54,792.85	58.46	3,203,238.49
2019	3,423,573.89	65.00	52,670.32	59.35	3,126,036.81
2021	2,281,411.56	65.00	35,098.61	61.17	2,147,001.80
2022	2,654,127.19	65.00	40,832.69	62.10	2,535,722.02
2023	2,840,628.70	65.00	43,701.94	63.05	2,755,414.01
2024	6,704,772.26	65.00	103,150.25	64.01	6,602,857.51
2025	4,708,226.88	65.00	72,434.19	64.75	4,690,309.77
Total	132,496,568.21	65.00	2,038,406.88	47.55	96,932,536.99

Composite Average Remaining Life ... 47.55 Years

PAWC - Water Operations
Water Operations
330.10 Elevated Tanks

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1992	189,738.86	65.00	2,919.06	39.45	115,158.50
1994	0.01	65.00	0.00	40.68	0.01
2007	109,596.89	65.00	1,686.10	49.53	83,511.43
2008	452,291.74	65.00	6,958.33	50.28	349,886.49
2009	610,424.47	65.00	9,391.14	51.04	479,368.89
2010	876,241.28	65.00	13,480.62	51.82	698,588.56
2011	1.21	65.00	0.02	52.61	0.98
2012	70,427.57	65.00	1,083.50	53.41	57,866.42
2013	7,305,295.42	65.00	112,389.06	54.22	6,093,565.04
2014	402,306.06	65.00	6,189.32	55.04	340,663.90
2015	75,692.00	65.00	1,164.49	55.88	65,068.68
2017	22,485.50	65.00	345.93	57.59	19,921.26
2018	41,920.13	65.00	644.92	58.46	37,702.86
2019	3,889.76	65.00	59.84	59.35	3,551.71
2021	3,743,807.08	65.00	57,596.98	61.17	3,523,240.03
2023	73,266.92	65.00	1,127.18	63.05	71,069.02
2024	3,546,697.40	65.00	54,564.53	64.01	3,492,786.43
Total	17,524,082.30	65.00	269,601.02	57.24	15,431,950.20

Composite Average Remaining Life ... 57.24 Years

PAWC - Water Operations
Water Operations
330.20 Ground Level Facilities

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2004	411,560.09	65.00	6,331.69	47.34	299,736.67
2007	729,975.76	65.00	11,230.39	49.53	556,232.18
2008	37,653.40	65.00	579.28	50.28	29,128.14
2009	21,769.28	65.00	334.91	51.04	17,095.51
2010	13,139.81	65.00	202.15	51.82	10,475.79
2011	261,613.14	65.00	4,024.81	52.61	211,730.26
2012	1,944,284.21	65.00	29,912.04	53.41	1,597,510.29
2013	5,126,495.63	65.00	78,869.09	54.22	4,276,163.08
2014	4,119,155.97	65.00	63,371.57	55.04	3,488,010.39
2015	141,079.99	65.00	2,170.46	55.88	121,279.51
2016	1,686,605.76	65.00	25,947.76	56.72	1,471,876.30
2017	150,532.79	65.00	2,315.89	57.59	133,366.09
2018	115,120.43	65.00	1,771.08	58.46	103,539.02
2019	33,498.57	65.00	515.36	59.35	30,587.27
2021	3,736,874.95	65.00	57,490.33	61.17	3,516,716.31
2023	129,755.90	65.00	1,996.24	63.05	125,863.41
2025	461,649.62	65.00	7,102.30	64.75	459,892.82
Total	19,120,765.30	65.00	294,165.35	55.92	16,449,203.04

Composite Average Remaining Life ... 55.92 Years

PAWC - Water Operations
Water Operations
330.30 Below Grade Facilities

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2007	173,959.09	65.00	2,676.29	49.53	132,554.60
2010	31,397.64	65.00	483.04	51.82	25,031.95
2011	100,934.51	65.00	1,552.84	52.61	81,688.90
2014	280,555.88	65.00	4,316.24	55.04	237,568.53
2016	231,860.11	65.00	3,567.08	56.72	202,340.94
Total	818,707.23	65.00	12,595.48	53.92	679,184.93

Composite Average Remaining Life ... 53.92 Years

PAWC - Water Operations
Water Operations
330.40 Clearwell

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1959	5,050.00	65.00	77.69	22.93	1,781.85
1977	63,215.82	65.00	972.55	31.19	30,332.60
1978	7,120.73	65.00	109.55	31.69	3,472.17
1986	137,850.00	65.00	2,120.77	35.96	76,266.05
1987	14,509.00	65.00	223.22	36.53	8,152.97
2012	12,768,982.03	65.00	196,445.70	53.41	10,491,562.93
2017	19,400.00	65.00	298.46	57.59	17,187.63
2018	32,063.64	65.00	493.29	58.46	28,837.96
2019	5,254.37	65.00	80.84	59.35	4,797.72
2020	24,663.00	65.00	379.43	60.25	22,861.35
Total	13,078,108.59	65.00	201,201.49	53.11	10,685,253.23

Composite Average Remaining Life ... 53.11 Years

PAWC - Water Operations
Water Operations
331.00 Mains and Accessories

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 90 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1901	201,565.27	90.00	2,239.61	12.11	27,111.53
1902	186,794.01	90.00	2,075.49	12.41	25,757.36
1903	314,574.95	90.00	3,495.27	12.72	44,450.78
1904	96,764.79	90.00	1,075.16	13.02	13,998.01
1905	503,911.03	90.00	5,599.00	13.33	74,642.46
1906	289,932.40	90.00	3,221.47	13.65	43,961.69
1907	1,720,476.62	90.00	19,116.38	13.96	266,958.66
1908	501,194.69	90.00	5,568.82	14.29	79,561.12
1909	330,561.01	90.00	3,672.89	14.61	53,670.44
1910	276,159.81	90.00	3,068.44	14.94	45,849.09
1911	145,063.03	90.00	1,611.81	15.28	24,621.75
1912	253,641.87	90.00	2,818.24	15.61	44,003.40
1913	98,121.30	90.00	1,090.24	15.95	17,391.97
1914	454,814.70	90.00	5,053.49	16.30	82,368.99
1915	267,320.77	90.00	2,970.23	16.65	49,458.01
1916	1,137,305.72	90.00	12,636.71	17.01	214,926.94
1917	135,710.15	90.00	1,507.89	17.37	26,192.31
1918	79,057.45	90.00	878.41	17.74	15,580.93
1919	132,888.61	90.00	1,476.54	18.11	26,740.61
1920	260,069.17	90.00	2,889.65	18.49	53,425.85
1921	255,140.94	90.00	2,834.90	18.87	53,501.97
1922	224,020.49	90.00	2,489.11	19.26	47,944.97
1923	1,707,825.13	90.00	18,975.81	19.66	373,020.53
1924	928,528.11	90.00	10,316.96	20.06	206,953.32
1925	707,304.90	90.00	7,858.93	20.47	160,852.17
1926	1,394,281.38	90.00	15,491.99	20.88	323,496.11
1927	242,744.23	90.00	2,697.15	21.30	57,454.20

PAWC - Water Operations
Water Operations
331.00 Mains and Accessories

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 90 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1928	375,190.70	90.00	4,168.78	21.73	90,580.65
1929	197,307.15	90.00	2,192.30	22.16	48,583.98
1930	159,481.51	90.00	1,772.01	22.60	40,048.31
1931	234,610.81	90.00	2,606.78	23.05	60,080.62
1932	70,331.37	90.00	781.46	23.50	18,364.55
1933	40,220.73	90.00	446.90	23.96	10,707.37
1934	82,301.83	90.00	914.46	24.42	22,335.76
1935	139,100.97	90.00	1,545.56	24.90	38,480.08
1936	108,338.72	90.00	1,203.76	25.38	30,546.40
1937	171,572.70	90.00	1,906.36	25.86	49,300.38
1938	80,668.86	90.00	896.32	26.35	23,620.50
1939	165,937.83	90.00	1,843.75	26.85	49,506.74
1940	127,479.98	90.00	1,416.44	27.36	38,752.44
1941	119,408.34	90.00	1,326.76	27.87	36,978.09
1942	94,010.03	90.00	1,044.55	28.39	29,654.45
1943	81,075.53	90.00	900.84	28.91	26,047.40
1944	43,384.73	90.00	482.05	29.45	14,194.59
1945	235,639.99	90.00	2,618.22	29.98	78,505.22
1946	324,469.22	90.00	3,605.21	30.53	110,062.26
1947	286,425.99	90.00	3,182.51	31.08	98,910.87
1948	285,196.03	90.00	3,168.84	31.64	100,251.95
1949	121,410.74	90.00	1,349.01	32.20	43,443.40
1950	139,592.23	90.00	1,551.02	32.77	50,834.06
1951	442,675.25	90.00	4,918.61	33.35	164,042.16
1952	409,484.63	90.00	4,549.82	33.93	154,395.27
1953	954,381.29	90.00	10,604.22	34.52	366,095.07
1954	1,294,567.10	90.00	14,384.06	35.12	505,151.12

PAWC - Water Operations
Water Operations
331.00 Mains and Accessories

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *90* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1955	2,801,411.63	90.00	31,126.75	35.72	1,111,853.33
1956	1,490,629.92	90.00	16,562.53	36.33	601,676.67
1957	2,194,406.70	90.00	24,382.26	36.94	900,704.18
1958	1,886,696.86	90.00	20,963.27	37.56	787,464.42
1959	2,114,036.65	90.00	23,489.26	38.19	897,051.10
1960	2,873,719.32	90.00	31,930.17	38.82	1,239,575.94
1961	3,655,301.23	90.00	40,614.40	39.46	1,602,597.30
1962	1,417,004.90	90.00	15,744.48	40.10	631,383.88
1963	2,031,623.30	90.00	22,573.56	40.75	919,887.45
1964	4,874,891.42	90.00	54,165.38	41.40	2,242,716.89
1965	4,685,869.74	90.00	52,065.14	42.06	2,190,112.23
1966	3,999,595.79	90.00	44,439.89	42.73	1,898,924.95
1967	5,560,147.41	90.00	61,779.33	43.40	2,681,505.65
1968	5,500,482.70	90.00	61,116.39	44.08	2,694,093.01
1969	4,907,127.70	90.00	54,523.56	44.76	2,440,661.58
1970	3,773,897.91	90.00	41,932.14	45.45	1,905,847.30
1971	5,387,942.71	90.00	59,865.94	46.14	2,762,410.16
1972	8,233,419.67	90.00	91,482.31	46.84	4,285,116.69
1973	8,234,191.03	90.00	91,490.88	47.54	4,349,812.68
1974	4,889,433.78	90.00	54,326.96	48.25	2,621,356.89
1975	5,944,417.66	90.00	66,048.99	48.96	3,234,039.60
1976	9,853,869.11	90.00	109,487.28	49.69	5,439,910.71
1977	6,141,754.65	90.00	68,241.62	50.41	3,439,957.48
1978	9,865,284.23	90.00	109,614.11	51.14	5,605,280.49
1979	8,849,894.82	90.00	98,332.02	51.87	5,100,408.30
1980	12,286,934.01	90.00	136,521.29	52.61	7,181,938.73
1981	8,446,858.26	90.00	93,853.85	53.35	5,006,997.10

PAWC - Water Operations
Water Operations
331.00 Mains and Accessories

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *90* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1982	6,177,971.18	90.00	68,644.03	54.10	3,713,343.36
1983	9,996,901.04	90.00	111,076.52	54.85	6,092,213.80
1984	14,874,046.49	90.00	165,266.95	55.60	9,189,318.96
1985	18,666,517.45	90.00	207,405.45	56.37	11,690,671.00
1986	24,564,875.74	90.00	272,942.67	57.13	15,593,647.71
1987	25,996,311.13	90.00	288,847.49	57.90	16,724,640.35
1988	35,232,769.82	90.00	391,474.66	58.68	22,969,895.84
1989	32,481,987.47	90.00	360,910.46	59.45	21,457,435.07
1990	34,019,801.48	90.00	377,997.25	60.24	22,769,109.05
1991	21,950,344.88	90.00	243,892.37	61.02	14,883,027.43
1992	25,720,171.53	90.00	285,779.27	61.81	17,665,117.75
1993	36,318,226.75	90.00	403,535.28	62.61	25,264,893.75
1994	39,338,478.20	90.00	437,093.58	63.41	27,716,401.05
1995	48,577,883.48	90.00	539,753.49	64.21	34,659,879.95
1996	40,850,908.03	90.00	453,898.33	65.02	29,513,309.05
1997	36,130,254.51	90.00	401,446.70	65.83	26,428,579.81
1998	89,881,875.15	90.00	998,686.07	66.65	66,561,165.87
1999	54,492,900.30	90.00	605,475.80	67.47	40,850,227.65
2000	57,306,442.61	90.00	636,737.34	68.29	43,483,443.17
2001	63,718,962.49	90.00	707,987.46	69.12	48,934,564.03
2002	65,647,785.05	90.00	729,418.79	69.95	51,021,661.13
2003	23,971,412.37	90.00	266,348.65	70.78	18,853,483.11
2004	64,283,371.57	90.00	714,258.66	71.62	51,157,530.71
2005	59,881,119.63	90.00	665,344.82	72.47	48,214,290.37
2006	14,336,279.03	90.00	159,291.76	73.31	11,677,764.46
2007	76,339,854.23	90.00	848,219.39	74.16	62,903,482.15
2008	95,341,252.49	90.00	1,059,345.74	75.01	79,463,454.54

PAWC - Water Operations
Water Operations
331.00 Mains and Accessories

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: ***90*** ***Survivor Curve:*** ***R2***

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2009	89,645,821.33	90.00	996,063.26	75.87	75,568,970.58
2010	93,560,820.44	90.00	1,039,563.18	76.73	79,762,377.17
2011	115,190,271.60	90.00	1,279,890.08	77.59	99,305,827.47
2012	107,056,726.20	90.00	1,189,517.48	78.46	93,326,244.95
2013	142,776,190.70	90.00	1,586,399.85	79.33	125,843,806.04
2014	131,583,868.40	90.00	1,462,040.89	80.20	117,254,651.27
2015	165,061,150.00	90.00	1,834,010.16	81.08	148,692,542.63
2016	173,817,662.70	90.00	1,931,304.60	81.95	158,278,121.53
2017	117,354,754.60	90.00	1,303,939.85	82.84	108,013,132.62
2018	152,477,697.10	90.00	1,694,194.21	83.72	141,839,588.73
2019	163,473,289.50	90.00	1,816,367.29	84.61	153,680,997.29
2020	178,779,638.00	90.00	1,986,437.58	85.50	169,840,248.78
2021	127,599,506.90	90.00	1,417,770.27	86.40	122,488,994.02
2022	194,821,523.40	90.00	2,164,680.50	87.29	188,960,403.70
2023	252,569,311.50	90.00	2,806,321.67	88.19	247,496,008.64
2024	232,690,433.20	90.00	2,585,445.56	89.09	230,349,934.53
2025	150,467,541.30	90.00	1,671,859.18	89.77	150,089,172.93
Total	3,866,555,790.87	90.00	42,961,669.57	77.25	3,318,770,227.60

Composite Average Remaining Life ... 77.25 Years

PAWC - Water Operations
Water Operations
333.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 65 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1937	2,197.91	65.00	33.81	7.99	270.29
1939	4,614.27	65.00	70.99	8.48	602.13
1940	25,510.43	65.00	392.47	8.74	3,428.66
1941	43,545.66	65.00	669.93	8.99	6,020.92
1942	33,596.22	65.00	516.86	9.25	4,781.76
1943	22,143.02	65.00	340.66	9.51	3,241.03
1944	13,571.14	65.00	208.79	9.79	2,044.09
1945	25,239.97	65.00	388.31	10.07	3,909.04
1946	94,612.38	65.00	1,455.57	10.36	15,076.89
1947	188,652.71	65.00	2,902.34	10.65	30,914.71
1948	254,267.01	65.00	3,911.79	10.96	42,861.11
1949	267,214.36	65.00	4,110.98	11.27	46,346.10
1950	301,313.09	65.00	4,635.58	11.60	53,770.30
1951	393,476.96	65.00	6,053.48	11.94	72,263.74
1952	482,101.08	65.00	7,416.93	12.29	91,124.93
1953	399,050.95	65.00	6,139.24	12.65	77,644.24
1954	393,989.75	65.00	6,061.37	13.02	78,921.24
1955	581,927.88	65.00	8,952.72	13.41	120,020.21
1956	702,014.13	65.00	10,800.20	13.81	149,098.46
1957	672,668.87	65.00	10,348.73	14.22	147,120.97
1958	792,439.11	65.00	12,191.35	14.64	178,510.58
1959	973,698.31	65.00	14,979.95	15.08	225,893.37
1960	986,814.37	65.00	15,181.73	15.53	235,820.21
1961	895,168.44	65.00	13,771.80	16.00	220,339.81
1962	952,105.96	65.00	14,647.76	16.48	241,359.20
1963	780,915.42	65.00	12,014.06	16.97	203,888.36
1964	705,469.97	65.00	10,853.37	17.48	189,665.47

PAWC - Water Operations
Water Operations
333.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 65 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1965	1,047,754.25	65.00	16,119.27	18.00	290,068.32
1966	1,041,922.55	65.00	16,029.55	18.53	296,951.26
1967	1,086,446.48	65.00	16,714.53	19.07	318,762.37
1968	1,240,282.73	65.00	19,081.24	19.63	374,486.59
1969	1,340,952.58	65.00	20,630.01	20.20	416,655.03
1970	1,451,436.65	65.00	22,329.76	20.78	463,908.12
1971	1,681,872.78	65.00	25,874.92	21.37	552,942.18
1972	1,805,679.23	65.00	27,779.63	21.97	610,356.13
1973	2,371,180.92	65.00	36,479.65	22.59	824,020.04
1974	1,361,419.12	65.00	20,944.87	23.21	486,234.51
1975	816,169.78	65.00	12,556.44	23.85	299,472.87
1976	1,053,995.23	65.00	16,215.28	24.50	397,234.60
1977	1,470,741.22	65.00	22,626.75	25.15	569,123.28
1978	2,015,631.72	65.00	31,009.67	25.82	800,666.18
1979	3,070,369.11	65.00	47,236.37	26.49	1,251,477.92
1980	2,783,786.39	65.00	42,827.41	27.18	1,164,047.57
1981	2,684,129.72	65.00	41,294.23	27.87	1,150,953.23
1982	2,651,750.66	65.00	40,796.10	28.58	1,165,785.62
1983	2,979,576.38	65.00	45,839.56	29.29	1,342,416.70
1984	3,504,968.00	65.00	53,922.50	30.01	1,618,002.75
1985	3,827,505.43	65.00	58,884.60	30.73	1,809,623.69
1986	4,630,209.65	65.00	71,233.88	31.47	2,241,659.95
1987	6,508,748.72	65.00	100,134.43	32.21	3,225,633.66
1988	7,177,449.83	65.00	110,422.12	32.96	3,639,883.49
1989	7,630,698.72	65.00	117,395.17	33.72	3,958,896.92
1990	8,551,719.51	65.00	131,564.70	34.49	4,537,405.20
1991	6,270,766.05	65.00	96,473.16	35.26	3,401,874.32

PAWC - Water Operations
Water Operations
333.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 65 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1992	6,565,259.16	65.00	101,003.82	36.04	3,640,375.05
1993	9,739,876.01	65.00	149,844.00	36.83	5,518,863.23
1994	7,793,673.62	65.00	119,902.47	37.62	4,511,231.82
1995	10,800,866.82	65.00	166,166.91	38.43	6,385,270.22
1996	11,356,094.55	65.00	174,708.86	39.23	6,854,480.45
1997	10,739,826.28	65.00	165,227.82	40.05	6,617,342.12
1998	46,555,264.06	65.00	716,233.64	40.87	29,272,210.16
1999	14,034,691.60	65.00	215,917.97	41.70	9,003,483.59
2000	14,044,238.68	65.00	216,064.85	42.53	9,189,872.33
2001	16,449,277.53	65.00	253,065.39	43.37	10,976,022.52
2002	30,086,206.71	65.00	462,863.95	44.22	20,467,265.24
2003	3,399,497.48	65.00	52,299.87	45.07	2,357,143.86
2004	2,343,606.92	65.00	36,055.43	45.93	1,655,949.47
2005	18,973,711.79	65.00	291,902.77	46.79	13,658,150.73
2006	85,031.35	65.00	1,308.17	47.66	62,346.49
2007	11,932,205.58	65.00	183,572.09	48.53	8,909,131.14
2008	24,955,185.60	65.00	383,925.30	49.41	18,970,403.59
2009	22,315,576.78	65.00	343,316.00	50.29	17,266,944.65
2010	17,834,067.59	65.00	274,369.82	51.18	14,043,389.32
2011	18,577,474.01	65.00	285,806.82	52.08	14,883,845.40
2012	21,614,524.26	65.00	332,530.59	52.98	17,615,960.05
2013	22,406,855.19	65.00	344,720.28	53.88	18,572,890.36
2014	20,562,215.34	65.00	316,341.25	54.78	17,330,570.49
2015	21,443,363.69	65.00	329,897.36	55.70	18,373,822.31
2016	27,841,588.14	65.00	428,331.42	56.61	24,247,798.04
2017	25,527,905.44	65.00	392,736.36	57.53	22,593,708.65
2018	23,849,069.39	65.00	366,908.15	58.45	21,446,070.82

PAWC - Water Operations
Water Operations
333.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2019	26,310,291.14	65.00	404,773.04	59.38	24,034,268.19
2020	33,464,941.93	65.00	514,844.41	60.31	31,048,189.27
2021	30,326,971.98	65.00	466,568.03	61.24	28,572,208.96
2022	40,822,800.13	65.00	628,042.04	62.17	39,048,115.84
2023	50,698,456.27	65.00	779,974.96	63.11	49,227,149.52
2024	59,523,709.48	65.00	915,747.86	64.05	58,658,212.80
2025	27,169,829.45	65.00	417,996.68	64.76	27,071,085.65
Total	823,189,636.73	65.00	12,664,434.96	50.67	641,737,252.62

Composite Average Remaining Life ... 50.67 Years

PAWC - Water Operations
Water Operations
334.00 Meters and Installations

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *L1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1987	205,724.82	20.00	10,285.84	4.30	44,262.60
1989	9,622.00	20.00	481.08	4.70	2,262.22
1990	36,986.00	20.00	1,849.23	4.91	9,079.71
1991	695,536.05	20.00	34,775.45	5.12	178,160.21
1992	217,731.23	20.00	10,886.14	5.34	58,153.43
1993	238,158.24	20.00	11,907.45	5.57	66,282.74
1994	201,152.93	20.00	10,057.26	5.80	58,299.14
1995	128,993.29	20.00	6,449.41	6.03	38,906.35
1996	46,067.04	20.00	2,303.26	6.27	14,449.92
1997	1,089,804.62	20.00	54,488.12	6.52	355,247.61
1998	10,197,811.77	20.00	509,870.81	6.77	3,451,887.22
1999	1,407,056.30	20.00	70,350.09	7.02	494,151.64
2000	1,163,027.70	20.00	58,149.13	7.28	423,392.45
2001	3,092,176.59	20.00	154,602.83	7.54	1,165,755.42
2002	1,495,590.27	20.00	74,776.61	7.80	583,343.69
2003	53,683.22	20.00	2,684.06	8.06	21,642.61
2004	20,918.28	20.00	1,045.87	8.33	8,709.29
2005	2,325,249.66	20.00	116,257.97	8.59	999,086.42
2006	43,732.42	20.00	2,186.54	8.86	19,382.07
2007	3,091,586.22	20.00	154,573.31	9.14	1,413,036.65
2008	1,461,412.71	20.00	73,067.80	9.43	688,947.20
2009	3,749,065.09	20.00	187,445.98	9.73	1,823,962.36
2010	7,432,653.99	20.00	371,618.28	10.05	3,735,429.53
2011	12,681,090.84	20.00	634,029.95	10.40	6,592,701.32
2012	11,091,399.19	20.00	554,548.45	10.78	5,975,508.29
2013	8,835,262.69	20.00	441,746.00	11.19	4,942,979.64
2014	6,345,522.51	20.00	317,263.82	11.65	3,695,078.94

PAWC - Water Operations
Water Operations
334.00 Meters and Installations

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *L1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2015	12,063,014.16	20.00	603,127.31	12.15	7,330,997.09
2016	14,422,475.40	20.00	721,095.80	12.72	9,172,669.78
2017	15,230,996.80	20.00	761,520.30	13.34	10,162,244.15
2018	12,444,057.76	20.00	622,178.75	14.02	8,725,418.16
2019	16,703,376.19	20.00	835,136.41	14.75	12,319,144.65
2020	9,592,554.94	20.00	479,609.14	15.52	7,444,661.87
2021	6,503,137.80	20.00	325,144.28	16.34	5,312,423.78
2022	20,233,233.18	20.00	1,011,622.42	17.20	17,399,104.59
2023	35,843,404.55	20.00	1,792,100.71	18.10	32,438,465.04
2024	39,545,065.80	20.00	1,977,176.59	19.04	37,640,685.46
2025	18,090,860.22	20.00	904,507.92	19.76	17,871,432.99
Total	278,029,192.47	20.00	13,900,920.37	14.58	202,677,346.22

Composite Average Remaining Life ... 14.58 Years

PAWC - Water Operations
Water Operations
335.00 Fire Hydrants

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 60 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1901	98.72	0.00	0.00	0.00	0.00
1902	40.23	0.00	0.00	0.00	0.00
1903	45.56	0.00	0.00	0.00	0.00
1904	158.32	0.00	0.00	0.00	0.00
1905	84.22	0.00	0.00	0.00	0.00
1906	481.68	0.00	0.00	0.00	0.00
1907	298.16	0.00	0.00	0.00	0.00
1908	581.08	0.00	0.00	0.00	0.00
1909	990.21	0.00	0.00	0.00	0.00
1910	1,025.36	0.00	0.00	0.00	0.00
1911	623.13	0.00	0.00	0.00	0.00
1912	2,257.66	0.00	0.00	0.00	0.00
1913	937.10	0.00	0.00	0.00	0.00
1914	1,325.60	60.00	22.09	0.50	11.05
1915	1,674.16	60.00	27.90	0.53	14.79
1916	1,194.75	60.00	19.91	0.76	15.14
1917	1,876.84	60.00	31.28	0.93	29.12
1918	1,577.89	60.00	26.30	1.17	30.88
1919	2,851.83	60.00	47.53	1.45	69.14
1920	1,861.40	60.00	31.02	1.69	52.43
1921	1,972.68	60.00	32.88	1.95	64.09
1922	2,348.44	60.00	39.14	2.23	87.44
1923	3,800.53	60.00	63.34	2.49	157.83
1924	3,471.65	60.00	57.86	2.76	159.86
1925	4,938.45	60.00	82.31	3.05	251.24
1926	3,874.12	60.00	64.57	3.32	214.60
1927	4,590.73	60.00	76.51	3.60	275.70

PAWC - Water Operations
Water Operations
335.00 Fire Hydrants

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 60 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1928	3,161.98	60.00	52.70	3.90	205.37
1929	5,262.51	60.00	87.71	4.18	366.30
1930	4,216.06	60.00	70.27	4.46	313.49
1931	4,047.14	60.00	67.45	4.76	320.87
1932	2,612.90	60.00	43.55	5.04	219.51
1933	1,941.83	60.00	32.36	5.33	172.44
1934	2,342.75	60.00	39.05	5.62	219.61
1935	4,141.11	60.00	69.02	5.91	407.93
1936	5,438.85	60.00	90.65	6.20	561.99
1937	6,702.81	60.00	111.71	6.50	725.76
1938	5,720.24	60.00	95.34	6.79	646.90
1939	8,621.47	60.00	143.69	7.08	1,017.01
1940	4,869.01	60.00	81.15	7.38	598.70
1941	5,154.70	60.00	85.91	7.67	659.12
1942	1,733.22	60.00	28.89	7.97	230.25
1943	1,780.31	60.00	29.67	8.28	245.61
1944	1,697.53	60.00	28.29	8.58	242.79
1945	721.75	60.00	12.03	8.89	106.96
1946	2,441.77	60.00	40.70	9.21	374.79
1947	10,081.53	60.00	168.03	9.53	1,600.92
1948	7,815.31	60.00	130.25	9.85	1,283.42
1949	22,565.12	60.00	376.08	10.19	3,831.17
1950	4,986.12	60.00	83.10	10.52	874.58
1951	27,919.63	60.00	465.33	10.87	5,057.71
1952	23,110.91	60.00	385.18	11.22	4,322.91
1953	17,334.22	60.00	288.90	11.58	3,346.28
1954	26,512.99	60.00	441.88	11.95	5,280.90

PAWC - Water Operations
Water Operations
335.00 Fire Hydrants

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 60 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1955	22,209.80	60.00	370.16	12.33	4,563.42
1956	36,475.89	60.00	607.93	12.71	7,728.71
1957	51,913.21	60.00	865.22	13.11	11,340.68
1958	62,204.77	60.00	1,036.74	13.51	14,006.91
1959	79,534.91	60.00	1,325.58	13.92	18,456.04
1960	80,001.55	60.00	1,333.36	14.35	19,127.01
1961	76,758.70	60.00	1,279.31	14.78	18,902.99
1962	57,149.04	60.00	952.48	15.22	14,494.30
1963	85,378.71	60.00	1,422.97	15.67	22,295.94
1964	71,010.24	60.00	1,183.50	16.13	19,087.97
1965	105,397.01	60.00	1,756.61	16.60	29,159.08
1966	107,657.38	60.00	1,794.28	17.08	30,647.28
1967	134,556.35	60.00	2,242.60	17.57	39,402.21
1968	131,158.78	60.00	2,185.97	18.07	39,502.95
1969	128,543.00	60.00	2,142.38	18.58	39,809.44
1970	124,014.73	60.00	2,066.91	19.10	39,479.76
1971	163,654.40	60.00	2,727.57	19.63	53,547.47
1972	172,512.52	60.00	2,875.20	20.17	57,999.70
1973	229,806.15	60.00	3,830.09	20.72	79,362.26
1974	310,947.65	60.00	5,182.45	21.28	110,288.22
1975	307,853.02	60.00	5,130.87	21.85	112,112.59
1976	205,396.73	60.00	3,423.27	22.43	76,775.82
1977	299,722.85	60.00	4,995.37	23.02	114,976.16
1978	460,000.09	60.00	7,666.65	23.61	181,042.22
1979	532,498.55	60.00	8,874.95	24.22	214,943.76
1980	458,704.89	60.00	7,645.06	24.84	189,870.06
1981	271,561.47	60.00	4,526.01	25.46	115,234.81

PAWC - Water Operations
Water Operations
335.00 Fire Hydrants

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 60 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1982	427,675.02	60.00	7,127.90	26.09	185,983.26
1983	561,052.95	60.00	9,350.86	26.74	249,997.77
1984	556,745.96	60.00	9,279.07	27.39	254,119.44
1985	592,669.35	60.00	9,877.80	28.04	277,010.90
1986	765,675.43	60.00	12,761.22	28.71	366,401.47
1987	836,826.42	60.00	13,947.07	29.39	409,877.41
1988	890,464.87	60.00	14,841.04	30.07	446,273.11
1989	1,109,700.09	60.00	18,494.95	30.76	568,954.10
1990	1,171,883.50	60.00	19,531.34	31.46	614,503.56
1991	981,212.21	60.00	16,353.49	32.17	526,060.51
1992	1,345,462.07	60.00	22,424.31	32.88	737,391.55
1993	1,184,551.32	60.00	19,742.47	33.61	663,466.10
1994	1,563,970.67	60.00	26,066.11	34.33	894,955.57
1995	1,703,769.13	60.00	28,396.07	35.07	995,893.60
1996	1,614,443.49	60.00	26,907.32	35.82	963,701.52
1997	1,744,693.79	60.00	29,078.15	36.56	1,063,242.08
1998	1,616,549.49	60.00	26,942.42	37.32	1,005,580.97
1999	2,077,308.87	60.00	34,621.72	38.09	1,318,672.09
2000	1,252,514.84	60.00	20,875.19	38.86	811,162.96
2001	1,713,564.24	60.00	28,559.33	39.64	1,131,978.23
2002	1,598,772.60	60.00	26,646.14	40.42	1,077,045.30
2003	2,141,303.67	60.00	35,688.30	41.21	1,470,695.81
2004	2,202,389.33	60.00	36,706.39	42.01	1,541,915.39
2005	207,229.55	60.00	3,453.82	42.81	147,856.92
2006	5,677,378.69	60.00	94,622.72	43.62	4,127,193.67
2007	3,180,321.44	60.00	53,005.21	44.43	2,355,164.56
2008	4,264,328.78	60.00	71,071.95	45.25	3,216,254.35

PAWC - Water Operations
Water Operations
335.00 Fire Hydrants

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *60* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2009	4,636,487.21	60.00	77,274.58	46.08	3,560,714.59
2010	4,234,532.40	60.00	70,575.35	46.91	3,310,778.59
2011	3,530,141.06	60.00	58,835.52	47.75	2,809,336.63
2012	4,631,038.43	60.00	77,183.76	48.59	3,750,431.23
2013	5,226,134.49	60.00	87,102.00	49.44	4,306,304.18
2014	4,639,834.24	60.00	77,330.36	50.29	3,889,218.56
2015	7,710,209.89	60.00	128,503.15	51.15	6,573,108.09
2016	7,730,712.84	60.00	128,844.86	52.02	6,701,945.29
2017	6,037,975.73	60.00	100,632.65	52.88	5,321,912.58
2018	5,480,713.71	60.00	91,344.98	53.76	4,910,458.08
2019	7,212,456.83	60.00	120,207.29	54.64	6,567,657.70
2020	7,559,288.66	60.00	125,987.80	55.52	6,994,754.01
2021	7,719,413.89	60.00	128,656.55	56.41	7,257,011.71
2022	11,021,495.38	60.00	183,691.09	57.30	10,525,230.40
2023	13,912,897.23	60.00	231,880.99	58.20	13,494,333.90
2024	13,795,218.63	60.00	229,919.68	59.09	13,587,103.07
2025	6,343,632.32	60.00	105,726.92	59.77	6,319,703.23
Total	169,429,177.37	53.76	2,823,684.89	49.23	139,010,178.42

Composite Average Remaining Life ... 49.23 Years

PAWC - Water Operations
Water Operations
341.00 Transportation - Not Classified

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *10* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1986	349.00	0.00	0.00	0.00	0.00
2020	2,238.67	10.00	223.86	5.70	1,275.84
2025	36,010.43	10.00	3,601.00	9.75	35,110.55
Total	38,598.10	6.67	3,824.86	9.51	36,386.39

Composite Average Remaining Life ... 9.51 Years

PAWC - Water Operations
Water Operations
341.10 Transportation - Light Trucks

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *10* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2011	13,156.44	10.00	1,315.63	2.93	3,849.65
2012	1,053,914.96	10.00	105,390.22	3.18	334,745.91
2013	4,251,864.62	10.00	425,181.32	3.43	1,456,369.43
2014	33,079.26	10.00	3,307.89	3.67	12,136.25
2015	685,160.14	10.00	68,515.19	3.91	267,739.02
2016	1,224,342.56	10.00	122,432.78	4.15	508,261.16
2017	26,230.86	10.00	2,623.05	4.42	11,593.48
2018	2,042,645.52	10.00	204,262.08	4.74	968,826.12
2019	9,569,988.39	10.00	956,987.26	5.16	4,935,609.69
2020	8,395,547.43	10.00	839,544.59	5.70	4,784,699.19
2021	10,800,582.16	10.00	1,080,045.15	6.39	6,898,119.37
2022	9,759,732.47	10.00	975,961.44	7.19	7,019,407.33
2023	16,580,311.08	10.00	1,658,011.05	8.07	13,378,064.13
2024	10,310,190.14	10.00	1,031,006.54	9.01	9,289,822.13
2025	2,055,523.01	10.00	205,549.81	9.75	2,004,156.67
Total	76,802,269.04	10.00	7,680,134.00	6.75	51,873,399.53

Composite Average Remaining Life ... 6.75 Years

PAWC - Water Operations
Water Operations
341.20 Transportation - Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 10 **Survivor Curve:** L2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2000	58,209.00	10.00	5,820.83	0.73	4,241.96
2011	4,000.00	10.00	400.00	2.93	1,170.42
2012	90,370.79	10.00	9,036.97	3.18	28,703.69
2013	2,819,782.74	10.00	281,974.86	3.43	965,845.75
2014	411,274.47	10.00	41,126.95	3.67	150,889.97
2016	2,478,954.18	10.00	247,892.42	4.15	1,029,087.91
2017	2,326,634.81	10.00	232,660.67	4.42	1,028,322.74
2018	5,865,427.39	10.00	586,535.64	4.74	2,781,970.35
2019	8,314.30	10.00	831.42	5.16	4,288.00
2020	811,487.16	10.00	81,147.73	5.70	462,473.95
2021	229,580.55	10.00	22,957.78	6.39	146,628.58
2022	172,600.00	10.00	17,259.79	7.19	124,137.59
Total	15,276,635.39	10.00	1,527,645.06	4.40	6,727,760.93

Composite Average Remaining Life ... 4.40 Years

PAWC - Water Operations
Water Operations
341.40 Transportation - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *10* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1961	374.92	0.00	0.00	0.00	0.00
1977	403.11	0.00	0.00	0.00	0.00
1978	265.00	0.00	0.00	0.00	0.00
1998	8,060.31	10.00	806.02	0.51	408.77
1999	1,561.47	10.00	156.15	0.60	93.17
2006	4,626.70	10.00	462.66	1.79	828.62
2007	18,169.65	10.00	1,816.94	2.00	3,630.96
2008	92,592.34	10.00	9,259.12	2.22	20,512.75
2009	25,526.94	10.00	2,552.66	2.44	6,235.49
2010	50,483.13	10.00	5,048.25	2.68	13,530.58
2011	75,022.83	10.00	7,502.19	2.93	21,952.12
2012	318,512.86	10.00	31,850.90	3.18	101,166.49
2013	836,648.69	10.00	83,663.86	3.43	286,572.99
2014	718,980.22	10.00	71,897.15	3.67	263,782.24
2015	178,690.77	10.00	17,868.86	3.91	69,826.73
2016	954,565.45	10.00	95,455.39	4.15	396,268.63
2017	120,461.68	10.00	12,046.02	4.42	53,241.48
2018	2,510,965.54	10.00	251,093.52	4.74	1,190,950.16
2019	787,130.82	10.00	78,712.13	5.16	405,953.52
2020	473,035.57	10.00	47,302.98	5.70	269,587.29
2021	78,210.92	10.00	7,821.00	6.39	49,951.78
2022	47,744.96	10.00	4,774.44	7.19	34,339.19
2023	129,695.53	10.00	12,969.40	8.07	104,646.72
2024	211,053.00	10.00	21,105.04	9.01	190,165.73

PAWC - Water Operations
Water Operations
341.40 Transportation - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *10* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	7,642,782.41	8.75	764,164.69	4.56	3,483,645.42

Composite Average Remaining Life ... 4.56 Years

PAWC - Water Operations
Water Operations
345.00 Power Operated Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 21 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1951	29.64	0.00	0.00	0.00	0.00
1967	1,931.23	0.00	0.00	0.00	0.00
1968	1,032.10	0.00	0.00	0.00	0.00
1969	817.92	0.00	0.00	0.00	0.00
1970	6,734.16	0.00	0.00	0.00	0.00
1972	6,321.41	0.00	0.00	0.00	0.00
1975	281.75	0.00	0.00	0.00	0.00
1977	596.25	0.00	0.00	0.00	0.00
1978	1,790.00	0.00	0.00	0.00	0.00
1980	7,445.82	0.00	0.00	0.00	0.00
1982	2,452.73	0.00	0.00	0.00	0.00
1984	1,722.07	21.00	82.00	0.50	41.00
1985	16,792.81	21.00	799.65	0.78	627.04
1986	14,013.50	21.00	667.30	1.11	738.09
1987	4,748.59	21.00	226.12	1.43	323.46
1988	10,221.10	21.00	486.71	1.76	855.97
1989	13,115.87	21.00	624.56	2.09	1,304.40
1990	9,498.15	21.00	452.29	2.42	1,094.95
1991	12,096.57	21.00	576.02	2.75	1,585.76
1992	18,034.45	21.00	858.78	3.09	2,651.97
1993	77,817.09	21.00	3,705.54	3.43	12,697.87
1994	142,750.50	21.00	6,797.58	3.77	25,627.59
1995	148,235.10	21.00	7,058.75	4.12	29,058.47
1996	79,553.28	21.00	3,788.22	4.47	16,928.26
1997	41,095.55	21.00	1,956.91	4.83	9,445.30
1998	55,083.04	21.00	2,622.98	5.19	13,617.38
1999	255,047.45	21.00	12,145.01	5.56	67,560.99

PAWC - Water Operations
Water Operations
345.00 Power Operated Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *21* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2001	45,944.17	21.00	2,187.80	6.33	13,848.48
2002	104,174.99	21.00	4,960.67	6.73	33,370.76
2003	170,236.10	21.00	8,106.41	7.13	57,830.82
2004	19,131.90	21.00	911.03	7.55	6,879.88
2005	33,181.89	21.00	1,580.08	7.98	12,610.87
2006	13,570.69	21.00	646.22	8.42	5,443.23
2007	5,629.80	21.00	268.08	8.88	2,380.22
2008	47,316.03	21.00	2,253.12	9.35	21,064.20
2009	85,341.82	21.00	4,063.86	9.83	39,967.36
2010	16,615.93	21.00	791.23	10.34	8,179.44
2011	34,410.00	21.00	1,638.56	10.86	17,792.01
2012	21,347.57	21.00	1,016.54	11.40	11,587.63
2013	21,465.79	21.00	1,022.17	11.96	12,226.00
2014	100,707.30	21.00	4,795.54	12.55	60,160.51
2015	52,293.85	21.00	2,490.16	13.15	32,753.13
2016	126,868.88	21.00	6,041.32	13.79	83,296.23
2017	26,612.95	21.00	1,267.27	14.45	18,312.40
2018	292,687.82	21.00	13,937.39	15.14	211,045.91
2019	13,003.54	21.00	619.21	15.87	9,824.07
2022	53,275.45	21.00	2,536.90	18.25	46,295.06
2024	2,433.40	21.00	115.88	20.03	2,321.54
2025	805,604.26	21.00	38,361.76	20.75	796,137.85
Total	3,021,112.26	16.29	142,459.61	11.85	1,687,486.14

Composite Average Remaining Life ... 11.85 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.20 Structures - Collection

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *45* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2007	5,708.78	45.00	126.86	28.05	3,558.14
2008	111,043.49	45.00	2,467.63	28.93	71,383.61
2009	135,657.72	45.00	3,014.61	29.82	89,889.19
2011	8,586.64	45.00	190.81	31.63	6,034.62
2013	101,201.33	45.00	2,248.92	33.46	75,259.42
2014	14,766.25	45.00	328.14	34.40	11,286.80
2015	30,621.01	45.00	680.47	35.33	24,043.82
2016	36,654.91	45.00	814.55	36.28	29,550.88
2017	197,636.56	45.00	4,391.92	37.23	163,506.63
2018	175,916.86	45.00	3,909.26	38.18	149,274.57
2019	266,260.20	45.00	5,916.89	39.15	231,626.65
2020	433,651.15	45.00	9,636.69	40.11	386,553.04
2021	572,059.14	45.00	12,712.42	41.08	522,263.16
2022	3,395,178.47	45.00	75,448.37	42.06	3,173,138.76
2023	2,433,296.92	45.00	54,073.24	43.04	2,327,053.67
2024	3,352,915.67	45.00	74,509.20	44.02	3,279,612.82
2025	745,593.95	45.00	16,568.75	44.75	741,511.22
Total	12,016,749.05	45.00	267,038.74	42.26	11,285,546.99

Composite Average Remaining Life ... 42.26 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.30 Structures - SPP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1935	18,861.14	55.00	342.93	7.47	2,562.76
1958	63,683.83	55.00	1,157.89	16.68	19,309.71
1976	25,970.39	55.00	472.19	24.60	11,616.94
1978	11,146.44	55.00	202.66	25.54	5,175.58
1980	93,957.85	55.00	1,708.32	26.49	45,247.86
1982	12,204.98	55.00	221.91	27.45	6,091.38
1983	86,589.73	55.00	1,574.36	27.94	43,983.02
1984	22,251.97	55.00	404.58	28.43	11,501.29
1985	104,674.02	55.00	1,903.16	28.92	55,044.87
1986	109,744.95	55.00	1,995.36	29.42	58,707.81
1987	29,681.60	55.00	539.67	29.93	16,149.85
1988	220,522.99	55.00	4,009.51	30.43	122,023.75
1989	240,185.48	55.00	4,367.01	30.95	135,141.59
1990	195,083.34	55.00	3,546.97	31.46	111,596.75
1991	285,470.50	55.00	5,190.37	31.98	166,012.99
1992	76,045.29	55.00	1,382.64	32.51	44,952.51
1993	2,160,497.80	55.00	39,281.75	33.04	1,298,045.88
1994	40,624.78	55.00	738.63	33.58	24,804.97
1996	24,175.73	55.00	439.56	34.67	15,241.38
1997	207,995.69	55.00	3,781.74	35.23	133,230.04
1998	429,870.49	55.00	7,815.82	35.79	279,741.23
1999	351,573.23	55.00	6,392.24	36.36	232,421.48
2000	289,845.37	55.00	5,269.91	36.94	194,644.33
2001	179,000.00	55.00	3,254.54	37.52	122,097.82
2002	66,094.94	55.00	1,201.73	38.11	45,792.99
2003	271,071.10	55.00	4,928.56	38.70	190,753.21
2004	1,082,516.67	55.00	19,682.11	39.31	773,688.24

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.30 Structures - SPP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2005	428,604.11	55.00	7,792.80	39.92	311,113.22
2006	917,095.09	55.00	16,674.44	40.54	676,054.17
2007	516,608.48	55.00	9,392.87	41.18	386,768.77
2008	2,147,228.90	55.00	39,040.50	41.82	1,632,633.63
2009	2,915,918.08	55.00	53,016.66	42.47	2,251,684.54
2010	2,365,815.22	55.00	43,014.79	43.13	1,855,409.12
2011	298,754.41	55.00	5,431.89	43.81	237,962.59
2012	37,883.52	55.00	688.79	44.49	30,646.21
2013	181,693.78	55.00	3,303.52	45.19	149,293.18
2014	4,039,714.09	55.00	73,449.30	45.90	3,371,679.58
2015	1,545,002.12	55.00	28,090.93	46.63	1,309,929.52
2016	553,292.14	55.00	10,059.85	47.37	476,573.13
2017	463,399.48	55.00	8,425.44	48.13	405,510.02
2018	388,079.03	55.00	7,055.98	48.91	345,078.16
2019	1,004,042.79	55.00	18,255.31	49.70	907,310.27
2020	1,665,213.82	55.00	30,276.59	50.52	1,529,482.97
2021	987,136.34	55.00	17,947.92	51.36	921,720.38
2022	790,909.88	55.00	14,380.17	52.22	750,909.26
2023	435,502.41	55.00	7,918.22	53.11	420,504.52
2024	821,724.47	55.00	14,940.43	54.03	807,252.30
2025	2,477,582.27	55.00	45,046.92	54.76	2,466,555.50
Total	31,680,540.73	55.00	576,009.43	44.11	25,409,651.26

Composite Average Remaining Life ... 44.11 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1916	177,755.17	55.00	3,231.91	0.50	1,615.95
1932	602.40	55.00	10.95	6.33	69.28
1935	562,419.57	55.00	10,225.80	7.47	76,418.70
1946	484.94	55.00	8.82	11.77	103.80
1954	3,946,317.60	55.00	71,751.18	15.01	1,077,244.87
1957	135,742.23	55.00	2,468.04	16.26	40,126.13
1961	346,385.67	55.00	6,297.92	17.94	113,011.45
1963	1,566,657.10	55.00	28,484.65	18.80	535,516.78
1965	53,759.86	55.00	977.45	19.66	19,221.31
1967	23,995,715.53	55.00	436,285.43	20.54	8,960,766.39
1968	361,924.73	55.00	6,580.45	20.98	138,054.76
1969	221,599.62	55.00	4,029.08	21.42	86,313.99
1973	38,481.00	55.00	699.65	23.22	16,247.60
1975	419,410.21	55.00	7,625.63	24.14	184,077.44
1976	16,150.91	55.00	293.65	24.60	7,224.54
1978	20,306,005.32	55.00	369,199.84	25.54	9,428,606.97
1981	12,778,313.67	55.00	232,332.81	26.97	6,265,204.52
1984	693,417.71	55.00	12,607.59	28.43	358,404.08
1985	133,860.33	55.00	2,433.82	28.92	70,393.06
1986	385,741.04	55.00	7,013.47	29.42	206,351.28
1988	15,031,971.53	55.00	273,308.38	30.43	8,317,760.94
1989	7,342,590.93	55.00	133,501.56	30.95	4,131,346.53
1990	6,479,049.63	55.00	117,800.82	31.46	3,706,317.83
1991	34,903,905.07	55.00	634,616.02	31.98	20,298,075.66
1992	52,055,984.18	55.00	946,471.78	32.51	30,771,753.66
1993	354,817.39	55.00	6,451.22	33.04	213,177.38
1994	16,680.06	55.00	303.27	33.58	10,184.63

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 *Survivor Curve:* S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1995	124,581.42	55.00	2,265.12	34.12	77,296.50
1996	642,593.75	55.00	11,683.51	34.67	405,117.62
1997	274,432.07	55.00	4,989.67	35.23	175,785.35
1998	599,628.40	55.00	10,902.33	35.79	390,212.38
1999	230,360.60	55.00	4,188.37	36.36	152,289.05
2000	6,456,390.86	55.00	117,388.84	36.94	4,335,759.59
2001	2,266,355.22	55.00	41,206.43	37.52	1,545,905.18
2002	1,387,706.79	55.00	25,231.02	38.11	961,453.99
2003	1,983,806.66	55.00	36,069.19	38.70	1,396,008.20
2004	204,864.73	55.00	3,724.81	39.31	146,419.39
2005	814,250.99	55.00	14,804.55	39.92	591,044.85
2006	1,009,776.60	55.00	18,359.56	40.54	744,376.11
2007	46,539.86	55.00	846.18	41.18	34,842.95
2008	2,849,140.44	55.00	51,802.52	41.82	2,166,328.20
2009	17,686,455.46	55.00	321,571.69	42.47	13,657,557.33
2010	20,483,746.66	55.00	372,431.50	43.13	16,064,538.78
2011	16,053,015.59	55.00	291,872.81	43.81	12,786,479.58
2012	3,496,681.74	55.00	63,575.99	44.49	2,828,671.30
2013	231,088.74	55.00	4,201.61	45.19	189,879.77
2014	10,269,815.58	55.00	186,723.79	45.90	8,571,529.25
2015	149,213.17	55.00	2,712.96	46.63	126,510.34
2016	446,427.21	55.00	8,116.85	47.37	384,526.00
2017	990,597.57	55.00	18,010.85	48.13	866,848.70
2018	421,177.10	55.00	7,657.76	48.91	374,508.82
2019	208,842.04	55.00	3,797.13	49.70	188,721.57
2020	2,243,371.63	55.00	40,788.55	50.52	2,060,515.39
2021	2,311,174.12	55.00	42,021.32	51.36	2,158,016.28

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	7,852,783.99	55.00	142,777.79	52.22	7,455,625.94
2023	12,748,818.46	55.00	231,796.54	53.11	12,309,773.04
2025	1,588,339.04	55.00	28,878.87	54.76	1,581,269.95
Total	298,397,719.89	55.00	5,425,409.32	34.98	189,761,400.92

Composite Average Remaining Life ... 34.98 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.70 Structures - General

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1939	3,508.43	0.00	0.00	0.00	0.00
1972	450.26	35.00	12.86	4.83	62.07
1984	11,260.27	35.00	321.72	8.88	2,857.44
1993	16,941.89	35.00	484.05	12.53	6,065.91
1994	29,220.00	35.00	834.86	12.98	10,837.05
1997	5,855.00	35.00	167.29	14.39	2,407.93
2003	3,759.70	35.00	107.42	17.56	1,886.32
2007	1,139.15	35.00	32.55	19.98	650.28
2008	354,558.47	35.00	10,130.24	20.63	208,968.60
2009	44,533.93	35.00	1,272.40	21.30	27,099.60
2010	5,428.73	35.00	155.11	21.99	3,410.52
2011	7,105.08	35.00	203.00	22.70	4,608.03
2012	28,465.52	35.00	813.30	23.43	19,057.56
2013	25,257.86	35.00	721.65	24.19	17,455.13
2014	413,665.01	35.00	11,819.00	24.97	295,073.16
2015	1,021,769.08	35.00	29,193.40	25.77	752,204.96
2016	9,177.69	35.00	262.22	26.59	6,973.03
2017	131,543.68	35.00	3,758.39	27.44	103,138.71
2018	370,638.42	35.00	10,589.67	28.32	299,856.84
2019	84,483.65	35.00	2,413.82	29.21	70,515.07
2020	174,920.15	35.00	4,997.72	30.13	150,595.06
2021	645,467.93	35.00	18,441.94	31.07	573,060.40
2022	1,086,757.09	35.00	31,050.20	32.03	994,638.23
2023	772,927.17	35.00	22,083.63	33.01	729,000.85
2024	2,022,088.78	35.00	57,773.95	34.00	1,964,404.78
2025	600,402.69	35.00	17,154.36	34.75	596,113.02

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.70 Structures - General

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	7,871,325.63	33.65	224,794.73	30.43	6,840,940.52

Composite Average Remaining Life ... 30.43 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
355.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1980	4,620.49	35.00	132.01	8.64	1,140.82
1983	14,573.73	35.00	416.39	9.77	4,066.69
1987	19,246.40	35.00	549.90	11.34	6,234.83
1989	49,338.78	35.00	1,409.68	12.16	17,140.34
1990	7,692.28	35.00	219.78	12.58	2,764.69
1992	59,866.38	35.00	1,710.46	13.44	22,990.98
1993	260,597.74	35.00	7,445.63	13.88	103,372.60
1994	12,067.19	35.00	344.78	14.33	4,941.91
1997	30,447.00	35.00	869.91	15.74	13,689.29
1998	74,281.11	35.00	2,122.31	16.22	34,429.32
1999	54,144.46	35.00	1,546.98	16.72	25,863.47
2000	97,004.84	35.00	2,771.56	17.23	47,740.74
2001	38,477.83	35.00	1,099.36	17.74	19,504.93
2002	56,915.93	35.00	1,626.17	18.27	29,711.71
2005	68,295.28	35.00	1,951.29	19.93	38,892.14
2007	12,208.69	35.00	348.82	21.11	7,361.89
2008	1,263,581.59	35.00	36,102.23	21.71	783,880.51
2009	2,513,725.97	35.00	71,820.55	22.34	1,604,260.26
2010	20,681.36	35.00	590.89	22.98	13,577.17
2011	62,203.16	35.00	1,777.23	23.63	42,003.46
2012	81,422.26	35.00	2,326.34	24.31	56,549.93
2013	26,762.41	35.00	764.64	25.00	19,116.55
2014	609,411.88	35.00	17,411.72	25.71	447,686.72
2015	84,106.93	35.00	2,403.05	26.44	63,539.01
2016	10,498.31	35.00	299.95	27.19	8,156.31
2017	13,046.73	35.00	372.76	27.96	10,424.01
2018	4,307.88	35.00	123.08	28.76	3,539.59

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
355.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2019	9,195.02	35.00	262.71	29.57	7,769.56
2020	160,993.90	35.00	4,599.81	30.41	139,897.27
2021	241,827.33	35.00	6,909.33	31.28	216,104.96
2022	226,859.70	35.00	6,481.69	32.16	208,479.48
2023	90,971.14	35.00	2,599.17	33.08	85,979.90
2024	88,903.89	35.00	2,540.10	34.02	86,422.80
2025	764,953.95	35.00	21,855.77	34.75	759,514.78
Total	7,133,231.54	35.00	203,806.06	24.22	4,936,748.66

Composite Average Remaining Life ... 24.22 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
360.10 Collection Sewers - Force Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 75 *Survivor Curve:* R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1935	46,716.55	75.00	622.89	9.42	5,866.63
1957	7,035.53	75.00	93.81	18.73	1,756.82
1958	32,519.35	75.00	433.59	19.29	8,365.93
1965	13,337.78	75.00	177.84	23.56	4,190.33
1972	82,114.26	75.00	1,094.86	28.34	31,023.68
1973	125,694.50	75.00	1,675.93	29.06	48,697.02
1974	1,499,378.30	75.00	19,991.71	29.78	595,411.03
1975	849,779.52	75.00	11,330.39	30.52	345,764.72
1976	971,420.09	75.00	12,952.27	31.26	404,915.70
1977	458,850.00	75.00	6,118.00	32.01	195,852.93
1978	270,355.19	75.00	3,604.74	32.77	118,127.54
1979	73,749.33	75.00	983.32	33.54	32,979.54
1980	153,505.40	75.00	2,046.74	34.31	70,227.99
1981	160,944.25	75.00	2,145.92	35.09	75,305.15
1982	49,998.70	75.00	666.65	35.88	23,921.27
1983	192,381.70	75.00	2,565.09	36.68	94,082.13
1985	309,939.29	75.00	4,132.52	38.29	158,238.37
1986	64,235.29	75.00	856.47	39.11	33,493.83
1987	225,949.78	75.00	3,012.66	39.93	120,292.09
1988	489,155.66	75.00	6,522.08	40.76	265,842.37
1989	92,110.83	75.00	1,228.14	41.60	51,086.04
1990	94,085.10	75.00	1,254.47	42.44	53,236.79
1991	75,459.60	75.00	1,006.13	43.29	43,553.74
1992	34,682.29	75.00	462.43	44.14	20,413.16
1993	576,500.39	75.00	7,686.67	45.00	345,927.46
1994	285,026.01	75.00	3,800.35	45.87	174,331.36
1995	933,327.99	75.00	12,444.37	46.75	581,715.61

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
360.10 Collection Sewers - Force Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1996	132,298.94	75.00	1,763.99	47.62	84,006.99
1997	1,678,151.28	75.00	22,375.35	48.51	1,085,418.12
1998	657,034.87	75.00	8,760.46	49.40	432,761.30
1999	458,996.56	75.00	6,119.95	50.29	307,797.96
2000	601,164.36	75.00	8,015.52	51.20	410,366.16
2001	861,762.58	75.00	11,490.17	52.10	598,661.77
2002	1,674,484.05	75.00	22,326.45	53.01	1,183,579.04
2003	408,278.87	75.00	5,443.72	53.93	293,577.22
2004	2,396,210.04	75.00	31,949.47	54.85	1,752,422.76
2005	654,776.48	75.00	8,730.35	55.77	486,929.86
2006	1,953,601.16	75.00	26,048.01	56.71	1,477,053.81
2007	1,274,034.06	75.00	16,987.12	57.64	979,113.91
2008	4,687,439.33	75.00	62,499.19	58.58	3,660,951.70
2009	1,042,309.60	75.00	13,897.46	59.52	827,160.79
2010	745,082.25	75.00	9,934.43	60.46	600,678.09
2013	290,574.36	75.00	3,874.32	63.32	245,332.26
2014	4,343,442.41	75.00	57,912.56	64.28	3,722,702.19
2015	2,379,651.53	75.00	31,728.69	65.24	2,070,118.80
2016	3,118,973.50	75.00	41,586.31	66.21	2,753,401.55
2017	3,466,281.44	75.00	46,217.08	67.18	3,104,714.64
2018	1,042,138.86	75.00	13,895.18	68.15	946,925.25
2019	4,282,675.00	75.00	57,102.33	69.12	3,946,932.88
2020	2,057,226.33	75.00	27,429.68	70.10	1,922,686.22
2021	2,129,678.93	75.00	28,395.72	71.07	2,018,161.62
2022	1,466,943.23	75.00	19,559.24	72.05	1,409,278.07
2023	2,383,440.53	75.00	31,779.21	73.03	2,320,916.86
2024	3,195,837.37	75.00	42,611.16	74.02	3,153,895.90

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
360.10 Collection Sewers - Force Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2025	407,249.66	75.00	5,430.00	74.75	405,913.14
Total	57,957,990.26	75.00	772,773.17	59.66	46,106,078.08

Composite Average Remaining Life ... 59.66 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1912	381.14	80.00	4.76	8.73	41.60
1915	22,192.47	80.00	277.41	9.43	2,616.12
1916	906.43	80.00	11.33	9.67	109.56
1917	709.87	80.00	8.87	9.91	87.95
1919	791.90	80.00	9.90	10.41	103.02
1920	103,191.74	80.00	1,289.90	10.65	13,733.33
1921	601.36	80.00	7.52	10.90	81.95
1922	3,269.23	80.00	40.87	11.16	456.12
1924	874.80	80.00	10.93	11.69	127.78
1925	2,817.75	80.00	35.22	11.96	421.20
1926	32,323.10	80.00	404.04	12.24	4,944.60
1927	4,663.32	80.00	58.29	12.52	730.03
1928	7,135.70	80.00	89.20	12.81	1,142.50
1929	6,905.08	80.00	86.31	13.11	1,131.34
1930	213,189.80	80.00	2,664.87	13.41	35,745.77
1931	12,984.63	80.00	162.31	13.72	2,227.64
1932	24,015.69	80.00	300.20	14.05	4,216.72
1933	14,232.60	80.00	177.91	14.38	2,557.82
1934	3,907.37	80.00	48.84	14.72	718.81
1935	454,298.87	80.00	5,678.73	15.07	85,555.44
1936	350,354.72	80.00	4,379.43	15.42	67,544.97
1937	55,326.44	80.00	691.58	15.79	10,921.13
1938	50,807.56	80.00	635.09	16.17	10,269.38
1939	55,074.39	80.00	688.43	16.56	11,399.65
1940	18,414.47	80.00	230.18	16.96	3,903.45
1941	8,087.28	80.00	101.09	17.37	1,755.74
1942	32,564.04	80.00	407.05	17.79	7,240.65

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1943	2,181,156.84	80.00	27,264.44	18.22	496,780.93
1944	3,914.21	80.00	48.93	18.66	913.15
1945	38,587.38	80.00	482.34	19.12	9,220.55
1946	94,305.84	80.00	1,178.82	19.58	23,081.02
1947	23,247.89	80.00	290.60	20.06	5,828.46
1948	4,853.93	80.00	60.67	20.54	1,246.41
1949	2,909.04	80.00	36.36	21.04	765.05
1950	64,255.76	80.00	803.20	21.55	17,305.50
1951	9,357.18	80.00	116.96	22.06	2,580.55
1952	3,101.48	80.00	38.77	22.59	875.97
1953	419,902.85	80.00	5,248.78	23.13	121,422.42
1954	209,709.65	80.00	2,621.37	23.68	62,078.44
1955	85,900.80	80.00	1,073.76	24.24	26,031.53
1956	36,536.86	80.00	456.71	24.81	11,332.10
1957	892,236.07	80.00	11,152.94	25.39	283,181.53
1958	41,596.91	80.00	519.96	25.98	13,507.61
1961	44,879.38	80.00	560.99	27.80	15,595.80
1962	45,642.03	80.00	570.52	28.42	16,216.60
1963	30,105.33	80.00	376.32	29.06	10,935.55
1965	304,441.97	80.00	3,805.52	30.35	115,497.99
1966	21,235,026.73	80.00	265,437.65	31.01	8,230,401.60
1968	34,420.00	80.00	430.25	32.35	13,917.76
1969	397,497.97	80.00	4,968.72	33.03	164,109.01
1970	781,349.79	80.00	9,766.87	33.72	329,297.03
1971	7,126.07	80.00	89.08	34.41	3,065.39
1972	6,196,036.90	80.00	77,450.41	35.12	2,719,728.13
1974	111,769.14	80.00	1,397.11	36.54	51,050.86

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1975	3,750,319.71	80.00	46,878.96	37.26	1,746,809.24
1976	302,087.62	80.00	3,776.09	37.99	143,472.45
1977	180,737.22	80.00	2,259.21	38.73	87,500.84
1978	78,508.62	80.00	981.36	39.47	38,736.54
1979	97,458.75	80.00	1,218.23	40.22	49,001.15
1980	3,222,120.37	80.00	40,276.48	40.98	1,650,453.62
1982	19,290.42	80.00	241.13	42.51	10,249.30
1983	24,537,925.96	80.00	306,723.86	43.28	13,274,201.10
1984	2,803,725.57	80.00	35,046.55	44.06	1,544,121.04
1985	3,490,753.96	80.00	43,634.39	44.84	1,956,720.24
1986	1,042,054.14	80.00	13,025.67	45.63	594,404.21
1987	1,007,322.58	80.00	12,591.52	46.43	584,637.02
1988	2,979,493.48	80.00	37,243.64	47.23	1,759,112.76
1989	2,341,591.92	80.00	29,269.88	48.04	1,406,104.12
1990	6,027,373.24	80.00	75,342.11	48.85	3,680,545.07
1992	5,294,845.94	80.00	66,185.53	50.49	3,341,928.60
1993	6,431,347.35	80.00	80,391.79	51.32	4,125,797.93
1994	594,962.59	80.00	7,437.03	52.15	387,868.54
1995	10,247,152.67	80.00	128,089.32	52.99	6,787,868.97
1996	418,494.03	80.00	5,231.17	53.84	281,626.60
1997	3,289,601.02	80.00	41,119.98	54.68	2,248,595.36
1998	3,180,230.23	80.00	39,752.85	55.54	2,207,704.97
1999	2,454,391.07	80.00	30,679.87	56.39	1,730,104.24
2000	3,490,061.25	80.00	43,625.74	57.26	2,497,830.86
2001	1,794,466.87	80.00	22,430.82	58.12	1,303,719.02
2002	3,123,261.18	80.00	39,040.74	58.99	2,303,082.32
2003	2,136,820.89	80.00	26,710.24	59.87	1,599,031.17

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2004	1,184,085.08	80.00	14,801.05	60.75	899,113.56
2005	7,386,564.38	80.00	92,331.99	61.63	5,690,359.33
2006	1,889,659.07	80.00	23,620.72	62.52	1,476,669.70
2007	6,280,746.98	80.00	78,509.28	63.41	4,977,965.12
2008	8,397,869.95	80.00	104,973.30	64.30	6,750,029.48
2009	7,869,507.93	80.00	98,368.78	65.20	6,413,687.55
2010	5,165,965.20	80.00	64,574.52	66.10	4,268,501.94
2011	3,149,642.79	80.00	39,370.51	67.01	2,638,150.09
2012	2,047,343.10	80.00	25,591.77	67.92	1,738,117.89
2013	4,151,065.89	80.00	51,888.29	68.83	3,571,418.10
2014	12,107,039.88	80.00	151,337.89	69.74	10,554,905.06
2015	5,354,324.14	80.00	66,929.00	70.66	4,729,332.92
2016	5,949,427.37	80.00	74,367.79	71.58	5,323,596.40
2017	15,524,187.67	80.00	194,052.21	72.51	14,070,522.24
2018	2,824,536.12	80.00	35,306.68	73.44	2,592,777.83
2019	13,411,921.76	80.00	167,648.90	74.37	12,467,487.32
2020	3,501,934.46	80.00	43,774.15	75.30	3,296,164.24
2021	5,364,890.34	80.00	67,061.08	76.23	5,112,365.97
2022	4,640,588.41	80.00	58,007.31	77.17	4,476,540.35
2023	5,006,525.56	80.00	62,581.53	78.11	4,888,358.85
2024	9,636,478.10	80.00	120,455.89	79.06	9,522,685.86
2025	6,587,743.99	80.00	82,346.74	79.76	6,568,291.49
Total	266,548,336.57	80.00	3,331,851.88	57.74	192,384,019.78

Composite Average Remaining Life ... 57.74 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1912	8,561.86	0.00	0.00	0.00	0.00
1916	1,911.68	0.00	0.00	0.00	0.00
1917	11,474.98	0.00	0.00	0.00	0.00
1921	3,790.15	0.00	0.00	0.00	0.00
1924	2,735.16	0.00	0.00	0.00	0.00
1925	130,561.92	0.00	0.00	0.00	0.00
1926	133,622.37	0.00	0.00	0.00	0.00
1927	28,585.36	50.00	571.71	0.50	285.85
1928	19,749.81	50.00	395.00	0.65	256.02
1930	102,431.77	50.00	2,048.64	0.97	1,990.31
1931	67,628.80	50.00	1,352.58	1.14	1,548.14
1932	12,566.11	50.00	251.32	1.32	332.40
1933	3,626.04	50.00	72.52	1.50	109.14
1934	9,285.87	50.00	185.72	1.69	314.00
1935	60,686.52	50.00	1,213.73	1.88	2,281.38
1936	115,058.29	50.00	2,301.17	2.07	4,767.10
1937	66,205.54	50.00	1,324.11	2.27	3,001.04
1938	68,078.15	50.00	1,361.56	2.46	3,354.90
1939	95,169.22	50.00	1,903.38	2.66	5,071.32
1940	31,426.02	50.00	628.52	2.87	1,802.33
1941	5,580.70	50.00	111.61	3.07	343.06
1942	64,632.82	50.00	1,292.66	3.28	4,243.28
1943	2,181,478.24	50.00	43,629.57	3.49	152,466.50
1944	12,957.82	50.00	259.16	3.71	961.37
1945	11,217.09	50.00	224.34	3.93	881.16
1946	68,755.13	50.00	1,375.10	4.15	5,705.53
1947	54,472.68	50.00	1,089.45	4.37	4,765.17

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1948	10,708.15	50.00	214.16	4.60	985.60
1949	8,292.42	50.00	165.85	4.83	801.69
1950	46,927.54	50.00	938.55	5.07	4,757.84
1951	24,689.71	50.00	493.79	5.31	2,621.37
1952	12,799.58	50.00	255.99	5.55	1,421.23
1953	625,274.35	50.00	12,505.49	5.80	72,522.21
1954	300,399.77	50.00	6,008.00	6.05	36,353.41
1955	126,303.26	50.00	2,526.07	6.31	15,931.56
1956	70,764.47	50.00	1,415.29	6.57	9,294.88
1957	35,807.16	50.00	716.14	6.83	4,893.30
1958	55,429.01	50.00	1,108.58	7.10	7,874.42
1961	80,479.17	50.00	1,609.58	7.95	12,789.22
1962	48,649.72	50.00	972.99	8.24	8,015.26
1963	46,793.72	50.00	935.87	8.54	7,988.41
1965	61,883.30	50.00	1,237.67	9.15	11,325.56
1966	4,568,610.24	50.00	91,372.21	9.47	865,128.25
1968	35,388.05	50.00	707.76	10.12	7,165.57
1969	78,210.94	50.00	1,564.22	10.46	16,367.22
1970	147,368.99	50.00	2,947.38	10.81	31,862.92
1971	13,739.30	50.00	274.79	11.17	3,068.22
1972	1,038,848.07	50.00	20,776.96	11.53	239,549.24
1974	8,999.10	50.00	179.98	12.28	2,210.86
1975	599,973.89	50.00	11,999.48	12.68	152,093.81
1977	42,780.69	50.00	855.61	13.49	11,540.12
1979	34,431.77	50.00	688.64	14.34	9,876.88
1980	1,193,863.10	50.00	23,877.26	14.79	353,079.22
1983	809,610.51	50.00	16,192.21	16.19	262,217.15

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1984	134,019.84	50.00	2,680.40	16.69	44,732.47
1985	768,564.12	50.00	15,371.28	17.20	264,341.47
1986	205,518.24	50.00	4,110.37	17.72	72,833.71
1987	236,554.49	50.00	4,731.09	18.26	86,372.97
1988	295,673.19	50.00	5,913.46	18.81	111,222.54
1989	21,431.94	50.00	428.64	19.38	8,305.15
1990	1,674,480.37	50.00	33,489.61	19.96	668,409.53
1992	572,844.23	50.00	11,456.89	21.17	242,586.84
1993	358,744.07	50.00	7,174.88	21.81	156,460.75
1994	240,277.70	50.00	4,805.55	22.46	107,917.71
1995	2,835,618.70	50.00	56,712.38	23.12	1,311,450.60
1996	171,669.15	50.00	3,433.38	23.81	81,749.39
1997	1,036,369.93	50.00	20,727.40	24.51	508,106.92
1998	489,526.22	50.00	9,790.53	25.24	247,069.79
1999	595,485.58	50.00	11,909.71	25.98	309,363.44
2000	573,756.82	50.00	11,475.14	26.73	306,778.31
2001	379,456.45	50.00	7,589.13	27.51	208,783.66
2002	746,696.63	50.00	14,933.93	28.31	422,715.91
2003	628,255.02	50.00	12,565.10	29.12	365,876.72
2004	602,166.01	50.00	12,043.32	29.95	360,683.31
2005	2,284,646.16	50.00	45,692.93	30.80	1,407,174.97
2006	171,037.75	50.00	3,420.76	31.66	108,302.82
2007	2,053,375.92	50.00	41,067.52	32.54	1,336,365.26
2008	2,386,021.69	50.00	47,720.44	33.44	1,595,588.22
2009	238,824.56	50.00	4,776.49	34.35	164,053.86
2010	783,441.59	50.00	15,668.83	35.27	552,633.04
2011	1,314,648.76	50.00	26,292.98	36.21	951,952.21

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2012	96,983.02	50.00	1,939.66	37.15	72,064.21
2013	1,061,797.09	50.00	21,235.94	38.11	809,316.74
2014	2,194,357.17	50.00	43,887.15	39.08	1,714,999.72
2015	5,519,178.30	50.00	110,383.57	40.05	4,421,099.79
2016	283,133.88	50.00	5,662.68	41.03	232,359.29
2017	406,388.58	50.00	8,127.77	42.02	341,531.00
2018	185,761.31	50.00	3,715.23	43.01	159,796.97
2019	153,157.12	50.00	3,063.14	44.01	134,796.02
2020	686,921.50	50.00	13,738.43	45.00	618,264.92
2021	448,218.69	50.00	8,964.37	46.00	412,369.75
2022	1,007,196.35	50.00	20,143.93	47.00	946,769.83
2023	923,446.35	50.00	18,468.93	48.00	886,509.19
2024	1,617,240.56	50.00	32,344.81	49.00	1,584,895.94
2025	1,183,514.42	50.00	23,670.29	49.75	1,177,596.78
Total	51,065,675.55	46.32	1,015,460.42	27.44	27,860,417.12

Composite Average Remaining Life ... *27.44 Years*

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1912	20,295.76	0.00	0.00	0.00	0.00
1916	8,724.19	0.00	0.00	0.00	0.00
1917	29,533.87	0.00	0.00	0.00	0.00
1919	5,542.61	0.00	0.00	0.00	0.00
1921	367.78	0.00	0.00	0.00	0.00
1922	2,061.14	0.00	0.00	0.00	0.00
1924	10,576.28	0.00	0.00	0.00	0.00
1925	406,575.78	0.00	0.00	0.00	0.00
1926	275,896.64	0.00	0.00	0.00	0.00
1927	81,823.31	0.00	0.00	0.00	0.00
1928	31,303.91	0.00	0.00	0.00	0.00
1929	114.72	0.00	0.00	0.00	0.00
1930	177,907.55	0.00	0.00	0.00	0.00
1931	106,567.72	0.00	0.00	0.00	0.00
1932	47,485.32	0.00	0.00	0.00	0.00
1933	3,294.89	0.00	0.00	0.00	0.00
1934	12,506.52	0.00	0.00	0.00	0.00
1935	83,767.66	0.00	0.00	0.00	0.00
1936	171,427.07	0.00	0.00	0.00	0.00
1937	71,566.46	0.00	0.00	0.00	0.00
1938	75,863.59	0.00	0.00	0.00	0.00
1939	58,561.23	0.00	0.00	0.00	0.00
1940	20,471.70	0.00	0.00	0.00	0.00
1941	4,074.41	0.00	0.00	0.00	0.00
1942	47,804.75	0.00	0.00	0.00	0.00
1943	3,493,758.53	0.00	0.00	0.00	0.00
1944	15,414.58	0.00	0.00	0.00	0.00

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1945	12,444.98	0.00	0.00	0.00	0.00
1946	51,760.96	47.00	1,101.30	0.50	550.65
1947	41,353.68	47.00	879.87	0.54	472.82
1948	3,494.17	47.00	74.34	0.69	51.66
1949	3,765.73	47.00	80.12	0.89	71.48
1950	13,805.72	47.00	293.74	1.11	325.18
1951	7,539.28	47.00	160.41	1.31	210.17
1952	3,913.23	47.00	83.26	1.56	129.69
1953	525,410.70	47.00	11,178.98	1.81	20,180.45
1954	110,500.49	47.00	2,351.08	2.05	4,831.31
1955	41,584.49	47.00	884.78	2.31	2,041.30
1956	22,273.98	47.00	473.92	2.56	1,213.89
1957	181,331.30	47.00	3,858.12	2.82	10,868.72
1958	15,935.24	47.00	339.05	3.07	1,042.07
1961	11,663.58	47.00	248.16	3.84	951.72
1962	17,100.97	47.00	363.85	4.09	1,489.58
1963	7,650.64	47.00	162.78	4.35	708.80
1965	57,674.42	47.00	1,227.12	4.89	5,994.80
1966	9,452,640.81	47.00	201,120.52	5.16	1,037,571.07
1968	12,368.97	47.00	263.17	5.73	1,507.08
1969	8,343.96	47.00	177.53	6.03	1,070.51
1970	379,235.16	47.00	8,068.85	6.35	51,207.15
1971	10,232.80	47.00	217.72	6.68	1,453.71
1972	605,250.06	47.00	12,877.69	7.02	90,444.34
1973	2,297.07	47.00	48.87	7.39	361.01
1974	8,386.25	47.00	178.43	7.77	1,385.94
1975	1,680,201.42	47.00	35,749.06	8.17	291,979.75

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *47* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1976	54,189.63	47.00	1,152.97	8.59	9,900.39
1977	56,778.47	47.00	1,208.06	9.03	10,903.83
1978	32,729.10	47.00	696.37	9.49	6,605.08
1979	45,138.57	47.00	960.40	9.96	9,569.80
1980	799,412.49	47.00	17,008.82	10.46	177,979.99
1981	72,360.52	47.00	1,539.59	10.98	16,910.31
1982	59,525.72	47.00	1,266.51	11.53	14,597.41
1983	288,044.64	47.00	6,128.62	12.09	74,066.31
1984	250,999.93	47.00	5,340.44	12.66	67,631.00
1985	1,693,355.21	47.00	36,028.92	13.26	477,783.37
1986	226,760.23	47.00	4,824.70	13.88	66,948.54
1987	759,749.71	47.00	16,164.93	14.51	234,531.35
1988	329,311.48	47.00	7,006.64	15.16	106,205.20
1989	311,615.14	47.00	6,630.13	15.82	104,908.24
1990	3,463,156.42	47.00	73,684.36	16.51	1,216,240.91
1991	79,126.91	47.00	1,683.56	17.20	28,960.30
1992	459,275.48	47.00	9,771.84	17.91	175,031.49
1993	754,574.85	47.00	16,054.82	18.64	299,188.34
1994	250,014.08	47.00	5,319.46	19.37	103,049.56
1995	6,475,030.72	47.00	137,766.96	20.12	2,772,099.55
1996	129,486.81	47.00	2,755.05	20.88	57,534.90
1997	437,673.46	47.00	9,312.22	21.66	201,677.19
1998	401,410.66	47.00	8,540.67	22.44	191,693.05
1999	277,325.07	47.00	5,900.55	23.24	137,139.56
2000	1,039,279.34	47.00	22,112.38	24.05	531,802.87
2001	363,172.65	47.00	7,727.10	24.87	192,165.03
2002	478,546.04	47.00	10,181.86	25.70	261,658.70

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2003	584,302.97	47.00	12,432.01	26.54	329,925.63
2004	952,452.23	47.00	20,264.99	27.39	555,024.78
2005	2,838,606.99	47.00	60,396.05	28.25	1,706,075.61
2006	1,002,471.58	47.00	21,329.24	29.12	621,087.56
2007	694,897.78	47.00	14,785.10	30.00	443,522.13
2008	2,563,254.26	47.00	54,537.46	30.89	1,684,428.48
2009	2,506,766.58	47.00	53,335.59	31.78	1,695,119.23
2010	962,539.76	47.00	20,479.62	32.69	669,414.61
2011	235,577.57	47.00	5,012.30	33.60	168,411.06
2012	244,628.25	47.00	5,204.87	34.52	179,671.15
2013	568,674.86	47.00	12,099.50	35.45	428,894.53
2014	645,431.18	47.00	13,732.61	36.38	499,629.31
2015	1,275,097.20	47.00	27,129.80	37.32	1,012,580.56
2016	681,869.76	47.00	14,507.90	38.27	555,223.95
2017	2,248,796.68	47.00	47,846.86	39.22	1,876,695.02
2018	746,826.11	47.00	15,889.96	40.18	638,469.23
2019	408,691.77	47.00	8,695.59	41.14	357,764.76
2020	976,539.23	47.00	20,777.48	42.11	874,944.65
2021	986,883.04	47.00	20,997.56	43.08	904,602.55
2022	1,385,464.94	47.00	29,478.05	44.06	1,298,703.66
2023	2,692,194.15	47.00	57,280.87	45.03	2,579,633.04
2024	2,708,532.49	47.00	57,628.50	46.02	2,651,832.61
2025	1,274,988.28	47.00	27,127.48	46.75	1,268,303.03
Total	67,324,979.02	34.35	1,320,200.05	24.30	32,074,854.27

Composite Average Remaining Life ... 24.30 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
364.00 Flow Measuring Devices
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 15 **Survivor Curve:** L2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1989	7,979.00	15.00	531.93	1.25	664.60
1990	3,478.54	15.00	231.90	1.42	329.64
1991	8,740.98	15.00	582.73	1.60	932.86
1992	6,784.52	15.00	452.30	1.78	805.34
1999	51,368.90	15.00	3,424.58	3.19	10,913.71
2001	7,764.93	15.00	517.66	3.64	1,885.29
2002	4,455.38	15.00	297.02	3.88	1,152.22
2004	2,628.68	15.00	175.24	4.37	766.01
2005	8,722.16	15.00	581.48	4.62	2,687.50
2006	15,631.29	15.00	1,042.08	4.87	5,078.82
2007	9,030.61	15.00	602.04	5.12	3,083.93
2008	29,418.95	15.00	1,961.26	5.37	10,527.24
2009	92,082.61	15.00	6,138.83	5.61	34,434.30
2010	29,477.55	15.00	1,965.17	5.85	11,492.10
2011	53,822.99	15.00	3,588.19	6.09	21,851.14
2013	26,874.75	15.00	1,791.65	6.62	11,857.98
2014	152,277.99	15.00	10,151.84	6.93	70,357.94
2015	112,570.79	15.00	7,504.70	7.29	54,745.22
2016	5,515.89	15.00	367.73	7.73	2,842.16
2018	1,269.20	15.00	84.61	8.86	750.01
2020	30,025.23	15.00	2,001.68	10.37	20,758.30
2021	21,591.05	15.00	1,439.40	11.21	16,141.50
2024	57,960.15	15.00	3,864.00	14.00	54,114.31
Total	739,472.14	15.00	49,298.02	6.86	338,172.10

Composite Average Remaining Life ... 6.86 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
365.00 Flow Measuring Installations

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *25* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1970	30,360.76	0.00	0.00	0.00	0.00
1991	227,265.28	25.00	9,090.61	3.43	31,179.24
2009	14,938.00	25.00	597.52	10.91	6,516.21
Total	272,564.04	16.67	9,688.13	3.89	37,695.45

Composite Average Remaining Life ... 3.89 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
370.00 Receiving Wells

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2007	6,261.10	50.00	125.22	32.93	4,123.95
2009	92,112.20	50.00	1,842.24	34.73	63,990.09
2013	33,467.05	50.00	669.34	38.43	25,719.97
2017	1,547.02	50.00	30.94	42.22	1,306.15
2019	544,001.01	50.00	10,880.01	44.14	480,239.43
Total	677,388.38	50.00	13,547.76	42.47	575,379.59

Composite Average Remaining Life ... 42.47 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
371.00 Pumping Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 30 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1968	45,036.60	30.00	1,501.22	1.11	1,666.14
1985	24,445.49	30.00	814.85	6.89	5,611.80
1986	80,394.17	30.00	2,679.80	7.25	19,431.43
1987	7,690.98	30.00	256.37	7.62	1,953.53
1989	25,432.63	30.00	847.75	8.37	7,098.15
1990	1,864.20	30.00	62.14	8.76	544.23
1992	112,975.50	30.00	3,765.84	9.55	35,952.73
1993	164,128.61	30.00	5,470.94	9.95	54,445.96
1994	15,852.39	30.00	528.41	10.36	5,476.33
1996	56,678.77	30.00	1,889.29	11.21	21,181.43
1997	43,544.85	30.00	1,451.49	11.65	16,906.75
1998	108,836.69	30.00	3,627.88	12.09	43,873.10
1999	542,406.50	30.00	18,080.18	12.55	226,874.37
2001	15,000.00	30.00	500.00	13.49	6,744.57
2002	61,494.38	30.00	2,049.81	13.98	28,647.73
2003	120,731.71	30.00	4,024.38	14.47	58,251.95
2004	166,377.35	30.00	5,545.90	14.99	83,108.59
2005	101,526.82	30.00	3,384.22	15.51	52,486.80
2006	41,066.32	30.00	1,368.87	16.05	21,966.91
2007	6,031.45	30.00	201.05	16.60	3,337.26
2008	926,516.01	30.00	30,883.80	17.17	530,156.91
2009	597,821.84	30.00	19,927.35	17.75	353,709.16
2010	524,129.24	30.00	17,470.94	18.35	320,584.75
2011	66,844.03	30.00	2,228.13	18.97	42,260.07
2012	41,822.46	30.00	1,394.08	19.60	27,328.47
2013	60,261.59	30.00	2,008.72	20.26	40,693.06
2014	1,687,020.87	30.00	56,233.91	20.93	1,177,159.69

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
371.00 Pumping Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *30* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2015	231,880.48	30.00	7,729.33	21.63	167,192.17
2016	617,565.17	30.00	20,585.46	22.35	460,076.25
2017	395,217.96	30.00	13,173.90	23.09	304,201.08
2018	471,237.52	30.00	15,707.88	23.86	374,766.48
2019	3,682,743.71	30.00	122,757.87	24.65	3,025,960.10
2020	647,653.61	30.00	21,588.41	25.47	549,794.77
2021	200,584.16	30.00	6,686.12	26.31	175,934.54
2022	2,632,199.28	30.00	87,739.79	27.19	2,385,371.55
2023	2,046,330.53	30.00	68,210.87	28.09	1,916,044.12
2024	1,054,307.45	30.00	35,143.51	29.03	1,020,109.70
2025	2,437,785.60	30.00	81,259.35	29.75	2,417,623.93
Total	20,063,436.92	30.00	668,779.83	23.90	15,984,526.56

Composite Average Remaining Life ... 23.90 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
380.00 Treatment Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 *Survivor Curve:* S1.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1951	889,872.35	0.00	0.00	0.00	0.00
1957	10,040.14	35.00	286.86	0.64	184.98
1963	78,679.95	35.00	2,248.00	2.10	4,725.20
1965	83,399.24	35.00	2,382.84	2.60	6,203.92
1967	162,108.46	35.00	4,631.67	3.11	14,393.03
1969	2,145.15	35.00	61.29	3.61	221.19
1973	946.11	35.00	27.03	4.65	125.59
1981	2,355,765.96	35.00	67,307.59	6.92	465,557.11
1984	581,328.63	35.00	16,609.39	7.88	130,845.87
1985	476,475.05	35.00	13,613.57	8.22	111,843.52
1986	719,743.99	35.00	20,564.11	8.56	176,087.87
1987	144,303.20	35.00	4,122.95	8.92	36,779.42
1988	808,655.41	35.00	23,104.44	9.29	214,599.36
1989	1,182,368.41	35.00	33,781.95	9.67	326,572.68
1990	2,530,450.44	35.00	72,298.58	10.06	727,161.01
1991	2,231,839.71	35.00	63,766.84	10.46	667,054.54
1992	801,701.61	35.00	22,905.76	10.88	249,144.55
1993	3,128,193.67	35.00	89,376.96	11.31	1,010,556.53
1994	58,490.67	35.00	1,671.16	11.75	19,636.48
1995	7,336.00	35.00	209.60	12.21	2,559.07
1996	78,592.87	35.00	2,245.51	12.68	28,482.19
1997	20,044.11	35.00	572.69	13.18	7,545.29
1998	3,736,404.22	35.00	106,754.40	13.68	1,460,758.29
1999	1,076,156.53	35.00	30,747.33	14.21	436,895.53
2000	5,188.88	35.00	148.25	14.75	2,187.26
2001	1,763,697.55	35.00	50,391.36	15.32	771,771.01
2002	621,295.62	35.00	17,751.30	15.90	282,226.63

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
380.00 Treatment Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S1.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2003	2,041,741.80	35.00	58,335.48	16.50	962,687.78
2004	698,122.41	35.00	19,946.35	17.13	341,624.58
2005	2,242,056.25	35.00	64,058.75	17.77	1,138,522.02
2006	692,237.32	35.00	19,778.21	18.44	364,726.64
2007	56,165.28	35.00	1,604.72	19.13	30,699.55
2008	935,244.82	35.00	26,721.28	19.84	530,194.41
2009	18,928,182.07	35.00	540,805.16	20.58	11,128,285.74
2010	21,364,029.46	35.00	610,400.80	21.34	13,023,215.84
2011	7,089,610.85	35.00	202,560.30	22.12	4,479,896.23
2012	4,797,177.42	35.00	137,062.20	22.92	3,141,404.48
2013	3,050,877.66	35.00	87,167.93	23.74	2,069,778.63
2014	8,807,527.39	35.00	251,643.62	24.59	6,188,252.39
2015	1,026,823.44	35.00	29,337.81	25.46	746,865.61
2016	541,226.97	35.00	15,463.63	26.35	407,391.64
2017	651,726.63	35.00	18,620.76	27.25	507,445.83
2018	4,755,013.14	35.00	135,857.51	28.18	3,827,868.50
2019	1,905,741.81	35.00	54,449.76	29.12	1,585,348.11
2020	8,555,667.54	35.00	244,447.63	30.07	7,350,697.85
2021	10,538,260.88	35.00	301,093.15	31.04	9,345,480.84
2022	11,387,103.87	35.00	325,345.80	32.02	10,416,606.18
2023	11,446,067.90	35.00	327,030.49	33.01	10,793,812.15
2024	4,163,405.30	35.00	118,954.43	34.00	4,044,544.00
2025	4,322,578.80	35.00	123,502.24	34.75	4,291,699.65
Total	153,551,812.94	34.30	4,361,769.43	23.81	103,871,166.75

Composite Average Remaining Life ... 23.81 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
381.00 Plant Sewers

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2008	294,411.86	50.00	5,888.23	33.83	199,199.41
2009	4,434,866.70	50.00	88,697.29	34.73	3,080,889.72
2010	1,187,964.50	50.00	23,759.28	35.65	846,951.50
2011	6,597.06	50.00	131.94	36.57	4,824.65
2012	1,684.33	50.00	33.69	37.49	1,263.01
2014	234,044.45	50.00	4,680.89	39.36	184,262.23
2015	4,256.52	50.00	85.13	40.31	3,431.57
2016	45,239.43	50.00	904.79	41.26	37,331.39
2021	1,641.43	50.00	32.83	46.08	1,512.75
2022	431,044.32	50.00	8,620.88	47.06	405,663.01
2025	13,045.20	50.00	260.90	49.75	12,980.89
Total	6,654,795.80	50.00	133,095.85	35.90	4,778,310.14

Composite Average Remaining Life ... 35.90 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
382.00 Outfall Sewer Lines

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1957	12,139.53	50.00	242.79	4.10	996.12
1975	4,177.28	50.00	83.55	10.09	843.03
1993	192,691.50	50.00	3,853.83	21.34	82,249.81
2004	1,695.94	50.00	33.92	30.29	1,027.47
2005	9,240.93	50.00	184.82	31.16	5,759.64
2006	201,117.58	50.00	4,022.35	32.04	128,893.03
2009	26,051.26	50.00	521.02	34.73	18,097.74
2010	27,827.93	50.00	556.56	35.65	19,839.74
2014	100,305.10	50.00	2,006.10	39.36	78,969.79
2017	18,433.32	50.00	368.67	42.22	15,563.29
2023	33,315.31	50.00	666.31	48.03	32,005.70
Total	626,995.68	50.00	12,539.91	30.64	384,245.35

Composite Average Remaining Life ... 30.64 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
389.10 Other Plant - Intangibles

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2010	273,149.74	20.00	13,657.49	7.42	101,289.91
2013	8,814.50	20.00	440.73	9.25	4,077.71
2022	91,911.93	20.00	4,595.60	17.01	78,153.50
2023	1,990,538.30	20.00	99,526.92	18.00	1,791,588.38
2024	272,366.55	20.00	13,618.33	19.00	258,748.85
2025	22,280.04	20.00	1,114.00	19.75	22,001.54
Total	2,659,061.06	20.00	132,953.06	16.97	2,255,859.90

Composite Average Remaining Life ... 16.97 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
391.00 Transportation Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 14 *Survivor Curve:* L4

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1986	6,625.93	0.00	0.00	0.00	0.00
1987	468.88	0.00	0.00	0.00	0.00
1990	30,431.59	0.00	0.00	0.00	0.00
1991	21,931.10	0.00	0.00	0.00	0.00
2000	5,861.06	14.00	418.64	0.90	378.61
2001	22,361.85	14.00	1,597.24	1.03	1,641.20
2002	5,389.24	14.00	384.94	1.17	450.08
2005	3,310.52	14.00	236.46	1.67	395.30
2006	73,113.90	14.00	5,222.30	1.87	9,770.43
2011	149,228.96	14.00	10,658.97	2.78	29,644.59
2012	73,865.31	14.00	5,275.97	2.99	15,790.75
2013	62,726.96	14.00	4,480.40	3.35	15,013.65
2014	3,075.33	14.00	219.66	3.89	855.24
2016	2,423.80	14.00	173.12	5.36	928.14
2017	8,526.46	14.00	609.02	6.20	3,774.85
2018	927,895.26	14.00	66,276.73	7.09	469,864.48
2019	299,081.56	14.00	21,362.48	8.03	171,529.15
2020	26,190.18	14.00	1,870.68	9.01	16,846.58
2022	1,422,366.36	14.00	101,595.29	11.00	1,117,580.48
2023	1,165,809.58	14.00	83,270.22	12.00	999,269.13
2024	422,529.36	14.00	30,179.98	13.00	392,349.38
2025	3,630.70	14.00	259.33	13.75	3,565.87
Total	4,736,843.89	11.45	334,091.45	9.73	3,249,647.89

Composite Average Remaining Life ... 9.73 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
395.00 Power Operated Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *22* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2011	345,636.00	22.00	15,710.44	10.73	168,603.56
2015	3,257.24	22.00	148.05	13.61	2,015.11
2018	19,634.12	22.00	892.44	15.97	14,249.62
2022	64,677.17	22.00	2,939.82	19.33	56,835.84
2023	3,895.80	22.00	177.08	20.21	3,578.77
Total	437,100.33	22.00	19,867.84	12.35	245,282.89

Composite Average Remaining Life ... 12.35 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
354.30 Structures - SPP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1964	699,951.35	55.00	12,726.38	19.23	244,744.66
1969	27,685.26	55.00	503.37	21.42	10,783.53
1972	5,390.11	55.00	98.00	22.77	2,231.34
1979	312,467.50	55.00	5,681.22	26.01	147,771.10
1980	1,925,421.49	55.00	35,007.64	26.49	927,237.08
1981	1,006,124.74	55.00	18,293.16	26.97	493,302.75
1992	367,539.24	55.00	6,682.53	32.51	217,262.76
1999	101,094.83	55.00	1,838.09	36.36	66,832.76
2005	55,968.06	55.00	1,017.60	39.92	40,625.84
2010	464,545.22	55.00	8,446.27	43.13	364,323.23
2012	94,838.48	55.00	1,724.33	44.49	76,720.42
2013	22,305,947.27	55.00	405,562.40	45.19	18,328,232.09
2014	8,206,912.04	55.00	149,216.48	45.90	6,849,761.43
2016	592,801.05	55.00	10,778.19	47.37	510,603.77
2018	792,190.90	55.00	14,403.46	48.91	704,412.65
2023	9,247.84	55.00	168.14	53.11	8,929.36
Total	36,968,125.38	55.00	672,147.27	43.14	28,993,774.77

Composite Average Remaining Life ... 43.14 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1964	535,164.61	55.00	9,730.26	19.23	187,125.41
1965	1,945,016.40	55.00	35,363.91	19.66	695,421.46
1982	12,187,003.00	55.00	221,581.72	27.45	6,082,406.99
1993	445,465.16	55.00	8,099.36	33.04	267,639.35
1994	220,388.44	55.00	4,007.06	33.58	134,566.36
1995	91,800.02	55.00	1,669.09	34.12	56,957.29
2007	156,375.15	55.00	2,843.18	41.18	117,073.23
2011	840,813.68	55.00	15,287.51	43.81	669,721.33
2016	14,574.90	55.00	265.00	47.37	12,553.96
2017	164,519.97	55.00	2,991.27	48.13	143,967.57
2019	360,662.79	55.00	6,557.50	49.70	325,915.45
2022	54,845.32	55.00	997.19	52.22	52,071.49
2023	236,710.97	55.00	4,303.83	53.11	228,559.09
2024	9,360.58	55.00	170.19	54.03	9,195.72
2025	5,735.27	55.00	104.28	54.76	5,709.74
Total	17,268,436.26	55.00	313,971.35	28.63	8,988,884.43

Composite Average Remaining Life ... 28.63 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
354.70 Structures - General

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1966	150,591.59	55.00	2,738.03	20.10	55,035.80
1982	1,253,489.09	55.00	22,790.69	27.45	625,603.42
2003	636,629.39	55.00	11,575.07	38.70	447,997.21
2011	1,032,003.27	55.00	18,763.68	43.81	822,006.85
2012	725,865.41	55.00	13,197.54	44.49	587,195.18
2013	2,180,370.70	55.00	39,643.08	45.19	1,791,555.40
2015	123,582.58	55.00	2,246.95	46.63	104,779.45
2016	138,263.75	55.00	2,513.88	47.37	119,092.22
2020	9,183.01	55.00	166.96	50.52	8,434.51
2021	1,056,667.93	55.00	19,212.13	51.36	986,644.22
2023	54,982.48	55.00	999.68	53.11	53,088.99
2024	58,586.85	55.00	1,065.21	54.03	57,555.02
2025	30,548.67	55.00	555.43	54.76	30,412.71
Total	7,450,764.72	55.00	135,468.36	42.00	5,689,400.98

Composite Average Remaining Life ... 42.00 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
355.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1999	15,782.30	35.00	450.92	16.72	7,538.82
2000	52,360.25	35.00	1,496.00	17.23	25,769.00
2001	346,845.16	35.00	9,909.83	17.74	175,820.52
2005	41,623.25	35.00	1,189.23	19.93	23,703.21
2010	15,509.83	35.00	443.14	22.98	10,182.10
2013	621,166.53	35.00	17,747.57	25.00	443,703.09
2014	40,215.83	35.00	1,149.02	25.71	29,543.39
2016	74,060.67	35.00	2,116.01	27.19	57,538.92
2018	28,901.95	35.00	825.77	28.76	23,747.41
2021	63,989.80	35.00	1,828.28	31.28	57,183.42
2023	11,610.76	35.00	331.74	33.08	10,973.72
Total	1,312,066.33	35.00	37,487.51	23.09	865,703.59

Composite Average Remaining Life ... 23.09 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
360.10 Collection Sewers - Force Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1964	18,121.74	75.00	241.62	22.92	5,538.21
1969	43,735.32	75.00	583.14	26.23	15,297.45
1979	1,160,481.90	75.00	15,473.09	33.54	518,949.17
1980	3,297,197.01	75.00	43,962.63	34.31	1,508,451.94
2005	120,689.76	75.00	1,609.20	55.77	89,751.92
2010	48,159.59	75.00	642.13	60.46	38,825.79
2013	2,816,323.60	75.00	37,550.98	63.32	2,377,825.24
2016	85,454.40	75.00	1,139.39	66.21	75,438.37
2018	197,446.89	75.00	2,632.63	68.15	179,407.42
2023	76,315.55	75.00	1,017.54	73.03	74,313.60
2024	435,613.23	75.00	5,808.18	74.02	429,896.34
2025	135,260.74	75.00	1,803.48	74.75	134,816.84
Total	8,434,799.73	75.00	112,463.99	48.45	5,448,512.29

Composite Average Remaining Life ... 48.45 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1928	3,670,809.29	80.00	45,885.08	12.81	587,733.56
1935	4,054,172.45	80.00	50,677.12	15.07	763,498.52
1945	1,720,470.53	80.00	21,505.87	19.12	411,110.50
1954	1,192,673.98	80.00	14,908.41	23.68	353,056.41
1955	3,541,248.55	80.00	44,265.58	24.24	1,073,146.01
1960	5,245,097.78	80.00	65,563.68	27.19	1,782,358.62
1963	1,034,101.25	80.00	12,926.26	29.06	375,630.11
1964	2,087,631.13	80.00	26,095.37	29.70	775,056.17
1965	194,818.08	80.00	2,435.22	30.35	73,909.31
1967	445,174.85	80.00	5,564.68	31.67	176,240.03
1970	1,798,298.73	80.00	22,478.72	33.72	757,886.45
1972	271,964.18	80.00	3,399.55	35.12	119,377.70
1973	77,978.53	80.00	974.73	35.82	34,919.51
1974	3,493.19	80.00	43.66	36.54	1,595.52
1979	14,537,300.66	80.00	181,716.13	40.22	7,309,189.05
1980	24,752,207.00	80.00	309,402.37	40.98	12,678,722.41
1985	52,022.95	80.00	650.29	44.84	29,161.14
1986	92,289.52	80.00	1,153.62	45.63	52,643.41
1991	110,641.44	80.00	1,383.02	49.67	68,691.62
1993	844,291.83	80.00	10,553.64	51.32	541,624.84
1994	470,328.99	80.00	5,879.11	52.15	306,617.29
1997	196,094.90	80.00	2,451.18	54.68	134,039.99
1999	76,270.45	80.00	953.38	56.39	53,763.16
2000	296,086.72	80.00	3,701.08	57.26	211,908.76
2001	37,633.99	80.00	470.42	58.12	27,341.91
2002	705,945.41	80.00	8,824.31	58.99	520,561.78
2003	94,266.29	80.00	1,178.33	59.87	70,541.59

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
361.10 Collection Sewers - Gravity Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *80* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2004	360,348.06	80.00	4,504.35	60.75	273,623.77
2005	111,394.94	80.00	1,392.44	61.63	85,814.89
2006	283,846.47	80.00	3,548.08	62.52	221,811.17
2007	5,704,200.28	80.00	71,302.45	63.41	4,521,008.43
2008	119,976.66	80.00	1,499.71	64.30	96,434.69
2009	235,121.28	80.00	2,939.01	65.20	191,625.00
2010	245,614.00	80.00	3,070.17	66.10	202,944.42
2011	17,434.94	80.00	217.94	67.01	14,603.56
2012	3,758,914.22	80.00	46,986.39	67.92	3,191,177.89
2013	391,862.47	80.00	4,898.28	68.83	337,143.46
2014	4,329,447.37	80.00	54,118.05	69.74	3,774,407.82
2015	19,809.14	80.00	247.61	70.66	17,496.89
2016	567,236.31	80.00	7,090.45	71.58	507,567.70
2018	466,259.88	80.00	5,828.24	73.44	428,002.41
2019	113,400.85	80.00	1,417.51	74.37	105,415.44
2020	192,829.08	80.00	2,410.36	75.30	181,498.63
2021	285,118.60	80.00	3,563.98	76.23	271,698.12
2022	351,246.78	80.00	4,390.58	77.17	338,829.96
2023	276,325.50	80.00	3,454.07	78.11	269,803.52
2024	211,272.84	80.00	2,640.91	79.06	208,778.03
2025	24,802.09	80.00	310.03	79.76	24,728.85
Total	85,669,774.43	80.00	1,070,871.43	41.61	44,554,740.01

Composite Average Remaining Life ... 41.61 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1928	133,865.67	50.00	2,677.31	0.65	1,735.30
1935	143,174.69	50.00	2,863.49	1.88	5,382.35
1945	184,529.24	50.00	3,690.59	3.93	14,495.72
1954	139,704.99	50.00	2,794.10	6.05	16,906.64
1955	407,033.51	50.00	8,140.67	6.31	51,342.14
1960	620,219.48	50.00	12,404.39	7.66	95,009.70
1963	109,198.31	50.00	2,183.97	8.54	18,641.83
1964	318,195.84	50.00	6,363.92	8.84	56,257.17
1965	26,029.80	50.00	520.60	9.15	4,763.84
1967	40,650.83	50.00	813.02	9.79	7,961.54
1970	280,225.51	50.00	5,604.51	10.81	60,588.07
1972	6,428.29	50.00	128.57	11.53	1,482.31
1973	13,198.58	50.00	263.97	11.90	3,141.82
1979	2,334,731.47	50.00	46,694.63	14.34	669,726.25
1980	3,845,310.99	50.00	76,906.22	14.79	1,137,232.08
1985	33,655.06	50.00	673.10	17.20	11,575.39
1986	9,041.14	50.00	180.82	17.72	3,204.09
1991	15,507.95	50.00	310.16	20.56	6,376.25
1993	123,678.41	50.00	2,473.57	21.81	53,940.45
1994	54,667.75	50.00	1,093.36	22.46	24,553.33
1997	33,687.94	50.00	673.76	24.51	16,516.38
1999	14,806.12	50.00	296.12	25.98	7,692.00
2000	45,582.44	50.00	911.65	26.73	24,372.18
2001	30,843.97	50.00	616.88	27.51	16,970.90
2002	99,256.16	50.00	1,985.12	28.31	56,190.37
2003	478,019.08	50.00	9,560.38	29.12	278,383.85
2004	701,321.96	50.00	14,026.44	29.95	420,075.40

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2005	38,617.68	50.00	772.35	30.80	23,785.67
2006	57,803.90	50.00	1,156.08	31.66	36,602.01
2007	3,028.12	50.00	60.56	32.54	1,970.74
2008	78,067.79	50.00	1,561.36	33.44	52,205.75
2009	11,484.87	50.00	229.70	34.35	7,889.21
2010	56,286.57	50.00	1,125.73	35.27	39,704.07
2011	336,348.58	50.00	6,726.97	36.21	243,553.86
2012	485,107.87	50.00	9,702.16	37.15	360,464.27
2014	13,493.59	50.00	269.87	39.08	10,545.91
2016	103,973.56	50.00	2,079.47	41.03	85,327.91
2018	62,427.36	50.00	1,248.55	43.01	53,701.73
2019	62,386.02	50.00	1,247.72	44.01	54,906.93
2020	16,501.98	50.00	330.04	45.00	14,852.64
2021	140,858.75	50.00	2,817.18	46.00	129,592.74
2022	219,114.43	50.00	4,382.29	47.00	205,968.71
2023	49,274.81	50.00	985.50	48.00	47,303.85
2024	88,498.50	50.00	1,769.97	49.00	86,728.54
2025	138,059.82	50.00	2,761.20	49.75	137,369.51
Total	12,203,899.38	50.00	244,078.00	19.08	4,656,991.37

Composite Average Remaining Life ... 19.08 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1930	488,889.07	0.00	0.00	0.00	0.00
1935	529,809.03	0.00	0.00	0.00	0.00
1945	462,171.02	0.00	0.00	0.00	0.00
1954	97,074.56	47.00	2,065.42	2.05	4,244.30
1955	652,096.94	47.00	13,874.44	2.31	32,010.17
1960	798,378.67	47.00	16,986.82	3.58	60,759.01
1965	15,638.55	47.00	332.74	4.89	1,625.50
1967	3,867.13	47.00	82.28	5.43	447.17
1969	86,681.44	47.00	1,844.29	6.03	11,121.01
1970	120,397.57	47.00	2,561.66	6.35	16,256.97
1972	1,344.47	47.00	28.61	7.02	200.91
1973	4,549.23	47.00	96.79	7.39	714.96
1979	22,062.14	47.00	469.41	9.96	4,677.38
1980	4,290,203.02	47.00	91,281.15	10.46	955,164.30
1985	679.28	47.00	14.45	13.26	191.66
1986	3,713.98	47.00	79.02	13.88	1,096.51
1991	6,171.80	47.00	131.32	17.20	2,258.87
1993	68,221.47	47.00	1,451.52	18.64	27,049.76
1994	88,444.00	47.00	1,881.79	19.37	36,454.41
1997	11,311.99	47.00	240.68	21.66	5,212.49
1999	17,055.37	47.00	362.88	23.24	8,434.02
2000	70,788.27	47.00	1,506.14	24.05	36,222.60
2001	52,826.26	47.00	1,123.97	24.87	27,951.88
2002	397,749.97	47.00	8,462.79	25.70	217,481.15
2003	75,513.19	47.00	1,606.67	26.54	42,638.39
2004	56,349.51	47.00	1,198.93	27.39	32,836.69
2005	36,547.89	47.00	777.62	28.25	21,966.22

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *47* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2006	38,274.75	47.00	814.36	29.12	23,713.36
2007	108,254.08	47.00	2,303.28	30.00	69,093.73
2008	36,663.45	47.00	780.08	30.89	24,093.19
2009	58,634.46	47.00	1,247.54	31.78	39,649.64
2010	27,404.34	47.00	583.07	32.69	19,058.81
2011	70,810.82	47.00	1,506.62	33.60	50,621.65
2012	1,689,929.08	47.00	35,956.03	34.52	1,241,195.55
2014	375,878.55	47.00	7,997.44	36.38	290,968.19
2016	56,816.46	47.00	1,208.86	38.27	46,263.76
2018	20,419.84	47.00	434.47	40.18	17,457.13
2019	134,135.44	47.00	2,853.95	41.14	117,420.85
2020	45,565.53	47.00	969.48	42.11	40,825.10
2021	266,093.03	47.00	5,661.57	43.08	243,907.76
2022	121,967.53	47.00	2,595.06	44.06	114,329.62
2024	87,946.02	47.00	1,871.20	46.02	86,104.98
2025	237,575.47	47.00	5,054.81	46.75	236,329.77
Total	11,834,904.67	43.72	220,299.18	19.10	4,208,049.43

Composite Average Remaining Life ... 19.10 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
364.00 Flow Measuring Devices

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *15* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1999	176,385.00	15.00	11,758.97	3.19	37,474.31
2012	40,821.83	15.00	2,721.45	6.34	17,262.48
2023	10,799.01	15.00	719.93	13.03	9,383.93
2024	9,612.38	15.00	640.82	14.00	8,974.57
Total	237,618.22	15.00	15,841.17	4.61	73,095.29

Composite Average Remaining Life ... 4.61 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
371.00 Pumping Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *30* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1964	125,073.63	0.00	0.00	0.00	0.00
1969	1,842.43	30.00	61.41	1.44	88.73
1972	61,400.84	30.00	2,046.69	2.44	5,000.11
1981	890,691.67	30.00	29,689.66	5.47	162,509.31
1999	897,139.70	30.00	29,904.59	12.55	375,249.94
2004	17,393.60	30.00	579.79	14.99	8,688.43
2005	38,922.09	30.00	1,297.40	15.51	20,121.74
2009	135,459.23	30.00	4,515.30	17.75	80,146.24
2010	163,846.33	30.00	5,461.53	18.35	100,216.95
2011	467,265.18	30.00	15,575.47	18.97	295,413.94
2013	2,878,328.18	30.00	95,944.07	20.26	1,943,659.09
2015	52,657.14	30.00	1,755.23	21.63	37,967.24
2016	283,314.69	30.00	9,443.80	22.35	211,064.95
2018	301,860.16	30.00	10,061.98	23.86	240,063.80
2019	49,323.67	30.00	1,644.12	24.65	40,527.25
2023	20,951.62	30.00	698.39	28.09	19,617.67
2024	310,264.30	30.00	10,342.12	29.03	300,200.50
2025	5,481.61	30.00	182.72	29.75	5,436.27
Total	6,701,216.07	28.33	219,204.29	17.55	3,845,972.14

Composite Average Remaining Life ... 17.55 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
380.00 Treatment Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1966	215,682.63	35.00	6,162.36	2.86	17,625.42
1982	7,765,160.87	35.00	221,861.72	7.23	1,603,820.20
1991	234,030.48	35.00	6,686.58	10.46	69,947.27
1992	47,323.40	35.00	1,352.10	10.88	14,706.68
1993	2,255,219.63	35.00	64,434.84	11.31	728,544.06
1998	545,786.75	35.00	15,593.91	13.68	213,376.95
2000	563,180.56	35.00	16,090.87	14.75	237,396.11
2011	916,479.66	35.00	26,185.13	22.12	579,119.77
2014	3,866,902.42	35.00	110,482.92	24.59	2,716,922.36
2016	33,556.41	35.00	958.75	26.35	25,258.54
2018	20,106.03	35.00	574.46	28.18	16,185.70
2019	7,244,673.55	35.00	206,990.66	29.12	6,026,697.54
2020	212,101.75	35.00	6,060.05	30.07	182,229.60
2021	198,452.19	35.00	5,670.06	31.04	175,990.25
2022	350,562.80	35.00	10,016.08	32.02	320,685.11
2023	29,625.40	35.00	846.44	33.01	27,937.19
2024	621,509.55	35.00	17,757.41	34.00	603,766.04
2025	240,370.41	35.00	6,867.73	34.75	238,653.28
Total	25,360,724.49	35.00	724,592.08	19.04	13,798,862.06

Composite Average Remaining Life ... 19.04 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
382.00 Outfall Sewer Lines

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1965	73,525.14	50.00	1,470.50	6.29	9,242.17
Total	73,525.14	50.00	1,470.50	6.29	9,242.17

Composite Average Remaining Life ... 6.29 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
391.00 Transportation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *14* ***Survivor Curve:*** *L4*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2011	119,487.15	14.00	8,534.60	2.78	23,736.33
2014	13,147.84	14.00	939.11	3.89	3,656.38
2017	21,007.05	14.00	1,500.47	6.20	9,300.27
2018	31,168.11	14.00	2,226.24	7.09	15,782.80
2019	27,488.89	14.00	1,963.45	8.03	15,765.42
2020	28,863.43	14.00	2,061.63	9.01	18,566.12
2022	75,954.78	14.00	5,425.22	11.00	59,679.12
2023	68,311.66	14.00	4,879.29	12.00	58,553.07
2024	189,347.17	14.00	13,524.49	13.00	175,822.68
2025	99,173.31	14.00	7,083.65	13.75	97,402.40
Total	673,949.39	14.00	48,138.15	9.94	478,264.59

Composite Average Remaining Life ... 9.94 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
395.00 Power Operated Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *22* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1993	18,154.62	22.00	825.20	2.48	2,045.11
1997	39,291.32	22.00	1,785.94	3.70	6,613.46
2000	14,790.15	22.00	672.27	4.79	3,219.24
2001	2,322.53	22.00	105.57	5.20	548.64
2004	4,697.67	22.00	213.53	6.58	1,405.28
2011	22,500.91	22.00	1,022.75	10.73	10,976.09
2012	17,502.58	22.00	795.56	11.42	9,086.14
2015	35,730.49	22.00	1,624.08	13.61	22,104.87
2018	25,218.04	22.00	1,146.25	15.97	18,302.19
2019	7,634.66	22.00	347.02	16.79	5,825.21
2021	452,466.57	22.00	20,566.29	18.47	379,859.98
2023	11,478.29	22.00	521.73	20.21	10,544.22
Total	651,787.83	22.00	29,626.19	15.88	470,530.44

Composite Average Remaining Life ... 15.88 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.20 Structures - Collection

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *45* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2017	984,312.76	45.00	21,873.61	37.23	814,331.44
2018	1,927,982.08	45.00	42,844.03	38.18	1,635,992.64
2019	1,211,517.34	45.00	26,922.59	39.15	1,053,930.34
2020	173,808.85	45.00	3,862.42	40.11	154,931.77
2021	222,041.86	45.00	4,934.26	41.08	202,713.80
2022	2,205,419.74	45.00	49,009.30	42.06	2,061,188.51
2023	7,951,251.02	45.00	176,694.38	43.04	7,604,081.40
2024	29,623,753.60	45.00	658,305.32	44.02	28,976,106.69
2025	36,515.37	45.00	811.45	44.75	36,315.42
Total	44,336,602.62	45.00	985,257.37	43.18	42,539,592.02

Composite Average Remaining Life ... 43.18 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.30 Structures - SPP
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1960	2,307,540.06	55.00	41,955.24	17.52	735,040.02
1968	671,326.79	55.00	12,205.93	20.98	256,074.95
1970	60,405.27	55.00	1,098.28	21.87	24,017.75
1972	430,021.03	55.00	7,818.56	22.77	178,015.67
1990	89,924.53	55.00	1,634.99	31.46	51,441.01
1995	131,932.60	55.00	2,398.77	34.12	81,857.54
1996	344,568.73	55.00	6,264.88	34.67	217,230.35
2000	105,072.37	55.00	1,910.41	36.94	70,560.87
2004	244,354.55	55.00	4,442.81	39.31	174,643.26
2005	52,725.90	55.00	958.65	39.92	38,272.44
2006	2,611,533.23	55.00	47,482.39	40.54	1,925,141.62
2011	7,145.91	55.00	129.93	43.81	5,691.83
2012	7,147.63	55.00	129.96	44.49	5,782.14
2013	148,319.26	55.00	2,696.71	45.19	121,870.18
2014	10,489,746.72	55.00	190,722.54	45.90	8,755,091.09
2015	40,952.90	55.00	744.60	46.63	34,721.90
2017	762,725.81	55.00	13,867.73	48.13	667,443.47
2018	1,526,953.41	55.00	27,762.77	48.91	1,357,760.23
2019	446,541.64	55.00	8,118.93	49.70	403,520.47
2020	2,544,665.64	55.00	46,266.62	50.52	2,337,251.06
2021	237,091.40	55.00	4,310.75	51.36	221,379.73
2023	2,377,007.71	55.00	43,218.29	53.11	2,295,148.02
2024	193,229.75	55.00	3,513.27	54.03	189,826.60
2025	11,393.77	55.00	207.16	54.76	11,343.06

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.30 Structures - SPP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	25,842,326.61	55.00	469,860.16	42.90	20,159,125.24

Composite Average Remaining Life ... 42.90 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1960	10,599,624.45	55.00	192,720.31	17.52	3,376,386.98
1972	12,693,053.48	55.00	230,782.63	22.77	5,254,539.24
1975	17,981,926.22	55.00	326,943.89	24.14	7,892,194.53
1985	1,204,742.75	55.00	21,904.40	28.92	633,537.46
1993	12,736.38	55.00	231.57	33.04	7,652.13
1994	101,865.06	55.00	1,852.09	33.58	62,197.50
1995	8,797,962.75	55.00	159,962.85	34.12	5,458,693.22
1996	2,958,647.48	55.00	53,793.55	34.67	1,865,253.46
1999	75,887.27	55.00	1,379.77	36.36	50,168.30
2001	236,542.84	55.00	4,300.78	37.52	161,348.41
2003	1,461,646.93	55.00	26,575.38	38.70	1,028,563.49
2004	367,499.67	55.00	6,681.81	39.31	262,656.62
2006	131,140.18	55.00	2,384.37	40.54	96,672.49
2007	18,890.83	55.00	343.47	41.18	14,142.98
2008	402,043.27	55.00	7,309.87	41.82	305,691.38
2009	16,621.70	55.00	302.21	42.47	12,835.35
2010	12,094,530.43	55.00	219,900.40	43.13	9,485,230.24
2011	393,025.03	55.00	7,145.90	43.81	313,050.62
2012	282,267.24	55.00	5,132.13	44.49	228,342.55
2013	8,325.00	55.00	151.36	45.19	6,840.44
2014	16,814,574.82	55.00	305,719.33	45.90	14,034,002.73
2015	5,371,118.78	55.00	97,656.64	46.63	4,553,901.24
2016	19,818,007.39	55.00	360,327.16	47.37	17,070,059.64
2017	3,090,389.28	55.00	56,188.86	48.13	2,704,327.19
2018	101,683.42	55.00	1,848.79	48.91	90,416.45
2019	265,878.40	55.00	4,834.15	49.70	240,262.87
2020	1,060,026.32	55.00	19,273.19	50.52	973,624.04

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2021	16,913,734.53	55.00	307,522.23	51.36	15,792,888.18
2022	975,108.52	55.00	17,729.23	52.22	925,791.97
2023	37,310.78	55.00	678.38	53.11	36,025.87
2024	30,884.14	55.00	561.53	54.03	30,340.21
2025	2,525,732.72	55.00	45,922.38	54.76	2,514,491.65
Total	136,843,428.06	55.00	2,488,060.60	38.38	95,482,129.43

Composite Average Remaining Life ... 38.38 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
355.00 Power Generation Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1991	21,067.56	35.00	601.93	13.01	7,829.12
2002	19,740.16	35.00	564.00	18.27	10,304.92
2004	38,295.54	35.00	1,094.16	19.37	21,188.59
2012	403,177.35	35.00	11,519.32	24.31	280,017.43
2015	426,122.43	35.00	12,174.89	26.44	321,916.38
2020	22,037.01	35.00	629.63	30.41	19,149.28
2021	1,986.71	35.00	56.76	31.28	1,775.39
2024	2,289,043.09	35.00	65,401.05	34.02	2,225,161.52
Total	3,221,469.85	35.00	92,041.75	31.37	2,887,342.62

Composite Average Remaining Life ... 31.37 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
360.10 Collection Sewers - Force Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 75 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1955	1,834.70	75.00	24.46	17.64	431.52
1960	17,379.90	75.00	231.73	20.45	4,740.04
1972	234,615.90	75.00	3,128.21	28.34	88,640.49
1989	4,590.34	75.00	61.20	41.60	2,545.87
1995	333,428.74	75.00	4,445.72	46.75	207,816.23
1996	180,459.83	75.00	2,406.13	47.62	114,588.12
2004	32,074.48	75.00	427.66	54.85	23,457.06
2015	1,168,459.93	75.00	15,579.47	65.24	1,016,472.72
2018	135,690.81	75.00	1,809.21	68.15	123,293.60
2019	37,085.16	75.00	494.47	69.12	34,177.85
2020	832,091.90	75.00	11,094.56	70.10	777,674.10
2021	671,346.60	75.00	8,951.29	71.07	636,192.58
2022	4,425,582.14	75.00	59,007.76	72.05	4,251,613.65
2023	6,485,350.26	75.00	86,471.33	73.03	6,315,223.14
2024	2,967,781.33	75.00	39,570.42	74.02	2,928,832.82
Total	17,527,772.02	75.00	233,703.62	70.71	16,525,699.80

Composite Average Remaining Life ... 70.71 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 *Survivor Curve:* R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1938	833,176.70	80.00	10,414.70	16.17	168,404.25
1945	209,851.74	80.00	2,623.14	19.12	50,144.57
1950	876,568.41	80.00	10,957.10	21.55	236,079.30
1955	16,947,767.54	80.00	211,846.95	24.24	5,135,880.42
1959	56,041,493.45	80.00	700,518.18	26.57	18,615,844.26
1960	1,043,301.20	80.00	13,041.26	27.19	354,528.54
1962	11,518,386.30	80.00	143,979.73	28.42	4,092,478.14
1963	27,097,985.26	80.00	338,724.58	29.06	9,843,155.27
1965	638,127.31	80.00	7,976.59	30.35	242,090.21
1968	1,806,188.42	80.00	22,577.34	32.35	730,333.83
1970	751,560.29	80.00	9,394.50	33.72	316,742.35
1972	15,304,008.47	80.00	191,299.97	35.12	6,717,639.53
1973	517,337.40	80.00	6,466.71	35.82	231,668.46
1974	457,111.24	80.00	5,713.89	36.54	208,786.81
1975	2,132,433.52	80.00	26,655.40	37.26	993,236.54
1976	35,466,245.60	80.00	443,327.76	37.99	16,844,216.63
1977	313,994.11	80.00	3,924.92	38.73	152,014.88
1978	818,922.39	80.00	10,236.52	39.47	404,060.32
1979	864,384.51	80.00	10,804.80	40.22	434,602.68
1980	1,407,555.32	80.00	17,594.43	40.98	720,986.34
1981	663,781.30	80.00	8,297.26	41.74	346,318.13
1982	495,753.11	80.00	6,196.91	42.51	263,401.45
1983	365,157.06	80.00	4,564.46	43.28	197,537.81
1984	636,254.98	80.00	7,953.18	44.06	350,410.44
1985	1,571,332.24	80.00	19,641.64	44.84	880,800.43
1986	739,759.61	80.00	9,246.99	45.63	421,970.62
1987	686,531.82	80.00	8,581.64	46.43	398,454.20

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *80* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1988	275,257.69	80.00	3,440.72	47.23	162,513.97
1989	24,437,646.26	80.00	305,470.36	48.04	14,674,578.78
1990	2,840,779.70	80.00	35,509.72	48.85	1,734,688.94
1991	1,100,766.48	80.00	13,759.57	49.67	683,409.73
1992	2,102,271.26	80.00	26,278.37	50.49	1,326,882.88
1993	357,995.25	80.00	4,474.94	51.32	229,658.88
1994	941,729.89	80.00	11,771.62	52.15	613,933.38
1995	2,276,458.62	80.00	28,455.71	52.99	1,507,960.63
1996	3,458,334.01	80.00	43,229.14	53.84	2,327,294.48
1997	220,445.94	80.00	2,755.57	54.68	150,685.06
1998	1,443,654.89	80.00	18,045.67	55.54	1,002,180.30
1999	9,409,696.47	80.00	117,621.12	56.39	6,632,910.30
2000	300,950.63	80.00	3,761.88	57.26	215,389.85
2001	543,534.45	80.00	6,794.18	58.12	394,889.54
2002	156,924.96	80.00	1,961.56	58.99	115,715.94
2003	19,520.22	80.00	244.00	59.87	14,607.42
2004	1,784,624.89	80.00	22,307.80	60.75	1,355,122.59
2005	1,337,027.70	80.00	16,712.83	61.63	1,030,000.91
2006	1,123,901.91	80.00	14,048.76	62.52	878,270.54
2007	4,883,155.84	80.00	61,039.41	63.41	3,870,268.86
2008	2,340,117.90	80.00	29,251.45	64.30	1,880,937.06
2009	9,135,819.13	80.00	114,197.66	65.20	7,445,737.39
2010	3,736,525.58	80.00	46,706.54	66.10	3,087,393.36
2011	3,662,994.20	80.00	45,787.40	67.01	3,068,134.74
2012	259,675.51	80.00	3,245.94	67.92	220,454.82
2013	436,419.34	80.00	5,455.24	68.83	375,478.48
2014	1,121,719.09	80.00	14,021.48	69.74	977,913.56

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.10 Collection Sewers - Gravity Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *80* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2015	16,178.80	80.00	202.23	70.66	14,290.31
2016	12,848,487.71	80.00	160,605.98	71.58	11,496,932.17
2017	6,871,493.85	80.00	85,893.61	72.51	6,228,055.80
2018	3,793,202.85	80.00	47,415.00	73.44	3,481,963.71
2019	37,918,557.67	80.00	473,981.64	74.37	35,248,426.39
2020	26,291,831.99	80.00	328,647.67	75.30	24,746,949.81
2021	11,232,426.03	80.00	140,405.23	76.23	10,703,717.88
2022	11,300,125.46	80.00	141,251.47	77.17	10,900,658.08
2023	44,300,863.63	80.00	553,760.41	78.11	43,255,250.83
2024	15,020,372.62	80.00	187,754.53	79.06	14,843,004.73
2025	2,248,192.12	80.00	28,102.38	79.76	2,241,553.59
Total	431,754,649.84	80.00	5,396,929.35	53.45	288,489,602.14

Composite Average Remaining Life ... 53.45 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1918	192,002.76	0.00	0.00	0.00	0.00
1938	263,057.70	50.00	5,261.15	2.46	12,963.52
1945	40,698.28	50.00	813.97	3.93	3,197.06
1950	100,436.85	50.00	2,008.74	5.07	10,182.98
1955	82,962.76	50.00	1,659.26	6.31	10,464.71
1959	10,519,036.90	50.00	210,380.75	7.38	1,552,314.44
1960	124,835.20	50.00	2,496.70	7.66	19,123.16
1963	1,816,090.25	50.00	36,321.81	8.54	310,034.45
1965	115,835.77	50.00	2,316.72	9.15	21,199.66
1968	62,128.41	50.00	1,242.57	10.12	12,580.11
1970	131,490.13	50.00	2,629.80	10.81	28,429.72
1972	1,406,333.16	50.00	28,126.67	11.53	324,288.08
1973	300,514.18	50.00	6,010.28	11.90	71,535.02
1974	145,131.67	50.00	2,902.63	12.28	35,655.40
1975	428,835.35	50.00	8,576.71	12.68	108,710.07
1976	1,216,546.67	50.00	24,330.94	13.08	318,154.97
1977	135,672.33	50.00	2,713.45	13.49	36,597.71
1978	365,240.42	50.00	7,304.81	13.91	101,606.81
1979	376,391.09	50.00	7,527.82	14.34	107,969.16
1980	344,640.29	50.00	6,892.81	14.79	101,925.69
1981	303,876.29	50.00	6,077.53	15.24	92,644.10
1982	241,192.22	50.00	4,823.84	15.71	75,794.66
1983	167,201.76	50.00	3,344.04	16.19	54,153.41
1984	193,153.85	50.00	3,863.08	16.69	64,469.92
1985	425,383.15	50.00	8,507.66	17.20	146,307.12
1986	362,362.31	50.00	7,247.25	17.72	128,417.75
1987	251,003.20	50.00	5,020.06	18.26	91,648.62

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1988	96,404.18	50.00	1,928.08	18.81	36,264.08
1989	1,480,246.96	50.00	29,604.94	19.38	573,614.44
1990	1,029,539.70	50.00	20,590.80	19.96	410,965.79
1991	480,597.06	50.00	9,611.94	20.56	197,602.35
1992	446,706.85	50.00	8,934.14	21.17	189,170.45
1993	106,820.01	50.00	2,136.40	21.81	46,587.92
1994	172,867.94	50.00	3,457.36	22.46	77,641.46
1995	493,617.84	50.00	9,872.36	23.12	228,294.24
1996	766,628.21	50.00	15,332.57	23.81	365,070.78
1997	99,518.88	50.00	1,990.38	24.51	48,791.68
1998	667,600.22	50.00	13,352.01	25.24	336,945.89
1999	377,718.65	50.00	7,554.37	25.98	196,230.35
2001	40,263.23	50.00	805.26	27.51	22,153.54
2004	391,028.74	50.00	7,820.58	29.95	234,217.04
2005	622,671.32	50.00	12,453.43	30.80	383,520.00
2006	485,376.83	50.00	9,707.54	31.66	307,345.49
2007	261,475.47	50.00	5,229.51	32.54	170,171.83
2008	302,656.61	50.00	6,053.13	33.44	202,393.52
2010	100,531.28	50.00	2,010.63	35.27	70,913.91
2011	258,381.57	50.00	5,167.63	36.21	187,097.05
2012	100,205.47	50.00	2,004.11	37.15	74,458.68
2013	16,187.94	50.00	323.76	38.11	12,338.68
2014	101,870.38	50.00	2,037.41	39.08	79,616.79
2016	19,978.89	50.00	399.58	41.03	16,396.06
2019	46,757.52	50.00	935.15	44.01	41,152.04
2020	883,019.13	50.00	17,660.38	45.00	794,762.95
2021	904,384.65	50.00	18,087.69	46.00	832,051.13

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	2,203,271.10	50.00	44,065.42	47.00	2,071,086.34
2023	4,897,474.91	50.00	97,949.50	48.00	4,701,579.59
2024	4,306,744.15	50.00	86,134.89	49.00	4,220,609.77
2025	3,315,430.70	50.00	66,308.62	49.75	3,298,853.35
Total	45,588,029.34	49.14	907,920.59	26.73	24,268,265.48

Composite Average Remaining Life ... 26.73 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1938	143,054.88	0.00	0.00	0.00	0.00
1945	22,073.48	0.00	0.00	0.00	0.00
1950	56,278.80	47.00	1,197.42	1.11	1,325.59
1955	48,679.71	47.00	1,035.74	2.31	2,389.59
1960	76,154.48	47.00	1,620.31	3.58	5,795.58
1965	78,429.72	47.00	1,668.72	4.89	8,152.14
1970	106,824.27	47.00	2,272.86	6.35	14,424.21
1972	579,573.92	47.00	12,331.39	7.02	86,607.47
1973	116,887.81	47.00	2,486.98	7.39	18,370.04
1974	139,735.00	47.00	2,973.09	7.77	23,093.15
1975	332,974.60	47.00	7,084.58	8.17	57,863.21
1977	107,076.26	47.00	2,278.22	9.03	20,563.09
1978	281,896.00	47.00	5,997.80	9.49	56,889.60
1979	300,946.68	47.00	6,403.14	9.96	63,803.54
1980	266,091.96	47.00	5,661.55	10.46	59,242.31
1981	234,753.75	47.00	4,994.77	10.98	54,860.85
1982	190,062.15	47.00	4,043.89	11.53	46,608.69
1983	132,799.92	47.00	2,825.54	12.09	34,147.48
1984	157,785.94	47.00	3,357.16	12.66	42,514.83
1985	324,685.98	47.00	6,908.23	13.26	91,610.76
1986	295,474.98	47.00	6,286.72	13.88	87,235.84
1987	205,043.94	47.00	4,362.65	14.51	63,296.15
1988	70,509.94	47.00	1,500.22	15.16	22,739.94
1989	746,798.97	47.00	15,889.38	15.82	251,417.07
1990	832,608.91	47.00	17,715.13	16.51	292,407.53
1991	393,283.11	47.00	8,367.75	17.20	143,940.88
1992	531,951.61	47.00	11,318.15	17.91	202,728.61

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1994	66,342.64	47.00	1,411.55	19.37	27,344.78
1995	100,262.25	47.00	2,133.24	20.12	42,924.42
1996	265,445.95	47.00	5,647.80	20.88	117,945.65
1997	87,126.12	47.00	1,853.75	21.66	40,147.17
1998	573,379.95	47.00	12,199.60	22.44	273,816.73
1999	165,344.70	47.00	3,517.98	23.24	81,764.33
2000	12,081.20	47.00	257.05	24.05	6,181.99
2004	188,269.92	47.00	4,005.75	27.39	109,710.98
2005	502,155.36	47.00	10,684.18	28.25	301,808.25
2006	406,003.36	47.00	8,638.39	29.12	251,541.93
2007	228,819.60	47.00	4,868.51	30.00	146,045.30
2008	64,952.16	47.00	1,381.96	30.89	42,682.96
2009	79,573.30	47.00	1,693.05	31.78	53,808.85
2011	170,969.39	47.00	3,637.66	33.60	122,223.59
2012	79,926.00	47.00	1,700.56	34.52	58,702.93
2013	16,092.23	47.00	342.39	35.45	12,136.76
2014	58,450.63	47.00	1,243.63	36.38	45,246.73
2016	134,440.98	47.00	2,860.45	38.27	109,470.84
2017	192,421.86	47.00	4,094.09	39.22	160,582.39
2018	202,105.13	47.00	4,300.12	40.18	172,781.73
2019	302,505.57	47.00	6,436.30	41.14	264,810.41
2020	1,411,244.70	47.00	30,026.56	42.11	1,264,425.39
2021	1,065,892.84	47.00	22,678.63	43.08	977,024.98
2022	1,077,994.36	47.00	22,936.11	44.06	1,010,487.66
2023	1,319,744.29	47.00	28,079.74	45.03	1,264,565.55
2024	2,095,111.46	47.00	44,576.95	46.02	2,051,252.81
2025	1,546,399.87	47.00	32,902.21	46.75	1,538,291.50

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *47* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	19,185,492.59	45.26	404,689.62	30.39	12,299,754.77

Composite Average Remaining Life ... 30.39 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
364.00 Flow Measuring Devices
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 15 **Survivor Curve:** L2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1960	34,668.83	0.00	0.00	0.00	0.00
1996	10,667.26	15.00	711.15	2.55	1,815.14
1998	11,518.92	15.00	767.93	2.97	2,280.46
2008	91,182.72	15.00	6,078.83	5.37	32,628.70
2010	110,716.42	15.00	7,381.08	5.85	43,163.85
2011	38,771.91	15.00	2,584.79	6.09	15,740.68
2013	175,978.36	15.00	11,731.86	6.62	77,647.17
2015	40,642.36	15.00	2,709.48	7.29	19,765.12
2016	442,654.44	15.00	29,510.22	7.73	228,085.35
2017	160,544.63	15.00	10,702.95	8.25	88,285.13
2018	43,907.33	15.00	2,927.15	8.86	25,946.19
2019	859,930.78	15.00	57,328.57	9.58	549,076.17
2020	72,459.17	15.00	4,830.60	10.37	50,095.52
2022	98,651.86	15.00	6,576.77	12.10	79,594.42
2023	407,174.77	15.00	27,144.92	13.03	353,819.57
2024	8,460.60	15.00	564.04	14.00	7,899.21
Total	2,607,930.36	14.06	171,550.33	9.19	1,575,842.68

Composite Average Remaining Life ... 9.19 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
371.00 Pumping Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 30 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1991	10,165.98	30.00	338.87	9.15	3,100.34
1996	865,081.19	30.00	28,835.98	11.21	323,289.57
1997	12,345.74	30.00	411.52	11.65	4,793.36
2001	72,361.53	30.00	2,412.05	13.49	32,536.49
2002	53,105.57	30.00	1,770.18	13.98	24,739.72
2004	392,031.81	30.00	13,067.70	14.99	195,827.20
2005	8,726.79	30.00	290.89	15.51	4,511.53
2006	400,949.09	30.00	13,364.94	16.05	214,472.89
2007	12,937.95	30.00	431.26	16.60	7,158.69
2008	17,844.66	30.00	594.82	17.17	10,210.80
2009	463,548.76	30.00	15,451.59	17.75	274,264.72
2010	701,547.03	30.00	23,384.85	18.35	429,102.72
2011	128,559.92	30.00	4,285.32	18.97	81,278.03
2012	1,573,089.45	30.00	52,436.21	19.60	1,027,919.47
2013	413,699.69	30.00	13,789.96	20.26	279,360.49
2014	92,722.35	30.00	3,090.74	20.93	64,699.27
2015	3,940,792.51	30.00	131,359.48	21.63	2,841,419.28
2016	1,201,307.47	30.00	40,043.50	22.35	894,955.00
2017	85,221.90	30.00	2,840.72	23.09	65,595.69
2018	1,331,946.38	30.00	44,398.12	23.86	1,059,272.31
2019	444,357.51	30.00	14,811.89	24.65	365,110.42
2020	1,329,556.93	30.00	44,318.47	25.47	1,128,664.19
2021	320,418.37	30.00	10,680.59	26.31	281,042.43
2022	640,944.19	30.00	21,364.76	27.19	580,841.29
2023	2,438,935.71	30.00	81,297.69	28.09	2,283,652.79
2024	622,970.96	30.00	20,765.66	29.03	602,764.14
2025	366,718.64	30.00	12,223.93	29.75	363,685.70

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
371.00 Pumping Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *30* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	17,941,888.08	30.00	598,061.68	22.48	13,444,268.54

Composite Average Remaining Life ... 22.48 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
380.00 Treatment Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S1.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1960	266,178.48	35.00	7,605.10	1.36	10,309.95
1968	473,334.30	35.00	13,523.84	3.36	45,401.53
1975	15,036,892.82	35.00	429,625.48	5.18	2,225,650.09
1987	1,471,100.21	35.00	42,031.43	8.92	374,948.12
1988	442,565.45	35.00	12,644.73	9.29	117,447.14
1990	26,054.86	35.00	744.42	10.06	7,487.24
1994	141,818.41	35.00	4,051.95	11.75	47,611.25
1995	5,111,106.19	35.00	146,031.60	12.21	1,782,941.17
1996	35,212.21	35.00	1,006.06	12.68	12,760.97
1997	1,947.81	35.00	55.65	13.18	733.22
1999	1,062,894.00	35.00	30,368.40	14.21	431,511.24
2001	1,637,450.09	35.00	46,784.29	15.32	716,526.77
2002	197,596.78	35.00	5,645.62	15.90	89,759.32
2003	91,094.17	35.00	2,602.69	16.50	42,951.19
2004	3,939,642.25	35.00	112,561.20	17.13	1,927,854.79
2006	11,515.96	35.00	329.03	18.44	6,067.54
2007	294,504.54	35.00	8,414.41	19.13	160,974.14
2008	1,126,803.13	35.00	32,194.37	19.84	638,789.66
2009	55,372.86	35.00	1,582.08	20.58	32,554.90
2010	24,214.50	35.00	691.84	21.34	14,760.82
2012	120,670.02	35.00	3,447.71	22.92	79,020.08
2013	49,252.10	35.00	1,407.20	23.74	33,413.65
2014	29,087.99	35.00	831.09	24.59	20,437.50
2015	11,568,792.25	35.00	330,536.90	25.46	8,414,623.89
2016	4,105,660.46	35.00	117,304.58	26.35	3,090,407.27
2017	2,377,540.48	35.00	67,929.72	27.25	1,851,194.88
2018	1,075,745.89	35.00	30,735.59	28.18	865,994.20

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
380.00 Treatment Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2019	167,428.01	35.00	4,783.66	29.12	139,279.98
2020	9,823,261.02	35.00	280,664.58	30.07	8,439,765.03
2021	2,379,170.70	35.00	67,976.30	31.04	2,109,882.69
2022	15,610,807.82	35.00	446,023.05	32.02	14,280,333.19
2023	3,973,362.72	35.00	113,524.64	33.01	3,746,940.10
2024	841,226.19	35.00	24,035.03	34.00	817,209.97
2025	152,990.22	35.00	4,371.15	34.75	151,897.31
Total	83,722,294.89	35.00	2,392,065.40	22.04	52,727,440.76

Composite Average Remaining Life ... 22.04 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
381.00 Plant Sewers

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1995	874,635.54	50.00	17,492.70	22.88	400,151.04
1999	17,293.00	50.00	345.86	26.07	9,017.12
2002	27,056.54	50.00	541.13	28.58	15,463.00
2003	603,123.96	50.00	12,062.47	29.43	354,987.37
2004	48,787.57	50.00	975.75	30.29	29,557.39
2016	5,448.80	50.00	108.98	41.26	4,496.33
Total	1,576,345.41	50.00	31,526.89	25.81	813,672.25

Composite Average Remaining Life ... 25.81 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
382.00 Outfall Sewer Lines

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2017	12,867.84	50.00	257.36	42.22	10,864.34
2018	174,944.46	50.00	3,498.89	43.18	151,065.02
2023	311,592.01	50.00	6,231.84	48.03	299,343.43
Total	499,404.31	50.00	9,988.08	46.18	461,272.79

Composite Average Remaining Life ... 46.18 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
389.10 Other Plant - Intangibles

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2003	732.57	20.00	36.63	4.33	158.78
2013	4,140,223.53	20.00	207,011.19	9.25	1,915,326.26
2019	2,529.74	20.00	126.49	14.11	1,784.50
2020	6,201,677.71	20.00	310,083.91	15.05	4,667,523.25
2022	430,060.25	20.00	21,503.01	17.01	365,683.92
2024	38,327.02	20.00	1,916.35	19.00	36,410.76
Total	10,813,550.82	20.00	540,677.58	12.92	6,986,887.47

Composite Average Remaining Life ... 12.92 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
390.00 Office Furniture

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 20 **Survivor Curve:** SQ

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2008	12,008.00	20.00	600.40	3.00	1,801.20
2009	12,846.21	20.00	642.31	4.00	2,569.24
2010	44,755.08	20.00	2,237.75	5.00	11,188.77
2011	17,379.55	20.00	868.98	6.00	5,213.87
2012	39,909.19	20.00	1,995.46	7.00	13,968.22
2013	4,929.42	20.00	246.47	8.00	1,971.77
2014	23,508.40	20.00	1,175.42	9.00	10,578.78
2015	19,770.58	20.00	988.53	10.00	9,885.29
2016	717,221.40	20.00	35,861.07	11.00	394,471.77
2017	200,445.74	20.00	10,022.29	12.00	120,267.44
2018	57,523.48	20.00	2,876.17	13.00	37,390.26
2019	218,312.76	20.00	10,915.64	14.00	152,818.93
2020	417,250.76	20.00	20,862.54	15.00	312,938.07
2021	305,742.77	20.00	15,287.14	16.00	244,594.22
2022	247,326.91	20.00	12,366.35	17.00	210,227.87
2023	891,711.99	20.00	44,585.60	18.00	802,540.79
2024	584,267.19	20.00	29,213.36	19.00	555,053.83
2025	379,962.73	20.00	18,998.14	19.75	375,213.20
Total	4,194,872.16	20.00	209,743.61	15.56	3,262,693.52

Composite Average Remaining Life ... 15.56 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
391.00 Transportation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *14* ***Survivor Curve:*** *L4*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1995	13,240.08	0.00	0.00	0.00	0.00
2003	25,581.36	14.00	1,827.20	1.32	2,416.49
2004	6,788.48	14.00	484.88	1.49	722.18
2006	99,532.58	14.00	7,109.31	1.87	13,300.83
2007	154,794.96	14.00	11,056.53	2.09	23,053.35
2008	150,540.49	14.00	10,752.65	2.30	24,726.40
2009	220,230.56	14.00	15,730.40	2.49	39,180.61
2010	253,581.52	14.00	18,112.56	2.64	47,807.93
2011	91,691.79	14.00	6,549.27	2.78	18,214.73
2012	283,568.72	14.00	20,254.45	2.99	60,620.64
2013	590,227.54	14.00	42,158.15	3.35	141,270.51
2014	555,945.44	14.00	39,709.49	3.89	154,606.82
2015	697,815.92	14.00	49,842.86	4.58	228,470.49
2016	185,576.14	14.00	13,255.14	5.36	71,062.42
2017	174,855.63	14.00	12,489.40	6.20	77,412.31
2018	1,449,339.70	14.00	103,521.92	7.09	733,911.75
2019	840,388.91	14.00	60,026.42	8.03	481,979.55
2021	89,577.43	14.00	6,398.24	10.00	63,985.69
2022	869,888.42	14.00	62,133.48	11.00	683,487.99
2023	2,612,625.59	14.00	186,611.88	12.00	2,239,401.83
2024	815,335.23	14.00	58,236.91	13.00	757,098.32
2025	244,677.74	14.00	17,476.59	13.75	240,308.59
Total	10,425,804.23	13.36	743,737.72	8.21	6,103,039.42

Composite Average Remaining Life ... 8.21 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
395.00 Power Operated Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 22 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2007	13,810.00	22.00	627.72	8.21	5,152.21
2008	48,270.00	22.00	2,194.05	8.80	19,313.87
2009	246,063.00	22.00	11,184.48	9.42	105,379.18
2010	440,226.19	22.00	20,009.92	10.07	201,417.05
2011	45,902.54	22.00	2,086.44	10.73	22,391.57
2012	282,853.13	22.00	12,856.73	11.42	146,838.03
2013	157,521.76	22.00	7,159.95	12.13	86,853.19
2014	2,683.87	22.00	121.99	12.86	1,568.94
2015	7,815.84	22.00	355.26	13.61	4,835.31
2016	15,995.00	22.00	727.03	14.38	10,453.61
2017	29,847.33	22.00	1,356.67	15.16	20,573.19
2018	44,891.21	22.00	2,040.47	15.97	32,580.15
2020	9,692.97	22.00	440.58	17.62	7,763.25
2021	563,825.38	22.00	25,627.96	18.47	473,349.22
2023	271,216.17	22.00	12,327.79	20.21	249,145.33
2024	129,069.73	22.00	5,866.70	21.10	123,781.73
Total	2,309,684.12	22.00	104,983.75	14.40	1,511,395.83

Composite Average Remaining Life ... 14.40 Years

PAWC - Water Operations
Water Operations
303.35 Waste Handling

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *100* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1991	70,430.00	100.00	704.30	66.76	47,019.62
1992	84,595.17	100.00	845.95	67.66	57,236.91
Total	155,025.17	100.00	1,550.25	67.25	104,256.53

Composite Average Remaining Life ... 67.25 Years

PAWC - Water Operations
Water Operations
304.15 Other Water Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1905	20,000.00	0.00	0.00	0.00	0.00
1962	3,046.99	50.00	60.94	12.45	758.45
1965	40,502.68	50.00	810.05	13.57	10,990.89
1966	20,825.96	50.00	416.52	13.95	5,809.91
1967	270.30	50.00	5.41	14.33	77.48
1968	13,568.76	50.00	271.37	14.72	3,994.79
1969	631.00	50.00	12.62	15.11	190.71
1970	1,609.62	50.00	32.19	15.51	499.22
1971	11,357.68	50.00	227.15	15.91	3,613.24
1972	19,891.30	50.00	397.83	16.31	6,488.55
1973	102.13	50.00	2.04	16.72	34.15
1974	11,058.14	50.00	221.16	17.13	3,788.49
1975	3,360.08	50.00	67.20	17.55	1,179.16
1977	2,198.00	50.00	43.96	18.39	808.62
1978	1,550.08	50.00	31.00	18.83	583.63
1979	66,916.71	50.00	1,338.33	19.26	25,779.43
1980	50,476.77	50.00	1,009.53	19.70	19,892.15
1981	175,270.37	50.00	3,505.40	20.15	70,640.10
1982	5,146.13	50.00	102.92	20.60	2,120.72
1983	23,321.00	50.00	466.42	21.06	9,824.70
1984	402.00	50.00	8.04	21.53	173.10
1985	61,463.99	50.00	1,229.28	22.00	27,045.11
1986	65,149.35	50.00	1,302.99	22.48	29,289.53
1987	194.55	50.00	3.89	22.96	89.35
1988	5,314.89	50.00	106.30	23.46	2,493.21
1989	105,571.50	50.00	2,111.43	23.95	50,576.54
1990	167,225.90	50.00	3,344.51	24.46	81,805.97

PAWC - Water Operations
Water Operations
304.15 Other Water Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1991	515,689.12	50.00	10,313.77	24.97	257,569.36
1992	303,462.34	50.00	6,069.24	25.49	154,733.73
1993	140,489.27	50.00	2,809.78	26.02	73,122.35
1994	1,280,944.74	50.00	25,618.87	26.56	680,487.08
1995	208,091.31	50.00	4,161.82	27.11	112,819.72
1996	372,613.59	50.00	7,452.26	27.66	206,154.78
1997	26,226.70	50.00	524.53	28.23	14,806.31
1998	254,653.48	50.00	5,093.06	28.80	146,686.14
1999	142,608.54	50.00	2,852.17	29.38	83,809.17
2000	129,853.55	50.00	2,597.07	29.98	77,853.71
2001	1,161.48	50.00	23.23	30.58	710.38
2002	707,111.64	50.00	14,142.22	31.19	441,164.75
2003	1,932,009.71	50.00	38,640.15	31.82	1,229,517.04
2004	254,159.61	50.00	5,083.19	32.46	164,978.09
2005	974,587.19	50.00	19,491.72	33.10	645,236.66
2006	499,272.53	50.00	9,985.44	33.76	337,132.57
2007	1,551,026.95	50.00	31,020.51	34.43	1,068,156.19
2008	1,232,651.52	50.00	24,653.00	35.12	865,760.53
2009	228,603.44	50.00	4,572.06	35.81	163,747.03
2010	11,303,442.33	50.00	226,068.61	36.52	8,257,091.86
2011	250,029.38	50.00	5,000.58	37.25	186,263.28
2012	328,899.24	50.00	6,577.98	37.99	249,870.00
2013	2,948,687.90	50.00	58,973.70	38.74	2,284,502.10
2014	1,358,349.72	50.00	27,166.97	39.50	1,073,206.41
2015	863,430.65	50.00	17,268.59	40.29	695,675.09
2016	1,876,787.12	50.00	37,535.70	41.08	1,542,057.55
2017	1,914,619.65	50.00	38,292.35	41.90	1,604,260.07

PAWC - Water Operations
Water Operations
304.15 Other Water Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2018	17,474,447.65	50.00	349,488.58	42.72	14,931,489.26
2019	3,311,981.47	50.00	66,239.56	43.57	2,886,001.10
2020	5,258,970.84	50.00	105,179.30	44.43	4,673,267.91
2021	5,208,379.09	50.00	104,167.47	45.31	4,719,949.84
2022	14,305,441.54	50.00	286,108.53	46.21	13,220,747.15
2023	22,362,828.43	50.00	447,256.09	47.13	21,077,018.47
2024	12,035,825.08	50.00	240,716.24	48.06	11,569,068.67
2025	11,014,913.92	50.00	220,298.04	49.02	10,798,561.88
Total	123,448,676.60	49.19	2,468,570.90	43.28	106,852,023.41

Composite Average Remaining Life ... 43.28 Years

PAWC - Water Operations
Water Operations
304.21 Pumping Structures - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1962	15,878.73	75.00	211.72	31.83	6,738.04
1970	6,710.06	75.00	89.47	35.68	3,191.99
1990	1,277,952.17	75.00	17,039.37	46.79	797,293.78
1993	1,121,355.16	75.00	14,951.41	48.68	727,872.18
1994	88,730.90	75.00	1,183.08	49.33	58,357.56
1995	1,715,454.62	75.00	22,872.74	49.98	1,143,226.96
1997	4,494,042.69	75.00	59,920.59	51.31	3,074,580.01
1998	79,054.11	75.00	1,054.06	51.99	54,800.94
1999	4,650,691.72	75.00	62,009.25	52.68	3,266,400.20
2001	34,327.61	75.00	457.70	54.07	24,750.13
2003	2,358,291.93	75.00	31,443.90	55.51	1,745,335.56
2004	146,294.31	75.00	1,950.59	56.24	109,699.34
2005	11,236.00	75.00	149.81	56.98	8,536.09
2006	10,710.36	75.00	142.80	57.73	8,243.57
2007	29,310.29	75.00	390.80	58.49	22,857.13
2008	97,884.43	75.00	1,305.13	59.26	77,336.09
2012	23,869,584.52	75.00	318,261.25	62.43	19,869,572.47
2013	8,780,477.29	75.00	117,073.08	63.25	7,405,419.34
2014	3,788,366.02	75.00	50,511.57	64.09	3,237,053.83
2015	114,587.76	75.00	1,527.84	64.93	99,196.90
2017	3,006.40	75.00	40.09	66.65	2,671.56
2018	8,073.07	75.00	107.64	67.52	7,268.14
2019	130,266.72	75.00	1,736.89	68.41	118,826.19
2021	4,068,632.96	75.00	54,248.46	70.22	3,809,573.30
2023	1,168.86	75.00	15.58	72.09	1,123.53

PAWC - Water Operations
Water Operations
304.21 Pumping Structures - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	56,902,088.69	75.00	758,694.81	60.21	45,679,924.86

Composite Average Remaining Life ... 60.21 Years

PAWC - Water Operations
Water Operations
304.22 Pumping Structures - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1901	5,841.82	0.00	0.00	0.00	0.00
1904	1,656.55	0.00	0.00	0.00	0.00
1905	4,576.49	0.00	0.00	0.00	0.00
1906	5,412.26	0.00	0.00	0.00	0.00
1908	6,553.43	0.00	0.00	0.00	0.00
1909	7,477.68	0.00	0.00	0.00	0.00
1910	12,025.18	0.00	0.00	0.00	0.00
1911	14,042.67	0.00	0.00	0.00	0.00
1912	1,186.63	0.00	0.00	0.00	0.00
1915	1,030.51	0.00	0.00	0.00	0.00
1918	30,729.07	0.00	0.00	0.00	0.00
1919	3,285.16	0.00	0.00	0.00	0.00
1920	5,065.81	0.00	0.00	0.00	0.00
1921	589.43	0.00	0.00	0.00	0.00
1922	10,583.50	0.00	0.00	0.00	0.00
1923	7,456.73	0.00	0.00	0.00	0.00
1924	32,859.61	0.00	0.00	0.00	0.00
1925	142.50	0.00	0.00	0.00	0.00
1926	487.26	0.00	0.00	0.00	0.00
1927	863.05	0.00	0.00	0.00	0.00
1928	3,516.76	0.00	0.00	0.00	0.00
1929	12,727.23	0.00	0.00	0.00	0.00
1930	4,043.81	0.00	0.00	0.00	0.00
1931	7,583.10	0.00	0.00	0.00	0.00
1932	4,091.51	0.00	0.00	0.00	0.00
1933	31.03	0.00	0.00	0.00	0.00
1934	205.04	55.00	3.73	0.50	1.86

PAWC - Water Operations
Water Operations
304.22 Pumping Structures - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1935	2,181.02	55.00	39.65	0.62	24.75
1936	1,208.47	55.00	21.97	0.84	18.43
1937	934.92	55.00	17.00	1.00	16.99
1938	3,088.23	55.00	56.15	1.21	68.05
1939	2,936.64	55.00	53.39	1.44	76.95
1940	256.37	55.00	4.66	1.68	7.83
1941	426.22	55.00	7.75	1.94	15.05
1942	3,960.66	55.00	72.01	2.17	156.35
1943	65.66	55.00	1.19	2.41	2.88
1944	632.02	55.00	11.49	2.66	30.58
1945	1,391.94	55.00	25.31	2.91	73.76
1946	458.99	55.00	8.35	3.17	26.46
1947	9,849.69	55.00	179.09	3.44	615.78
1948	69,981.98	55.00	1,272.40	3.69	4,694.16
1949	2,182.09	55.00	39.67	3.94	156.43
1950	502.83	55.00	9.14	4.20	38.38
1951	30,036.64	55.00	546.12	4.45	2,432.88
1952	11,892.63	55.00	216.23	4.72	1,021.07
1953	28,685.21	55.00	521.55	4.98	2,595.35
1954	150,370.41	55.00	2,734.01	5.23	14,310.67
1955	122,038.47	55.00	2,218.88	5.50	12,197.21
1956	26,864.73	55.00	488.45	5.77	2,815.96
1957	15,965.08	55.00	290.27	6.04	1,753.12
1958	14,351.02	55.00	260.93	6.33	1,650.50
1959	28,185.43	55.00	512.46	6.61	3,388.77
1960	22,982.96	55.00	417.87	6.91	2,887.69
1961	77,621.92	55.00	1,411.31	7.22	10,189.12

PAWC - Water Operations
Water Operations
304.22 Pumping Structures - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1962	764.70	55.00	13.90	7.54	104.85
1963	49,553.58	55.00	900.97	7.88	7,097.20
1964	382,895.62	55.00	6,961.74	8.22	57,254.02
1965	28,459.92	55.00	517.45	8.59	4,442.90
1966	68,093.98	55.00	1,238.07	8.96	11,097.69
1967	97,629.18	55.00	1,775.08	9.36	16,609.94
1968	21,632.31	55.00	393.31	9.77	3,841.63
1969	115,270.36	55.00	2,095.82	10.19	21,362.76
1970	58,066.48	55.00	1,055.75	10.64	11,230.06
1971	131,023.64	55.00	2,382.25	11.10	26,438.89
1972	103,200.73	55.00	1,876.38	11.58	21,722.60
1973	58,897.24	55.00	1,070.86	12.07	12,928.18
1974	124,265.86	55.00	2,259.38	12.58	28,430.27
1975	103,208.46	55.00	1,876.52	13.11	24,609.05
1976	48,283.97	55.00	877.89	13.66	11,993.71
1977	31,616.36	55.00	574.84	14.23	8,177.80
1978	90,978.06	55.00	1,654.15	14.81	24,491.94
1979	66,769.29	55.00	1,213.99	15.40	18,698.22
1980	120,180.98	55.00	2,185.11	16.01	34,986.41
1981	248,439.56	55.00	4,517.08	16.64	75,157.76
1982	213,685.47	55.00	3,885.19	17.28	67,136.51
1983	147,087.28	55.00	2,674.31	17.94	47,965.09
1984	136,432.53	55.00	2,480.59	18.60	46,149.42
1985	953,727.67	55.00	17,340.50	19.28	334,382.30
1986	216,373.69	55.00	3,934.07	19.98	78,597.37
1987	1,117,433.37	55.00	20,316.97	20.69	420,276.36
1988	354,873.27	55.00	6,452.24	21.40	138,109.59

PAWC - Water Operations
Water Operations
304.22 Pumping Structures - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1989	819,879.51	55.00	14,906.90	22.14	329,965.53
1990	1,926,625.32	55.00	35,029.55	22.88	801,343.60
1991	294,397.18	55.00	5,352.68	23.63	126,463.79
1992	1,848,476.34	55.00	33,608.66	24.39	819,695.09
1993	1,463,314.62	55.00	26,605.72	25.16	669,468.41
1994	243,427.51	55.00	4,425.95	25.95	114,833.95
1995	637,438.12	55.00	11,589.78	26.74	309,890.21
1996	992,670.64	55.00	18,048.55	27.54	497,029.16
1997	754,369.67	55.00	13,715.81	28.35	388,852.49
1998	624,669.83	55.00	11,357.63	29.17	331,324.06
1999	660,921.33	55.00	12,016.75	30.00	360,527.26
2000	1,706,138.15	55.00	31,020.69	30.84	956,705.93
2001	794,513.61	55.00	14,445.70	31.69	457,759.40
2002	225,626.47	55.00	4,102.30	32.54	133,500.25
2003	3,783,308.96	55.00	68,787.42	33.41	2,298,010.82
2004	336,158.01	55.00	6,111.96	34.28	209,518.11
2005	304,164.60	55.00	5,530.26	35.16	194,445.89
2006	3,479,458.76	55.00	63,262.88	36.05	2,280,511.61
2007	3,816,541.06	55.00	69,391.64	36.94	2,563,470.55
2008	1,100,189.00	55.00	20,003.43	37.84	757,028.34
2009	18,910.36	55.00	343.82	38.75	13,324.77
2010	215,150.60	55.00	3,911.83	39.67	155,185.12
2011	497,543.40	55.00	9,046.24	40.59	367,215.87
2012	574,162.28	55.00	10,439.31	41.52	433,457.68
2013	3,315,957.15	55.00	60,290.12	42.46	2,559,625.38
2014	1,855,342.43	55.00	33,733.49	43.40	1,463,873.61
2015	816,045.29	55.00	14,837.18	44.34	657,888.36

PAWC - Water Operations
Water Operations
304.22 Pumping Structures - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2016	3,078,578.01	55.00	55,974.14	45.29	2,535,103.41
2017	596,454.65	55.00	10,844.63	46.25	501,513.22
2018	2,924,830.20	55.00	53,178.72	47.20	2,510,228.96
2019	142,272.05	55.00	2,586.76	48.17	124,596.61
2020	2,322,098.42	55.00	42,219.96	49.13	2,074,436.70
2021	6,088,150.85	55.00	110,693.63	50.10	5,546,250.98
2022	782,958.60	55.00	14,235.61	51.08	727,129.25
2023	9,740,769.56	55.00	177,104.87	52.05	9,219,163.18
2024	2,908,519.77	55.00	52,882.17	53.03	2,804,543.81
2025	13,936,240.07	55.00	253,386.14	54.02	13,686,858.44
2026	1,139,080.99	55.00	20,710.56	54.75	1,133,983.32
Total	82,667,312.98	42.98	1,499,698.91	41.83	62,729,282.67

Composite Average Remaining Life ... 41.83 Years

PAWC - Water Operations
Water Operations
304.31 Purification Buildings - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1900	690.28	0.00	0.00	0.00	0.00
1906	871.05	0.00	0.00	0.00	0.00
1910	955.96	0.00	0.00	0.00	0.00
1921	7,550.49	55.00	137.28	1.36	186.15
1924	65,855.77	55.00	1,197.38	2.16	2,581.96
1928	713.20	55.00	12.97	3.25	42.19
1930	44.14	55.00	0.80	3.82	3.07
1938	1,127.93	55.00	20.51	6.14	125.86
1951	429.84	55.00	7.82	10.23	79.98
1953	7,347.67	55.00	133.59	10.91	1,457.32
1954	63,503.27	55.00	1,154.60	11.25	12,988.59
1955	11,789.91	55.00	214.36	11.59	2,485.28
1958	1,894.04	55.00	34.44	12.65	435.66
1960	45.00	55.00	0.82	13.37	10.94
1961	26,097.98	55.00	474.51	13.74	6,519.62
1962	893.00	55.00	16.24	14.11	229.11
1963	541.00	55.00	9.84	14.49	142.50
1964	398.22	55.00	7.24	14.87	107.64
1965	321.42	55.00	5.84	15.25	89.13
1966	438.31	55.00	7.97	15.64	124.64
1967	22,777.88	55.00	414.14	16.03	6,640.37
1969	89,590.44	55.00	1,628.92	16.84	27,425.38
1970	358.00	55.00	6.51	17.25	112.25
1972	2,625.00	55.00	47.73	18.08	862.87
1973	6,319,882.94	55.00	114,906.97	18.50	2,126,297.52
1975	69,470.87	55.00	1,263.11	19.37	24,469.67
1976	3,042,618.84	55.00	55,320.35	19.82	1,096,228.33

PAWC - Water Operations
Water Operations
304.31 Purification Buildings - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1977	49,822.29	55.00	905.86	20.27	18,357.95
1978	89.00	55.00	1.62	20.72	33.53
1979	16,962.81	55.00	308.41	21.19	6,533.80
1980	10,568.86	55.00	192.16	21.65	4,161.14
1981	5,396.00	55.00	98.11	22.13	2,171.33
1982	364.13	55.00	6.62	22.62	149.73
1983	56,269.13	55.00	1,023.08	23.11	23,642.02
1984	44,668.70	55.00	812.16	23.61	19,174.13
1985	129,729.26	55.00	2,358.71	24.12	56,882.23
1986	56,314.64	55.00	1,023.90	24.63	25,221.36
1987	44,970.19	55.00	817.64	25.16	20,570.11
1988	6,104,219.17	55.00	110,985.81	25.69	2,851,447.61
1989	354,686.26	55.00	6,448.84	26.24	169,186.13
1990	18,290,076.26	55.00	332,546.86	26.79	8,908,107.08
1991	463,554.17	55.00	8,428.26	27.35	230,497.56
1992	10,159,569.23	55.00	184,719.45	27.92	5,157,480.22
1993	17,607,220.02	55.00	320,131.29	28.50	9,124,761.88
1994	594,840.73	55.00	10,815.29	29.10	314,683.44
1995	4,351,649.57	55.00	79,120.91	29.70	2,349,880.34
1996	404,065.68	55.00	7,346.65	30.31	222,696.19
1997	5,491,313.41	55.00	99,842.07	30.94	3,089,055.42
1998	141,383.91	55.00	2,570.62	31.58	81,174.53
1999	5,186,983.45	55.00	94,308.80	32.23	3,039,403.05
2000	2,110,656.29	55.00	38,375.57	32.89	1,262,202.96
2001	5,794,842.92	55.00	105,360.79	33.57	3,536,530.92
2002	747,232.76	55.00	13,586.05	34.25	465,350.16
2003	10,628,722.26	55.00	193,249.51	34.95	6,754,858.85

PAWC - Water Operations
Water Operations
304.31 Purification Buildings - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2004	1,366,240.03	55.00	24,840.73	35.67	886,057.39
2005	1,140,362.23	55.00	20,733.86	36.40	754,685.71
2006	16,562,900.56	55.00	301,143.67	37.14	11,185,030.97
2007	3,790,762.44	55.00	68,922.96	37.90	2,611,957.17
2008	1,021,974.93	55.00	18,581.36	38.67	718,534.00
2009	444,258.49	55.00	8,077.43	39.46	318,711.76
2010	4,958,956.40	55.00	90,162.85	40.26	3,629,901.12
2011	13,669,205.90	55.00	248,531.03	41.08	10,208,818.17
2012	49,857,456.27	55.00	906,499.27	41.91	37,990,405.26
2013	928,710.06	55.00	16,885.64	42.75	721,934.68
2014	2,458,292.83	55.00	44,696.24	43.62	1,949,552.31
2015	356,941.13	55.00	6,489.84	44.50	288,773.23
2016	1,590,034.14	55.00	28,909.71	45.39	1,312,192.46
2017	8,292,662.96	55.00	150,775.70	46.30	6,980,449.38
2018	38,663,786.79	55.00	702,977.99	47.22	33,192,160.54
2019	1,204,755.23	55.00	21,904.64	48.15	1,054,767.53
2020	256,427.12	55.00	4,662.31	49.10	228,927.34
2021	25,682,645.88	55.00	466,957.23	50.06	23,377,097.10
2022	22,776,043.45	55.00	414,109.91	51.03	21,133,861.61
2023	43,116,860.61	55.00	783,942.97	52.02	40,777,447.69
2024	4,423,364.16	55.00	80,424.81	53.00	4,262,878.86
2025	22,092,529.63	55.00	401,682.38	54.00	21,691,082.64
2026	1,566,436.37	55.00	28,480.66	54.75	1,559,317.98
Total	364,806,611.16	52.86	6,632,802.15	41.89	277,878,404.65

Composite Average Remaining Life ... 41.89 Years

PAWC - Water Operations
Water Operations
304.32 Purification Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 60 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1949	446.62	60.00	7.44	6.12	45.52
1951	2,577.02	60.00	42.95	6.66	286.24
1952	300.47	60.00	5.01	6.95	34.78
1953	974.80	60.00	16.25	7.24	117.64
1954	520.58	60.00	8.68	7.54	65.40
1955	39.08	60.00	0.65	7.85	5.11
1956	36.69	60.00	0.61	8.17	4.99
1957	205.83	60.00	3.43	8.50	29.15
1958	544.82	60.00	9.08	8.84	80.28
1959	50.43	60.00	0.84	9.20	7.73
1960	2,017.84	60.00	33.63	9.57	321.83
1961	243.49	60.00	4.06	9.95	40.40
1962	344.32	60.00	5.74	10.35	59.42
1963	536.36	60.00	8.94	10.77	96.27
1964	159.18	60.00	2.65	11.20	29.71
1965	137.84	60.00	2.30	11.64	26.75
1966	380.32	60.00	6.34	12.11	76.74
1967	15.71	60.00	0.26	12.58	3.30
1968	17.41	60.00	0.29	13.08	3.79
1969	6,762.47	60.00	112.71	13.59	1,531.37
1970	138.48	60.00	2.31	14.11	32.57
1971	1,630.35	60.00	27.17	14.65	398.12
1972	962,126.16	60.00	16,035.43	15.21	243,883.24
1973	8,355.39	60.00	139.26	15.78	2,197.60
1974	7,440.58	60.00	124.01	16.36	2,029.37
1975	201,596.47	60.00	3,359.94	16.97	57,006.74
1976	35,465.34	60.00	591.09	17.58	10,392.41

PAWC - Water Operations
Water Operations
304.32 Purification Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 60 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1977	1,228.15	60.00	20.47	18.21	372.70
1978	2,600.12	60.00	43.34	18.85	816.90
1979	9,855.41	60.00	164.26	19.51	3,203.97
1980	629.29	60.00	10.49	20.17	211.55
1981	22,803.05	60.00	380.05	20.85	7,924.45
1982	374,615.12	60.00	6,243.58	21.54	134,501.81
1983	79,765.79	60.00	1,329.43	22.24	29,569.79
1984	17,275.34	60.00	287.92	22.96	6,609.80
1985	412,588.82	60.00	6,876.48	23.68	162,843.79
1986	15,368.94	60.00	256.15	24.41	6,253.51
1987	24,135.30	60.00	402.25	25.16	10,120.36
1988	973,270.83	60.00	16,221.18	25.91	420,351.28
1989	2,262,509.73	60.00	37,708.49	26.68	1,005,901.18
1990	912,456.95	60.00	15,207.61	27.45	417,448.62
1991	1,035,512.97	60.00	17,258.55	28.23	487,256.75
1992	10,771.18	60.00	179.52	29.02	5,210.11
1993	1,529.61	60.00	25.49	29.82	760.31
1994	905,652.58	60.00	15,094.21	30.63	462,380.16
1995	1,301,863.40	60.00	21,697.72	31.45	682,366.93
1996	484,596.19	60.00	8,076.60	32.28	260,675.85
1997	1,619,429.21	60.00	26,990.48	33.11	893,648.18
1998	591,712.08	60.00	9,861.87	33.95	334,813.61
1999	1,757,798.37	60.00	29,296.63	34.80	1,019,554.00
2000	12,737.39	60.00	212.29	35.66	7,570.05
2001	2,026,207.14	60.00	33,770.11	36.52	1,233,384.10
2002	320,694.02	60.00	5,344.90	37.40	199,879.61
2003	406,414.68	60.00	6,773.58	38.28	259,268.62

PAWC - Water Operations
Water Operations
304.32 Purification Buildings - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *60* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2004	325,042.96	60.00	5,417.38	39.16	212,156.45
2005	87,900.88	60.00	1,465.01	40.06	58,683.46
2006	18,595.92	60.00	309.93	40.96	12,693.95
2007	247,516.17	60.00	4,125.27	41.86	172,695.87
2008	104,354.23	60.00	1,739.24	42.78	74,398.52
2009	752,094.33	60.00	12,534.90	43.70	547,721.73
2010	704,043.34	60.00	11,734.05	44.62	523,568.04
2011	2,017,071.77	60.00	33,617.86	45.55	1,531,302.78
2012	2,624,053.64	60.00	43,734.22	46.49	2,033,027.68
2013	3,123,751.82	60.00	52,062.52	47.43	2,469,102.38
2014	3,755,244.64	60.00	62,587.40	48.37	3,027,443.71
2015	426,184.87	60.00	7,103.08	49.32	350,334.20
2016	1,488,060.01	60.00	24,801.00	50.27	1,246,868.17
2017	2,198,162.59	60.00	36,636.04	51.23	1,876,990.33
2018	1,947,409.34	60.00	32,456.82	52.20	1,694,100.80
2019	1,886,357.37	60.00	31,439.28	53.16	1,671,328.87
2020	3,467,648.65	60.00	57,794.13	54.13	3,128,376.51
2021	2,982,556.47	60.00	49,709.27	55.10	2,739,064.64
2022	7,493,562.12	60.00	124,892.68	56.08	7,003,492.72
2023	10,965,940.51	60.00	182,765.64	57.05	10,427,471.44
2024	1,822,402.35	60.00	30,373.37	58.03	1,762,680.97
2025	9,732,611.37	60.00	162,210.16	59.02	9,572,932.42
2026	1,152,992.81	60.00	19,216.54	59.75	1,148,262.89
Total	76,140,643.87	60.00	1,269,010.50	48.59	61,656,403.02

Composite Average Remaining Life ... 48.59 Years

PAWC - Water Operations
Water Operations
304.36 Waste Handling Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1991	10,728,292.17	55.00	195,059.87	27.35	5,334,533.26
1998	68,969.00	55.00	1,253.98	31.58	39,598.04
2000	122,317.58	55.00	2,223.96	32.89	73,147.68
2001	25,833.98	55.00	469.71	33.57	15,766.20
2003	4,063.71	55.00	73.89	34.95	2,582.60
2007	19,061.38	55.00	346.57	37.90	13,133.90
2010	29,348.23	55.00	533.60	40.26	21,482.58
2012	197,525.13	55.00	3,591.37	41.91	150,510.28
2013	129,535.29	55.00	2,355.19	42.75	100,694.53
2014	18,080.06	55.00	328.73	43.62	14,338.42
2016	167,667.01	55.00	3,048.49	45.39	138,368.97
2021	13,550,479.62	55.00	246,372.37	50.06	12,334,043.75
2023	3,380,408.50	55.00	61,461.98	52.02	3,196,996.00
Total	28,441,581.66	55.00	517,119.70	41.45	21,435,196.21

Composite Average Remaining Life ... 41.45 Years

PAWC - Water Operations
Water Operations
304.60 Office Buildings - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1986	1,193,234.40	55.00	21,695.16	28.92	627,485.57
1987	1,333,438.47	55.00	24,244.32	29.42	713,319.82
1988	66,300.97	55.00	1,205.47	29.93	36,074.56
1989	673,796.52	55.00	12,250.84	30.43	372,837.21
1990	53,021.27	55.00	964.02	30.95	29,832.69
1991	4,089.45	55.00	74.35	31.46	2,339.36
1992	18,335.02	55.00	333.36	31.98	10,662.58
1994	2,429.06	55.00	44.16	33.04	1,459.40
1995	69,619.62	55.00	1,265.81	33.58	42,508.85
1996	25,231.49	55.00	458.75	34.12	15,654.87
1997	109,992.96	55.00	1,999.87	34.67	69,344.10
1998	1,013.00	55.00	18.42	35.23	648.87
2001	62,892.80	55.00	1,143.50	36.94	42,235.37
2002	10,259.32	55.00	186.53	37.52	6,997.99
2003	73,531.37	55.00	1,336.93	38.11	50,945.22
2005	152,175.13	55.00	2,766.82	39.31	108,761.47
2006	268,253.78	55.00	4,877.34	39.92	194,718.85
2007	23,101.69	55.00	420.03	40.54	17,029.85
2008	107,200.39	55.00	1,949.10	41.18	80,257.61
2009	4,369.19	55.00	79.44	41.82	3,322.09
2010	30,818.46	55.00	560.34	42.47	23,798.15
2011	114,845.78	55.00	2,088.10	43.13	90,068.70
2012	143,420.45	55.00	2,607.64	43.81	114,236.65
2013	360,133.68	55.00	6,547.88	44.49	291,333.29
2014	82,708.84	55.00	1,503.80	45.19	67,959.76
2015	29,091.75	55.00	528.94	45.90	24,280.94
2016	107,280.37	55.00	1,950.55	46.63	90,957.63

PAWC - Water Operations
Water Operations
304.60 Office Buildings - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2017	95,983.57	55.00	1,745.15	47.37	82,674.57
2018	19,728,894.53	55.00	358,706.92	48.13	17,264,292.95
2019	1,662,367.46	55.00	30,224.84	48.91	1,478,169.80
2023	11,478.86	55.00	208.71	52.22	10,898.31
2025	2,409,664.54	55.00	43,812.05	54.03	2,367,225.64
Total	29,028,974.19	55.00	527,799.16	46.10	24,332,332.73

Composite Average Remaining Life ... 46.10 Years

PAWC - Water Operations
Water Operations
304.61 Office Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1924	845.00	0.00	0.00	0.00	0.00
1926	215.00	0.00	0.00	0.00	0.00
1958	13.02	50.00	0.26	4.10	1.07
1960	48.73	50.00	0.97	4.62	4.50
1961	21.19	50.00	0.42	4.88	2.07
1963	33,045.39	50.00	660.91	5.42	3,581.93
1964	1,079.50	50.00	21.59	5.70	123.04
1965	11,957.68	50.00	239.15	5.99	1,431.76
1966	1,125.43	50.00	22.51	6.29	141.47
1967	48,178.36	50.00	963.57	6.60	6,354.77
1968	57,455.89	50.00	1,149.12	6.92	7,949.75
1969	1,273.22	50.00	25.46	7.26	184.76
1970	11,121.74	50.00	222.43	7.61	1,692.34
1971	9,019.90	50.00	180.40	7.98	1,439.09
1972	61,461.67	50.00	1,229.23	8.36	10,280.71
1973	1,636.52	50.00	32.73	8.77	286.96
1975	6,526.85	50.00	130.54	9.63	1,257.17
1976	45,687.00	50.00	913.74	10.09	9,220.24
1977	13,240.50	50.00	264.81	10.57	2,798.96
1979	28,098.53	50.00	561.97	11.58	6,510.41
1980	1.10	50.00	0.02	12.12	0.27
1981	45,810.00	50.00	916.20	12.68	11,613.17
1982	361,045.49	50.00	7,220.91	13.25	95,662.12
1983	32,369.00	50.00	647.38	13.84	8,958.56
1984	902.06	50.00	18.04	14.45	260.62
1985	72,985.69	50.00	1,459.71	15.07	21,997.35
1986	351,447.26	50.00	7,028.94	15.71	110,422.89

PAWC - Water Operations
Water Operations
304.61 Office Buildings - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1987	596,055.80	50.00	11,921.11	16.37	195,092.94
1988	612,729.15	50.00	12,254.58	17.04	208,766.83
1989	449,868.60	50.00	8,997.37	17.72	159,439.34
1990	143,314.05	50.00	2,866.28	18.42	52,794.90
1991	33,727.65	50.00	674.55	19.13	12,905.04
1992	148,265.09	50.00	2,965.30	19.86	58,879.09
1993	12,902.30	50.00	258.05	20.59	5,313.99
1994	325,416.52	50.00	6,508.33	21.34	138,903.10
1995	58,927.46	50.00	1,178.55	22.10	26,049.67
1996	47,370.53	50.00	947.41	22.88	21,672.30
1997	35,194.64	50.00	703.89	23.66	16,653.02
1998	15,964.58	50.00	319.29	24.45	7,807.44
1999	61,011.45	50.00	1,220.23	25.26	30,819.14
2000	754,379.80	50.00	15,087.59	26.07	393,357.61
2001	49,302.15	50.00	986.04	26.90	26,521.01
2002	6,125.14	50.00	122.50	27.73	3,397.13
2003	84,890.14	50.00	1,697.80	28.58	48,515.32
2004	37,729.39	50.00	754.59	29.43	22,206.81
2005	346,446.58	50.00	6,928.93	30.29	209,890.68
2006	226,824.45	50.00	4,536.49	31.16	141,373.90
2007	90,382.39	50.00	1,807.65	32.04	57,924.62
2008	234,555.06	50.00	4,691.10	32.93	154,492.38
2009	101,931.15	50.00	2,038.62	33.83	68,966.74
2010	61,124.75	50.00	1,222.49	34.73	42,463.20
2011	121,514.52	50.00	2,430.29	35.65	86,632.98
2012	183,845.36	50.00	3,676.91	36.57	134,452.20
2013	88,318.55	50.00	1,766.37	37.49	66,226.52

PAWC - Water Operations
Water Operations
304.61 Office Buildings - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2014	402,537.52	50.00	8,050.75	38.43	309,356.64
2015	12,615.97	50.00	252.32	39.36	9,932.50
2016	683,665.11	50.00	13,673.30	40.31	551,164.97
2017	539,219.66	50.00	10,784.39	41.26	444,961.80
2018	1,151,356.24	50.00	23,027.11	42.22	972,092.29
2019	1,338,951.60	50.00	26,779.02	43.18	1,156,188.37
2020	619,050.23	50.00	12,381.00	44.14	546,492.24
2021	830,510.39	50.00	16,610.20	45.11	749,254.02
2022	1,604,063.59	50.00	32,081.26	46.08	1,478,312.74
2023	387,682.44	50.00	7,753.65	47.06	364,854.42
2024	800,288.59	50.00	16,005.76	48.03	768,829.50
2025	887,174.99	50.00	17,743.49	49.02	869,715.35
Total	15,381,845.30	48.48	307,615.56	35.48	10,914,848.72

Composite Average Remaining Life ... 35.48 Years

PAWC - Water Operations
Water Operations
304.62 Garage Buildings - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1958	1,356.00	55.00	24.65	14.58	359.57
1965	653,341.28	55.00	11,878.93	17.30	205,458.68
1967	45,486.00	55.00	827.02	18.10	14,971.13
1969	4,300.00	55.00	78.18	18.93	1,479.59
1970	2,902.00	55.00	52.76	19.34	1,020.57
1972	1,319.97	55.00	24.00	20.19	484.55
1973	9,153.18	55.00	166.42	20.62	3,431.76
1975	40.52	55.00	0.74	21.50	15.84
1977	1,690.34	55.00	30.73	22.39	688.19
1979	3,808.27	55.00	69.24	23.31	1,613.93
1981	0.16	55.00	0.00	24.25	0.07
1985	8,909.55	55.00	161.99	26.20	4,243.78
1986	56,270.95	55.00	1,023.11	26.70	27,318.47
1987	799,727.39	55.00	14,540.49	27.21	395,678.90
1988	16,136.70	55.00	293.39	27.73	8,135.80
1989	365,534.82	55.00	6,646.09	28.25	187,783.31
1990	21,055.84	55.00	382.83	28.79	11,020.57
1991	5,126.72	55.00	93.21	29.33	2,733.52
1992	10,300.00	55.00	187.27	29.87	5,594.48
1993	2,884.28	55.00	52.44	30.43	1,595.76
1995	1,257.55	55.00	22.86	31.57	721.74
1996	53,669.41	55.00	975.81	32.15	31,367.60
1997	53,667.76	55.00	975.78	32.74	31,942.83
1998	41,194.00	55.00	748.98	33.34	24,967.60
2000	55,773.26	55.00	1,014.06	34.56	35,048.86
2001	106,652.86	55.00	1,939.14	35.19	68,241.06
2002	3,229.97	55.00	58.73	35.83	2,104.09

PAWC - Water Operations
Water Operations
304.62 Garage Buildings - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2006	123,630.77	55.00	2,247.83	38.49	86,523.66
2007	61,197.63	55.00	1,112.68	39.18	43,599.34
2008	530,439.54	55.00	9,644.35	39.89	384,717.73
2009	415,793.46	55.00	7,559.88	40.61	306,999.60
2010	105,796.74	55.00	1,923.58	41.34	79,520.69
2011	56,537.12	55.00	1,027.95	42.08	43,259.74
2012	1,931,567.43	55.00	35,119.40	42.84	1,504,520.87
2013	23,340.26	55.00	424.37	43.61	18,505.92
2014	16,852,825.36	55.00	306,414.91	44.39	13,602,500.41
2015	31,770.86	55.00	577.65	45.19	26,104.40
2018	19,072,598.79	55.00	346,774.41	47.67	16,530,311.70
2019	6,338,430.77	55.00	115,244.16	48.53	5,592,392.90
2021	11,528,614.10	55.00	209,611.10	50.29	10,541,095.10
Total	59,397,331.61	55.00	1,079,951.14	46.14	49,828,074.29

Composite Average Remaining Life ... 46.14 Years

PAWC - Water Operations
Water Operations
304.63 Garage Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 45 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1906	2,277.20	0.00	0.00	0.00	0.00
1908	11,029.40	0.00	0.00	0.00	0.00
1909	13,507.39	0.00	0.00	0.00	0.00
1912	4,321.23	0.00	0.00	0.00	0.00
1922	38.02	0.00	0.00	0.00	0.00
1924	0.63	0.00	0.00	0.00	0.00
1926	14,835.75	0.00	0.00	0.00	0.00
1927	283.00	0.00	0.00	0.00	0.00
1928	2,177.00	0.00	0.00	0.00	0.00
1929	2,405.47	0.00	0.00	0.00	0.00
1935	1,480.00	0.00	0.00	0.00	0.00
1937	295.00	0.00	0.00	0.00	0.00
1940	190.00	0.00	0.00	0.00	0.00
1942	2,556.77	0.00	0.00	0.00	0.00
1943	0.07	0.00	0.00	0.00	0.00
1945	648.58	0.00	0.00	0.00	0.00
1947	0.21	0.00	0.00	0.00	0.00
1948	524.42	0.00	0.00	0.00	0.00
1949	260.00	0.00	0.00	0.00	0.00
1950	368.99	0.00	0.00	0.00	0.00
1951	871.00	45.00	19.36	0.50	9.68
1954	10,690.00	45.00	237.56	1.03	244.92
1955	141.54	45.00	3.15	1.26	3.95
1956	6,563.98	45.00	145.87	1.49	217.34
1957	2,349.38	45.00	52.21	1.71	89.21
1958	1,197.00	45.00	26.60	1.96	52.16
1959	728.45	45.00	16.19	2.22	35.86

PAWC - Water Operations
Water Operations
304.63 Garage Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 45 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1960	2,083.92	45.00	46.31	2.47	114.45
1961	2,337.30	45.00	51.94	2.72	141.10
1962	827.00	45.00	18.38	2.97	54.67
1963	2,401.75	45.00	53.37	3.23	172.58
1964	3,175.28	45.00	70.56	3.49	246.42
1965	574.98	45.00	12.78	3.75	47.93
1966	1,195.17	45.00	26.56	4.00	106.26
1967	5,566.05	45.00	123.69	4.26	527.23
1968	2,498.10	45.00	55.51	4.53	251.38
1969	2,634.23	45.00	58.54	4.80	280.94
1970	7,477.75	45.00	166.17	5.07	842.84
1971	118.53	45.00	2.63	5.36	14.12
1972	1,497.86	45.00	33.29	5.66	188.32
1973	4,075.51	45.00	90.57	5.97	540.60
1974	1,878.67	45.00	41.75	6.29	262.80
1976	4,139.68	45.00	91.99	6.99	643.38
1977	1,348.58	45.00	29.97	7.37	220.91
1978	231.44	45.00	5.14	7.77	39.95
1980	2,836.34	45.00	63.03	8.62	543.53
1981	1,534.25	45.00	34.09	9.08	309.64
1982	6,296.00	45.00	139.91	9.56	1,337.76
1983	6,864.02	45.00	152.53	10.06	1,534.79
1984	50,567.72	45.00	1,123.73	10.59	11,896.11
1985	35,513.76	45.00	789.19	11.13	8,783.03
1986	27,677.97	45.00	615.07	11.69	7,191.39
1987	822.21	45.00	18.27	12.27	224.27
1988	551,770.05	45.00	12,261.55	12.88	157,918.12

PAWC - Water Operations
Water Operations
304.63 Garage Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *45* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1989	67,022.20	45.00	1,489.38	13.50	20,106.90
1990	977,166.56	45.00	21,714.80	14.14	307,023.34
1991	703,073.68	45.00	15,623.85	14.79	231,149.41
1992	326,380.72	45.00	7,252.90	15.47	112,178.74
1993	10,915.11	45.00	242.56	16.16	3,919.13
1994	68,231.44	45.00	1,516.25	16.86	25,565.63
1995	6,922.98	45.00	153.84	17.58	2,704.42
1996	89,822.17	45.00	1,996.05	18.31	36,549.02
1997	117,923.48	45.00	2,620.52	19.06	49,941.83
1998	17,129.33	45.00	380.65	19.82	7,543.25
1999	137,988.42	45.00	3,066.41	20.59	63,130.69
2000	71,946.71	45.00	1,598.82	21.37	34,168.44
2001	20,966.41	45.00	465.92	22.17	10,327.67
2002	9,450.88	45.00	210.02	22.98	4,825.20
2004	1,409.66	45.00	31.33	24.62	771.33
2005	49,272.77	45.00	1,094.95	25.46	27,880.68
2006	46,209.96	45.00	1,026.89	26.32	27,022.65
2007	51,006.16	45.00	1,133.47	27.18	30,803.54
2008	30,880.12	45.00	686.22	28.05	19,246.80
2009	16,376.26	45.00	363.92	28.93	10,527.38
2010	3,292.18	45.00	73.16	29.82	2,181.46
2011	204,308.42	45.00	4,540.18	30.72	139,465.51
2012	213,304.25	45.00	4,740.09	31.63	149,908.37
2013	45,748.36	45.00	1,016.63	32.54	33,082.48
2014	71,517.92	45.00	1,589.29	33.46	53,185.04
2015	514,980.71	45.00	11,444.01	34.40	393,633.04
2016	77,822.77	45.00	1,729.39	35.33	61,106.96

PAWC - Water Operations
Water Operations
304.63 Garage Buildings - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *45* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2017	35,445.83	45.00	787.68	36.28	28,576.13
2018	1,423,776.58	45.00	31,639.46	37.23	1,177,904.10
2019	166,008.61	45.00	3,689.08	38.18	140,866.90
2020	419,301.96	45.00	9,317.82	39.15	364,761.64
2021	1,977,977.57	45.00	43,955.04	40.11	1,763,152.81
2022	399,491.26	45.00	8,877.58	41.08	364,716.78
2023	165,400.27	45.00	3,675.56	42.06	154,583.33
2025	285,732.90	45.00	6,349.62	44.02	279,486.09
Total	9,631,889.21	34.89	212,770.79	29.74	6,327,084.36

Composite Average Remaining Life ... 29.74 Years

PAWC - Water Operations
Water Operations
304.65 Miscellaneous Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1917	599.15	0.00	0.00	0.00	0.00
1920	664.61	0.00	0.00	0.00	0.00
1927	142.31	0.00	0.00	0.00	0.00
1929	630.49	0.00	0.00	0.00	0.00
1930	4,558.43	0.00	0.00	0.00	0.00
1936	1,322.84	0.00	0.00	0.00	0.00
1941	644.36	0.00	0.00	0.00	0.00
1942	535.72	0.00	0.00	0.00	0.00
1943	42.18	0.00	0.00	0.00	0.00
1951	0.95	0.00	0.00	0.00	0.00
1952	478.89	0.00	0.00	0.00	0.00
1954	1,879.63	0.00	0.00	0.00	0.00
1958	1,399.09	35.00	39.97	0.79	31.58
1959	134.68	35.00	3.85	1.12	4.30
1960	1,285.28	35.00	36.72	1.46	53.50
1962	180.48	35.00	5.16	2.12	10.93
1963	1,029.08	35.00	29.40	2.45	72.10
1964	421.47	35.00	12.04	2.79	33.54
1967	421.04	35.00	12.03	3.79	45.57
1969	4.68	35.00	0.13	4.45	0.60
1970	253.31	35.00	7.24	4.79	34.67
1971	468.94	35.00	13.40	5.13	68.70
1972	566.38	35.00	16.18	5.47	88.46
1973	24.36	35.00	0.70	5.81	4.04
1975	2,925.93	35.00	83.60	6.50	543.25
1981	141.08	35.00	4.03	8.64	34.83
1983	1,027.70	35.00	29.36	9.39	275.62

PAWC - Water Operations
Water Operations
304.65 Miscellaneous Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1986	1,967.20	35.00	56.21	10.54	592.47
1987	6,676.54	35.00	190.76	10.94	2,086.26
1988	3,182.41	35.00	90.93	11.34	1,030.93
1989	525.11	35.00	15.00	11.75	176.22
1991	2,489.17	35.00	71.12	12.58	894.63
1992	1,478.76	35.00	42.25	13.01	549.54
1996	22,045.47	35.00	629.87	14.79	9,317.26
1997	6,677.97	35.00	190.80	15.26	2,911.55
1998	4,508.07	35.00	128.80	15.74	2,026.88
2003	65,913.56	35.00	1,883.24	18.27	34,408.73
2004	204,717.34	35.00	5,849.05	18.81	110,031.94
2005	175,582.84	35.00	5,016.64	19.37	97,148.44
2006	63,869.80	35.00	1,824.85	19.93	36,371.96
2007	262,123.35	35.00	7,489.22	20.51	153,613.63
2008	327,814.87	35.00	9,366.11	21.11	197,673.65
2009	26,499.10	35.00	757.12	21.71	16,439.09
2010	148,396.43	35.00	4,239.89	22.34	94,706.62
2011	1,710.45	35.00	48.87	22.98	1,122.90
2012	59,457.08	35.00	1,698.77	23.63	40,149.13
2013	28,675.54	35.00	819.30	24.31	19,915.93
2014	11,769.80	35.00	336.28	25.00	8,407.24
2015	592,316.95	35.00	16,923.30	25.71	435,128.42
2016	485,385.52	35.00	13,868.12	26.44	366,686.99
2017	369,909.50	35.00	10,568.81	27.19	287,388.62
2018	769,199.51	35.00	21,977.07	27.96	614,571.38
2019	38.71	35.00	1.11	28.76	31.81
2020	9,344.71	35.00	266.99	29.57	7,896.05

PAWC - Water Operations
Water Operations
304.65 Miscellaneous Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2021	35,363.13	35.00	1,010.37	30.41	30,729.15
2022	36,146.90	35.00	1,032.77	31.28	32,302.08
2023	710,947.37	35.00	20,312.73	32.16	653,346.27
2025	975,891.16	35.00	27,882.53	34.02	948,656.43
2026	155,329.22	35.00	4,437.97	34.75	154,224.76
Total	5,587,736.60	27.88	159,320.63	27.38	4,361,838.63

Composite Average Remaining Life ... 27.38 Years

PAWC - Water Operations
Water Operations
305.20 Collecting Reservoirs - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 75 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1975	3,696.63	75.00	49.29	29.78	1,467.95
1976	33,873.94	75.00	451.65	30.52	13,782.89
1977	10,916.92	75.00	145.56	31.26	4,550.48
1978	1,349.94	75.00	18.00	32.01	576.20
1979	1,950.67	75.00	26.01	32.77	852.32
1980	4,963.85	75.00	66.18	33.54	2,219.76
1981	40,478.96	75.00	539.72	34.31	18,518.93
1982	6,586.84	75.00	87.82	35.09	3,081.96
1983	23,816.23	75.00	317.55	35.88	11,394.59
1984	9,522.41	75.00	126.97	36.68	4,656.83
1985	9,787.50	75.00	130.50	37.48	4,891.06
1986	63,587.47	75.00	847.83	38.29	32,464.35
1987	238,785.72	75.00	3,183.81	39.11	124,508.65
1988	5,057.13	75.00	67.43	39.93	2,692.34
1989	10,658.11	75.00	142.11	40.76	5,792.38
1990	6,573.40	75.00	87.65	41.60	3,645.71
1991	64,197.42	75.00	855.97	42.44	36,325.25
1992	488,163.58	75.00	6,508.85	43.29	281,758.04
1993	11,903.21	75.00	158.71	44.14	7,005.94
1994	590.47	75.00	7.87	45.00	354.31
1995	402,185.05	75.00	5,362.47	45.87	245,989.72
1996	24,583.99	75.00	327.79	46.75	15,322.47
1997	584,524.50	75.00	7,793.66	47.62	371,160.53
1998	8,582.75	75.00	114.44	48.51	5,551.27
2000	36,206.67	75.00	482.76	50.29	24,279.79
2001	107,327.29	75.00	1,431.03	51.20	73,263.64
2002	121,804.01	75.00	1,624.05	52.10	84,616.58

PAWC - Water Operations
Water Operations
305.20 Collecting Reservoirs - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2003	6,013.22	75.00	80.18	53.01	4,250.34
2006	13,535.28	75.00	180.47	55.77	10,065.62
2007	22,971.49	75.00	306.29	56.71	17,367.99
2014	1,219,266.97	75.00	16,256.89	63.32	1,029,428.50
2016	7,735.78	75.00	103.14	65.24	6,729.55
2017	107,019.88	75.00	1,426.93	66.21	94,476.18
2019	385,025.55	75.00	5,133.67	68.15	349,848.21
2020	632,820.09	75.00	8,437.60	69.12	583,209.89
2023	1,227,876.69	75.00	16,371.69	72.05	1,179,609.18
2024	4,929,950.44	75.00	65,732.67	73.03	4,800,625.38
2025	549,203.56	75.00	7,322.71	74.02	541,995.93
Total	11,423,093.61	75.00	152,307.91	65.65	9,998,330.68

Composite Average Remaining Life ... 65.65 Years

PAWC - Water Operations
Water Operations
306.10 Lake Intakes - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1962	4,167.41	55.00	75.77	12.52	948.37
1966	6,696.14	55.00	121.75	13.91	1,693.34
1970	1,783.13	55.00	32.42	15.41	499.51
1990	18,120.03	55.00	329.46	25.07	8,258.89
1992	743,957.01	55.00	13,526.49	26.28	355,525.26
1995	1,697,864.04	55.00	30,870.26	28.21	870,868.68
1996	16,079.46	55.00	292.35	28.88	8,442.56
1997	9,262,132.20	55.00	168,402.42	29.56	4,978,420.45
1998	153,399.52	55.00	2,789.08	30.26	84,401.72
2004	89,428.33	55.00	1,625.97	34.75	56,508.16
2005	48,578.25	55.00	883.24	35.55	31,401.79
2007	52,227.42	55.00	949.59	37.19	35,316.27
2008	24,096.05	55.00	438.11	38.03	16,662.56
2018	210,583.17	55.00	3,828.79	47.12	180,394.08
Total	12,329,112.16	55.00	224,165.69	29.57	6,629,341.65

Composite Average Remaining Life ... 29.57 Years

PAWC - Water Operations
Water Operations
306.20 Lake Intakes - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1903	410.39	0.00	0.00	0.00	0.00
1905	534.43	0.00	0.00	0.00	0.00
1906	75.36	0.00	0.00	0.00	0.00
1907	35.28	0.00	0.00	0.00	0.00
1908	3,802.04	0.00	0.00	0.00	0.00
1909	483.18	0.00	0.00	0.00	0.00
1914	78.40	0.00	0.00	0.00	0.00
1915	1,821.25	0.00	0.00	0.00	0.00
1916	339.02	0.00	0.00	0.00	0.00
1920	325.59	0.00	0.00	0.00	0.00
1924	169.04	0.00	0.00	0.00	0.00
1934	259.69	50.00	5.19	2.82	14.63
1937	1,562.87	50.00	31.26	3.82	119.51
1938	212.56	50.00	4.25	4.16	17.68
1948	4,010.11	50.00	80.20	7.51	602.47
1954	498.28	50.00	9.97	9.58	95.43
1955	1,186.11	50.00	23.72	9.93	235.47
1959	0.02	50.00	0.00	11.35	0.00
1961	190,082.61	50.00	3,801.65	12.08	45,915.93
1962	2,379.72	50.00	47.59	12.45	592.35
1963	0.34	50.00	0.01	12.82	0.09
1964	12,769.99	50.00	255.40	13.19	3,368.94
1966	20,748.56	50.00	414.97	13.95	5,788.32
1967	34,143.96	50.00	682.88	14.33	9,787.59
1968	3,233.89	50.00	64.68	14.72	952.09
1969	330,412.38	50.00	6,608.24	15.11	99,863.63
1970	237.03	50.00	4.74	15.51	73.51

PAWC - Water Operations
Water Operations
306.20 Lake Intakes - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1972	2,354.32	50.00	47.09	16.31	767.98
1973	187,614.58	50.00	3,752.29	16.72	62,729.84
1974	681.97	50.00	13.64	17.13	233.64
1976	4,852.30	50.00	97.05	17.97	1,743.73
1979	4,513.05	50.00	90.26	19.26	1,738.64
1980	216.19	50.00	4.32	19.70	85.20
1982	0.25	50.00	0.00	20.60	0.10
1983	581.03	50.00	11.62	21.06	244.78
1984	7,023.48	50.00	140.47	21.53	3,024.21
1985	697.88	50.00	13.96	22.00	307.08
1986	5,080.50	50.00	101.61	22.48	2,284.07
1987	367.98	50.00	7.36	22.96	169.00
1988	324.97	50.00	6.50	23.46	152.44
1989	29,358.08	50.00	587.16	23.95	14,064.69
1991	298,477.84	50.00	5,969.55	24.97	149,079.64
1992	13,193.06	50.00	263.86	25.49	6,727.07
1994	7,099.58	50.00	141.99	26.56	3,771.57
1996	984,488.40	50.00	19,689.75	27.66	544,684.88
1997	104,446.54	50.00	2,088.93	28.23	58,965.41
1998	4,130.31	50.00	82.61	28.80	2,379.15
1999	424,004.45	50.00	8,480.08	29.38	249,181.85
2001	11,450.40	50.00	229.01	30.58	7,003.27
2002	110,605.59	50.00	2,212.11	31.19	69,006.48
2006	199,267.35	50.00	3,985.34	33.76	134,554.79
2007	431,304.73	50.00	8,626.09	34.43	297,029.54
2008	71,498.70	50.00	1,429.97	35.12	50,217.56
2011	35,369.46	50.00	707.39	37.25	26,349.03

PAWC - Water Operations
Water Operations
306.20 Lake Intakes - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2013	63,613.56	50.00	1,272.27	38.74	49,284.74
2014	6,708.45	50.00	134.17	39.50	5,300.22
2017	303,443.55	50.00	6,068.86	41.90	254,255.39
2019	144,996.82	50.00	2,899.93	43.57	126,347.62
2020	65,210.69	50.00	1,304.21	44.43	57,948.03
2021	110,041.39	50.00	2,200.83	45.31	99,721.97
2023	1,193,969.83	50.00	23,879.37	47.13	1,125,319.38
2025	2,794,308.00	50.00	55,886.10	49.02	2,739,422.94
Total	8,231,107.38	41.13	164,460.49	38.38	6,311,523.58

Composite Average Remaining Life ... 38.38 Years

PAWC - Water Operations
Water Operations
307.00 Wells and Springs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1901	681.93	0.00	0.00	0.00	0.00
1904	1,464.95	0.00	0.00	0.00	0.00
1905	11,469.70	0.00	0.00	0.00	0.00
1907	59.56	0.00	0.00	0.00	0.00
1908	10.92	0.00	0.00	0.00	0.00
1910	6,312.19	0.00	0.00	0.00	0.00
1912	844.78	0.00	0.00	0.00	0.00
1913	1,485.52	0.00	0.00	0.00	0.00
1914	681.15	0.00	0.00	0.00	0.00
1915	2,497.70	0.00	0.00	0.00	0.00
1916	1,749.01	0.00	0.00	0.00	0.00
1918	1,176.08	55.00	21.38	0.80	17.18
1920	61.59	55.00	1.12	1.50	1.68
1922	2,800.86	55.00	50.92	2.22	112.88
1923	9,805.16	55.00	178.28	2.58	460.55
1924	8,312.21	55.00	151.13	2.95	446.20
1926	457.16	55.00	8.31	3.70	30.72
1927	1,171.62	55.00	21.30	4.07	86.63
1930	8.95	55.00	0.16	5.19	0.85
1934	197.86	55.00	3.60	6.71	24.12
1935	1,242.93	55.00	22.60	7.09	160.18
1937	3,037.93	55.00	55.24	7.86	433.96
1938	239.68	55.00	4.36	8.24	35.92
1939	2,531.85	55.00	46.03	8.63	397.18
1940	74.35	55.00	1.35	9.02	12.19
1941	825.77	55.00	15.01	9.41	141.24
1945	4,298.99	55.00	78.16	10.98	858.04

PAWC - Water Operations
Water Operations
307.00 Wells and Springs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1946	223.23	55.00	4.06	11.37	46.16
1948	861.30	55.00	15.66	12.17	190.61
1950	107.48	55.00	1.95	12.98	25.36
1951	605.10	55.00	11.00	13.38	147.20
1953	12,940.30	55.00	235.28	14.19	3,339.44
1954	14,752.89	55.00	268.23	14.60	3,916.93
1955	12,112.59	55.00	220.23	15.01	3,306.43
1956	1,595.84	55.00	29.02	15.43	447.60
1957	25,321.59	55.00	460.39	15.84	7,293.16
1958	2,582.60	55.00	46.96	16.26	763.43
1959	1,920.72	55.00	34.92	16.68	582.39
1960	45,989.30	55.00	836.17	17.10	14,296.06
1961	4,462.49	55.00	81.14	17.52	1,421.47
1962	2,997.16	55.00	54.49	17.94	977.85
1963	8,633.83	55.00	156.98	18.37	2,883.91
1964	2,114.28	55.00	38.44	18.80	722.71
1965	13,643.97	55.00	248.07	19.23	4,770.74
1966	120,566.08	55.00	2,192.11	19.66	43,107.21
1967	4,200.85	55.00	76.38	20.10	1,535.26
1968	7,099.79	55.00	129.09	20.54	2,651.29
1969	56,380.98	55.00	1,025.11	20.98	21,506.30
1970	7,896.19	55.00	143.57	21.42	3,075.60
1971	31,770.82	55.00	577.65	21.87	12,632.40
1972	101,470.63	55.00	1,844.92	22.32	41,173.21
1973	100,432.43	55.00	1,826.04	22.77	41,575.98
1974	38,731.78	55.00	704.21	23.22	16,353.48
1975	9,075.85	55.00	165.02	23.68	3,907.45

PAWC - Water Operations
Water Operations
307.00 Wells and Springs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1976	108,029.28	55.00	1,964.17	24.14	47,413.61
1977	20,490.03	55.00	372.55	24.60	9,165.50
1978	178,729.50	55.00	3,249.63	25.07	81,463.32
1979	92,568.39	55.00	1,683.06	25.54	42,981.91
1980	224,448.24	55.00	4,080.87	26.01	106,145.32
1981	134,002.70	55.00	2,436.41	26.49	64,532.51
1982	297,910.23	55.00	5,416.55	26.97	146,065.32
1983	167,873.11	55.00	3,052.24	27.45	83,783.73
1984	49,303.78	55.00	896.43	27.94	25,043.72
1985	97,160.86	55.00	1,766.56	28.43	50,219.15
1986	89,535.96	55.00	1,627.93	28.92	47,084.23
1987	304,913.16	55.00	5,543.87	29.42	163,112.59
1988	209,822.34	55.00	3,814.95	29.93	114,164.98
1989	96,664.83	55.00	1,757.54	30.43	53,488.32
1990	942,766.58	55.00	17,141.20	30.95	530,452.46
1991	90,932.61	55.00	1,653.32	31.46	52,017.68
1992	222,370.82	55.00	4,043.10	31.98	129,317.90
1993	80,566.53	55.00	1,464.84	32.51	47,625.14
1994	11,303.91	55.00	205.53	33.04	6,791.49
1995	77,258.54	55.00	1,404.70	33.58	47,173.07
1996	210,950.90	55.00	3,835.47	34.12	130,884.42
1997	132,590.72	55.00	2,410.74	34.67	83,590.66
1998	61,315.68	55.00	1,114.83	35.23	39,275.29
1999	40,117.29	55.00	729.40	35.79	26,106.61
2000	893,302.05	55.00	16,241.84	36.36	590,552.88
2001	249,456.87	55.00	4,535.58	36.94	167,521.61
2002	304,629.46	55.00	5,538.71	37.52	207,791.02

PAWC - Water Operations
Water Operations
307.00 Wells and Springs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2003	144,275.25	55.00	2,623.18	38.11	99,959.17
2004	992,896.65	55.00	18,052.65	38.70	698,703.10
2005	2,656.44	55.00	48.30	39.31	1,898.59
2006	231,131.79	55.00	4,202.39	39.92	167,772.90
2007	502,115.51	55.00	9,129.37	40.54	370,144.04
2008	311,828.77	55.00	5,669.61	41.18	233,456.54
2009	8,573.91	55.00	155.89	41.82	6,519.13
2010	274,129.70	55.00	4,984.17	42.47	211,684.14
2011	339,764.18	55.00	6,177.53	43.13	266,462.72
2012	103,715.77	55.00	1,885.74	43.81	82,611.24
2013	217,566.75	55.00	3,955.76	44.49	176,002.53
2014	173,233.36	55.00	3,149.70	45.19	142,341.47
2015	1,153,991.75	55.00	20,981.65	45.90	963,159.85
2016	83,509.85	55.00	1,518.36	46.63	70,803.80
2017	28,746.62	55.00	522.67	47.37	24,760.64
2018	120,560.07	55.00	2,192.00	48.13	105,499.29
2019	136,512.89	55.00	2,482.05	48.91	121,386.66
2020	262,149.07	55.00	4,766.34	49.70	236,892.84
2021	186,021.65	55.00	3,382.21	50.52	170,859.11
2022	1,580,320.53	55.00	28,733.08	51.36	1,475,595.20
2023	297,050.29	55.00	5,400.91	52.22	282,026.84
2024	63,501.73	55.00	1,154.58	53.11	61,314.85
2025	1,372,071.88	55.00	24,946.74	54.03	1,347,907.01
Total	14,667,329.25	49.18	266,182.94	40.00	10,647,395.26

Composite Average Remaining Life ... 40.00 Years

PAWC - Water Operations
Water Operations
310.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 45 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1931	3,609.84	0.00	0.00	0.00	0.00
1936	2,809.10	0.00	0.00	0.00	0.00
1937	4,520.24	45.00	100.45	0.50	50.22
1940	2,939.00	45.00	65.31	1.45	94.59
1944	1.00	45.00	0.02	2.80	0.06
1954	8,338.50	45.00	185.30	6.15	1,140.11
1957	1,178.00	45.00	26.18	7.17	187.66
1958	5,336.00	45.00	118.58	7.51	890.67
1959	107.00	45.00	2.38	7.86	18.68
1963	940.00	45.00	20.89	9.25	193.25
1965	6,019.00	45.00	133.76	9.96	1,332.85
1966	142.00	45.00	3.16	10.32	32.58
1967	7,319.00	45.00	162.64	10.69	1,738.26
1968	23,061.00	45.00	512.47	11.05	5,664.95
1969	45,202.40	45.00	1,004.50	11.42	11,475.74
1970	206.00	45.00	4.58	11.80	54.00
1972	7,872.85	45.00	174.95	12.55	2,196.38
1973	136.00	45.00	3.02	12.94	39.10
1974	52,315.00	45.00	1,162.56	13.33	15,493.57
1975	38,313.36	45.00	851.41	13.72	11,680.58
1980	25,076.66	45.00	557.26	15.75	8,777.00
1981	585.65	45.00	13.01	16.17	210.46
1982	11,137.43	45.00	247.50	16.60	4,108.00
1983	2,509.00	45.00	55.76	17.03	949.53
1991	39,570.00	45.00	879.33	20.72	18,216.18
1992	48,752.04	45.00	1,083.38	21.21	22,976.67
1993	23,243.53	45.00	516.52	21.71	11,213.58

PAWC - Water Operations
Water Operations
310.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 45 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1994	107,457.50	45.00	2,387.94	22.22	53,056.72
1995	1,076.42	45.00	23.92	22.74	543.85
1996	7,932.48	45.00	176.28	23.26	4,100.53
1997	1,040,121.31	45.00	23,113.80	23.80	550,060.95
1998	20,346.13	45.00	452.14	24.34	11,006.22
1999	250,124.14	45.00	5,558.31	24.90	138,386.02
2000	96,600.18	45.00	2,146.67	25.46	54,657.44
2001	3,572.21	45.00	79.38	26.04	2,066.81
2002	189,643.82	45.00	4,214.31	26.62	112,198.71
2003	241,761.04	45.00	5,372.47	27.22	146,239.69
2004	86,744.06	45.00	1,927.65	27.83	53,643.50
2005	261,676.97	45.00	5,815.04	28.45	165,429.47
2006	370,647.36	45.00	8,236.61	29.08	239,540.90
2007	106,124.17	45.00	2,358.31	29.73	70,107.67
2008	133,786.35	45.00	2,973.03	30.39	90,339.09
2009	129,823.10	45.00	2,884.96	31.06	89,600.63
2010	97,770.04	45.00	2,172.67	31.74	68,967.62
2011	401,064.15	45.00	8,912.53	32.45	289,170.40
2012	6,230,204.92	45.00	138,448.95	33.16	4,591,020.97
2013	5,465,954.46	45.00	121,465.62	33.89	4,116,526.62
2014	619,366.07	45.00	13,763.69	34.64	476,719.57
2015	609,698.44	45.00	13,548.85	35.40	479,626.26
2016	160,719.19	45.00	3,571.54	36.18	129,213.02
2017	266,682.99	45.00	5,926.29	36.97	219,119.58
2018	983,860.91	45.00	21,863.57	37.79	826,161.28
2019	344,429.87	45.00	7,653.99	38.62	295,580.72
2020	278,768.83	45.00	6,194.86	39.47	244,509.33

PAWC - Water Operations
Water Operations
310.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *45* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2021	193,906.93	45.00	4,309.04	40.34	173,820.02
2022	168,052.35	45.00	3,734.50	41.23	153,960.45
2023	5,452,340.43	45.00	121,163.08	42.13	5,105,184.48
2024	839,770.15	45.00	18,661.55	43.07	803,692.76
2025	1,604,430.51	45.00	35,654.00	44.02	1,569,485.76
Total	27,125,697.08	43.47	602,650.43	35.58	21,442,471.73

Composite Average Remaining Life ... 35.58 Years

PAWC - Water Operations
Water Operations
311.20 Pumping Equipment - Electric
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 39 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1957	5,665.47	39.00	145.27	3.34	485.41
1958	73.73	39.00	1.89	3.72	7.02
1974	4,964.56	39.00	127.30	9.97	1,269.18
1977	19,220.56	39.00	492.83	11.21	5,522.31
1978	18,997.35	39.00	487.11	11.62	5,661.05
1979	4,205.00	39.00	107.82	12.04	1,298.32
1980	431.91	39.00	11.07	12.46	138.03
1981	9,166.75	39.00	235.04	12.89	3,029.43
1982	1,040.96	39.00	26.69	13.32	355.45
1983	2,613.98	39.00	67.02	13.75	921.50
1984	1,389.79	39.00	35.64	14.18	505.43
1987	741.00	39.00	19.00	15.51	294.66
1988	1,485.00	39.00	38.08	15.96	607.60
1989	5,955.25	39.00	152.70	16.41	2,505.82
1990	10,310.16	39.00	264.36	16.87	4,459.07
1991	9,057.70	39.00	232.25	17.33	4,024.49
1992	66,074.21	39.00	1,694.20	17.79	30,146.90
1993	20,263.16	39.00	519.57	18.26	9,489.46
1995	9,518.47	39.00	244.06	19.22	4,690.72
1996	119,141.88	39.00	3,054.90	19.70	60,195.04
1997	16,672.84	39.00	427.51	20.20	8,633.53
1998	14,990.79	39.00	384.38	20.69	7,953.20
1999	2,598.51	39.00	66.63	21.19	1,412.08
2000	1,860.29	39.00	47.70	21.70	1,035.15
2001	42,316.60	39.00	1,085.04	22.22	24,105.97
2002	44,041.12	39.00	1,129.25	22.74	25,677.00
2003	1,023,633.44	39.00	26,246.87	23.27	610,694.55

PAWC - Water Operations
Water Operations
311.20 Pumping Equipment - Electric

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2004	152,038.10	39.00	3,898.39	23.80	92,797.13
2005	355,301.76	39.00	9,110.25	24.35	221,816.58
2006	2,818,689.71	39.00	72,273.71	24.90	1,799,691.60
2007	47,776.02	39.00	1,225.02	25.46	31,191.63
2008	265,426.92	39.00	6,805.78	26.03	177,178.28
2009	38,624.68	39.00	990.37	26.61	26,357.34
2010	58,569.19	39.00	1,501.77	27.21	40,856.25
2011	117,249.98	39.00	3,006.39	27.81	83,602.17
2012	910,546.04	39.00	23,347.21	28.42	663,573.35
2013	344,080.13	39.00	8,822.52	29.05	256,287.72
2014	4,353,903.43	39.00	111,637.95	29.69	3,314,420.03
2015	360,443.02	39.00	9,242.08	30.34	280,446.62
2016	551,559.32	39.00	14,142.47	31.01	438,615.38
2017	145,324.53	39.00	3,726.25	31.70	118,130.50
2018	1,683,376.44	39.00	43,163.27	32.41	1,398,766.32
2019	857,993.31	39.00	21,999.71	33.13	728,915.99
2020	2,206,232.16	39.00	56,569.75	33.88	1,916,620.96
2021	1,487,352.61	39.00	38,137.04	34.65	1,321,476.31
2022	59,557.50	39.00	1,527.11	35.45	54,134.99
2023	1,020,364.40	39.00	26,163.05	36.28	949,077.48
2024	78,642.08	39.00	2,016.45	37.14	74,889.45
2025	2,009,413.32	39.00	51,523.14	38.04	1,959,929.72
2026	4,387,338.80	39.00	112,495.26	38.75	4,359,346.20
Total	25,766,233.93	39.00	660,669.11	31.97	21,123,240.38

Composite Average Remaining Life ... 31.97 Years

PAWC - Water Operations
Water Operations
311.50 Pumping Equipment - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 39 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1990	1,801.52	39.00	46.19	16.87	779.14
1995	401.15	39.00	10.29	19.22	197.69
1998	1,318.78	39.00	33.81	20.69	699.66
1999	5,730.18	39.00	146.93	21.19	3,113.90
2000	161,230.70	39.00	4,134.10	21.70	89,716.48
2003	3,916.03	39.00	100.41	23.27	2,336.28
2004	38,641.82	39.00	990.81	23.80	23,585.21
2005	87,881.47	39.00	2,253.36	24.35	54,864.82
2006	52,353.05	39.00	1,342.38	24.90	33,426.65
2007	5,522.97	39.00	141.61	25.46	3,605.79
2010	64,245.34	39.00	1,647.31	27.21	44,815.78
2011	116,559.46	39.00	2,988.69	27.81	83,109.81
2012	1,920.72	39.00	49.25	28.42	1,399.75
2013	645,473.78	39.00	16,550.52	29.05	480,780.45
2014	7,874.61	39.00	201.91	29.69	5,994.57
2016	70,154.05	39.00	1,798.81	31.01	55,788.46
2017	8,939.19	39.00	229.21	31.70	7,266.43
2018	6,412.66	39.00	164.43	32.41	5,328.47
2019	664,392.78	39.00	17,035.62	33.13	564,440.91
2020	2,543,133.58	39.00	65,208.20	33.88	2,209,297.47
2021	2,525,382.86	39.00	64,753.06	34.65	2,243,740.73
2022	4,948,991.53	39.00	126,896.54	35.45	4,498,402.12
2023	6,176,829.39	39.00	158,379.39	36.28	5,745,290.26
2024	6,389,083.84	39.00	163,821.78	37.14	6,084,210.73
2025	4,207,575.31	39.00	107,885.97	38.04	4,103,960.01
2026	982,285.95	39.00	25,186.68	38.75	976,018.66

PAWC - Water Operations
Water Operations
311.50 Pumping Equipment - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	29,718,052.72	39.00	761,997.25	35.86	27,322,170.23

Composite Average Remaining Life ... *35.86 Years*

PAWC - Water Operations
Water Operations
311.52 Pumping Equipment - SOS
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1995	500.74	39.00	12.84	19.22	246.77
1997	242.21	39.00	6.21	20.20	125.42
2007	302,979.30	39.00	7,768.66	25.46	197,806.73
2008	106,545.19	39.00	2,731.91	26.03	71,121.25
2009	90,997.69	39.00	2,333.26	26.61	62,096.49
2010	665,309.01	39.00	17,059.11	27.21	464,101.22
2011	673,316.56	39.00	17,264.43	27.81	480,091.53
2012	213,917.90	39.00	5,485.04	28.42	155,895.71
2013	1,167,611.55	39.00	29,938.60	29.05	869,694.21
2014	1,470,086.74	39.00	37,694.33	29.69	1,119,107.26
2015	1,333,851.63	39.00	34,201.14	30.34	1,037,817.79
2016	1,650,181.56	39.00	42,312.12	31.01	1,312,270.49
2017	2,025,413.90	39.00	51,933.41	31.70	1,646,405.87
2018	970,045.83	39.00	24,872.84	32.41	806,039.22
2019	325,033.26	39.00	8,334.14	33.13	276,134.95
2020	119,694.64	39.00	3,069.08	33.88	103,982.37
2021	268,274.05	39.00	6,878.78	34.65	238,354.91
2023	21,622.78	39.00	554.43	36.28	20,112.12
Total	11,405,624.54	39.00	292,450.34	30.30	8,861,404.30

Composite Average Remaining Life ... 30.30 Years

PAWC - Water Operations
Water Operations
311.53 Pumping Equipment - Water Treatment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 39 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1910	137.73	0.00	0.00	0.00	0.00
1917	133.00	0.00	0.00	0.00	0.00
1919	8,727.40	0.00	0.00	0.00	0.00
1928	134.45	0.00	0.00	0.00	0.00
1929	274.09	0.00	0.00	0.00	0.00
1930	10.36	0.00	0.00	0.00	0.00
1931	3,609.84	0.00	0.00	0.00	0.00
1937	1,084.39	0.00	0.00	0.00	0.00
1939	195.67	0.00	0.00	0.00	0.00
1941	233.57	0.00	0.00	0.00	0.00
1942	901.65	0.00	0.00	0.00	0.00
1944	22.40	0.00	0.00	0.00	0.00
1945	612.26	0.00	0.00	0.00	0.00
1946	36.51	0.00	0.00	0.00	0.00
1947	175.93	0.00	0.00	0.00	0.00
1948	1,721.87	0.00	0.00	0.00	0.00
1950	176.72	39.00	4.53	0.81	3.66
1951	14,946.31	39.00	383.24	1.14	438.16
1952	33,162.46	39.00	850.31	1.50	1,278.84
1953	14,955.45	39.00	383.47	1.86	713.92
1954	9,781.62	39.00	250.81	2.23	559.61
1955	2,307.03	39.00	59.15	2.60	153.59
1956	984.21	39.00	25.24	2.97	74.87
1957	15,308.52	39.00	392.52	3.34	1,311.61
1958	2,821.39	39.00	72.34	3.72	268.79
1959	30,581.95	39.00	784.15	4.09	3,210.00
1960	74,879.69	39.00	1,919.98	4.47	8,584.26

PAWC - Water Operations
Water Operations
311.53 Pumping Equipment - Water Treatment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 39 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1961	172,778.06	39.00	4,430.18	4.85	21,498.14
1962	3,846.01	39.00	98.62	5.23	516.10
1963	21,459.38	39.00	550.24	5.62	3,091.62
1964	32,655.26	39.00	837.31	6.00	5,026.50
1965	199,549.50	39.00	5,116.63	6.39	32,697.08
1966	11,660.13	39.00	298.98	6.78	2,027.19
1967	28,880.66	39.00	740.53	7.17	5,310.60
1968	95,517.72	39.00	2,449.16	7.57	18,528.99
1969	307,919.76	39.00	7,895.34	7.96	62,849.61
1970	5,567.23	39.00	142.75	8.36	1,193.18
1971	51,979.05	39.00	1,332.79	8.76	11,672.14
1972	423,176.07	39.00	10,850.61	9.16	99,385.65
1973	5,691,249.88	39.00	145,928.70	9.56	1,395,656.08
1974	22,347.74	39.00	573.02	9.97	5,713.15
1975	112,278.57	39.00	2,878.92	10.38	29,882.12
1976	70,968.42	39.00	1,819.69	10.79	19,636.06
1977	19,388.63	39.00	497.14	11.21	5,570.60
1978	9,787.72	39.00	250.97	11.62	2,916.66
1979	173,726.38	39.00	4,454.50	12.04	53,638.93
1980	146,097.95	39.00	3,746.08	12.46	46,689.64
1981	505,230.20	39.00	12,954.55	12.89	166,968.63
1982	684,624.45	39.00	17,554.38	13.32	233,775.83
1983	229,348.41	39.00	5,880.70	13.75	80,851.51
1984	311,320.96	39.00	7,982.55	14.18	113,220.00
1985	643,142.22	39.00	16,490.74	14.62	241,119.18
1986	407,620.75	39.00	10,451.76	15.06	157,436.32
1987	667,775.86	39.00	17,122.37	15.51	265,539.70

PAWC - Water Operations
Water Operations
311.53 Pumping Equipment - Water Treatment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1988	283,751.47	39.00	7,275.64	15.96	116,100.12
1989	418,946.17	39.00	10,742.15	16.41	176,281.76
1990	4,401,706.59	39.00	112,863.66	16.87	1,903,706.91
1991	1,019,819.94	39.00	26,149.09	17.33	453,123.49
1992	985,449.05	39.00	25,267.79	17.79	449,619.26
1993	1,214,131.28	39.00	31,131.40	18.26	568,590.78
1994	342,251.03	39.00	8,775.62	18.74	164,449.36
1995	3,082,931.12	39.00	79,049.09	19.22	1,519,273.17
1996	1,060,183.76	39.00	27,184.05	19.70	535,645.43
1997	3,345,175.84	39.00	85,773.28	20.20	1,732,199.88
1998	1,034,657.53	39.00	26,529.54	20.69	548,926.45
1999	3,189,091.46	39.00	81,771.14	21.19	1,733,017.83
2000	2,409,237.91	39.00	61,775.00	21.70	1,340,615.26
2001	2,395,199.84	39.00	61,415.05	22.22	1,364,443.88
2002	1,311,520.09	39.00	33,628.54	22.74	764,646.79
2003	2,219,803.79	39.00	56,917.74	23.27	1,324,323.75
2004	383,622.14	39.00	9,836.41	23.80	234,145.49
2005	64,788.35	39.00	1,661.23	24.35	40,447.67
2006	234,701.03	39.00	6,017.94	24.90	149,853.13
2007	1,472,539.40	39.00	37,757.22	25.46	961,379.87
2008	315,637.75	39.00	8,093.23	26.03	210,695.11
2009	166,046.08	39.00	4,257.57	26.61	113,309.24
2010	222,616.68	39.00	5,708.09	27.21	155,291.26
2011	329,273.84	39.00	8,442.87	27.81	234,780.47
2012	460,640.66	39.00	11,811.24	28.42	335,698.42
2013	203,020.58	39.00	5,205.63	29.05	151,219.66
2014	121,523.26	39.00	3,115.96	29.69	92,509.89

PAWC - Water Operations
Water Operations
311.53 Pumping Equipment - Water Treatment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2015	386,471.90	39.00	9,909.48	30.34	300,698.67
2016	297,614.05	39.00	7,631.09	31.01	236,671.01
2017	66,657.04	39.00	1,709.15	31.70	54,183.76
2018	891,894.73	39.00	22,868.97	32.41	741,101.20
2019	112,378.15	39.00	2,881.48	33.13	95,471.88
2020	142,298.54	39.00	3,648.66	33.88	123,619.07
2021	438,896.41	39.00	11,253.69	34.65	389,948.70
2022	118,121.94	39.00	3,028.75	35.45	107,367.33
2023	587,754.33	39.00	15,070.54	36.28	546,691.36
2024	25,792.73	39.00	661.35	37.14	24,561.96
2025	1,130,062.20	39.00	28,975.80	38.04	1,102,233.41
Total	48,154,022.10	32.22	1,234,250.05	19.60	24,195,851.19

Composite Average Remaining Life ... *19.60 Years*

PAWC - Water Operations
Water Operations
311.54 Pumping Equipment - Transmission
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1999	35,292.32	39.00	904.93	21.19	19,178.57
2000	475,480.08	39.00	12,191.73	21.70	264,579.87
2001	36,531.40	39.00	936.70	22.22	20,810.39
2002	538,352.70	39.00	13,803.84	22.74	313,872.18
2003	70,588.30	39.00	1,809.95	23.27	42,112.62
2004	268,409.81	39.00	6,882.27	23.80	163,825.13
2005	16,038.24	39.00	411.23	24.35	10,012.75
2006	189,538.24	39.00	4,859.93	24.90	121,017.36
2007	1,098,486.35	39.00	28,166.17	25.46	717,171.07
2008	658,548.44	39.00	16,885.77	26.03	439,595.50
2009	1,314,447.17	39.00	33,703.59	26.61	896,973.94
2010	291,357.56	39.00	7,470.67	27.21	203,243.00
2011	161,831.12	39.00	4,149.49	27.81	115,389.63
2012	145,779.02	39.00	3,737.90	28.42	106,238.53
2013	243,526.60	39.00	6,244.24	29.05	181,390.53
2015	53,358.27	39.00	1,368.15	30.34	41,515.98
2016	287,116.14	39.00	7,361.91	31.01	228,322.78
2017	135,483.94	39.00	3,473.93	31.70	110,131.34
2018	157,143.96	39.00	4,029.31	32.41	130,575.47
2019	27,912.06	39.00	715.69	33.13	23,712.94
2020	81,516.58	39.00	2,090.16	33.88	70,815.93
2021	3,000.02	39.00	76.92	34.65	2,665.44
2022	48,563.86	39.00	1,245.22	35.45	44,142.28
2023	2,922,287.54	39.00	74,930.05	36.28	2,718,124.31
2024	28,865.32	39.00	740.13	37.14	27,487.93
2025	543,332.19	39.00	13,931.52	38.04	529,952.15

PAWC - Water Operations
Water Operations
311.54 Pumping Equipment - Transmission
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	9,832,787.23	39.00	252,121.39	29.92	7,542,857.63

Composite Average Remaining Life ... 29.92 Years

PAWC - Water Operations
Water Operations
320.10 Purification System - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1900	14,836.59	0.00	0.00	0.00	0.00
1903	17,503.17	0.00	0.00	0.00	0.00
1906	1,384.00	0.00	0.00	0.00	0.00
1907	187.12	0.00	0.00	0.00	0.00
1909	3,521.00	0.00	0.00	0.00	0.00
1910	1,630.96	0.00	0.00	0.00	0.00
1920	2.00	0.00	0.00	0.00	0.00
1921	42,429.29	0.00	0.00	0.00	0.00
1924	1,765.00	0.00	0.00	0.00	0.00
1927	254.95	50.00	5.10	0.50	2.55
1928	129.00	50.00	2.58	0.64	1.66
1929	49,801.23	50.00	996.02	0.87	864.60
1931	5,319.00	50.00	106.38	1.37	145.86
1935	11.26	50.00	0.23	2.44	0.55
1947	278.00	50.00	5.56	5.88	32.71
1949	14,516.83	50.00	290.34	6.49	1,884.26
1951	7,786.36	50.00	155.73	7.11	1,106.96
1952	30,268.98	50.00	605.38	7.42	4,492.96
1953	78,423.13	50.00	1,568.46	7.74	12,136.89
1954	24,571.68	50.00	491.43	8.06	3,959.69
1955	1,595.53	50.00	31.91	8.38	267.41
1956	179.54	50.00	3.59	8.71	31.26
1957	1,208.73	50.00	24.17	9.03	218.40
1958	1,634.57	50.00	32.69	9.37	306.21
1959	27,605.73	50.00	552.11	9.70	5,356.78
1961	80,918.05	50.00	1,618.36	10.38	16,805.87
1962	5,544.41	50.00	110.89	10.73	1,189.96

PAWC - Water Operations
Water Operations
320.10 Purification System - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1963	3,151.05	50.00	63.02	11.08	698.39
1964	977.76	50.00	19.56	11.44	223.64
1965	219,097.73	50.00	4,381.95	11.80	51,686.08
1966	310.40	50.00	6.21	12.16	75.48
1967	184.10	50.00	3.68	12.53	46.12
1968	3,136.88	50.00	62.74	12.90	809.17
1969	1,371,242.31	50.00	27,424.85	13.27	364,044.64
1970	4,526.51	50.00	90.53	13.66	1,236.26
1971	405.57	50.00	8.11	14.04	113.90
1972	822,086.47	50.00	16,441.73	14.43	237,316.24
1973	30,712.90	50.00	614.26	14.83	9,109.86
1974	84.31	50.00	1.69	15.23	25.69
1975	177,976.84	50.00	3,559.54	15.64	55,675.04
1976	25,568.85	50.00	511.38	16.05	8,210.14
1977	915.82	50.00	18.32	16.47	301.76
1979	6,225.74	50.00	124.51	17.33	2,158.29
1980	1,374.20	50.00	27.48	17.77	488.47
1981	8,541.92	50.00	170.84	18.22	3,112.51
1982	2,891,251.18	50.00	57,825.02	18.67	1,079,721.87
1983	136,339.49	50.00	2,726.79	19.13	52,171.11
1984	5,629.18	50.00	112.58	19.60	2,206.75
1985	1,677,659.54	50.00	33,553.19	20.08	673,645.99
1986	185,741.29	50.00	3,714.83	20.56	76,380.79
1987	27,765.36	50.00	555.31	21.05	11,691.19
1988	5,166,890.45	50.00	103,337.81	21.55	2,227,416.42
1989	3,568,437.10	50.00	71,368.74	22.06	1,574,737.75
1990	18,528,369.54	50.00	370,567.38	22.58	8,368,953.43

PAWC - Water Operations
Water Operations
320.10 Purification System - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1991	5,306,665.42	50.00	106,133.31	23.11	2,453,066.40
1992	10,136,881.74	50.00	202,737.63	23.65	4,795,119.80
1993	23,934,631.84	50.00	478,692.63	24.20	11,584,761.50
1994	1,782,330.61	50.00	35,646.61	24.76	882,622.78
1995	4,832,497.22	50.00	96,649.94	25.33	2,448,215.54
1996	378,441.77	50.00	7,568.84	25.91	196,126.54
1997	9,239,163.06	50.00	184,783.26	26.51	4,897,789.56
1998	910,429.68	50.00	18,208.59	27.11	493,648.66
1999	9,760,277.34	50.00	195,205.54	27.73	5,412,704.96
2000	355,612.04	50.00	7,112.24	28.36	201,691.84
2001	1,111,461.79	50.00	22,229.24	29.00	644,684.63
2003	2,316.85	50.00	46.34	30.33	1,405.35
2004	38,706.38	50.00	774.13	31.01	24,008.47
2005	80,991.72	50.00	1,619.83	31.71	51,369.58
2006	5,578,655.28	50.00	111,573.10	32.43	3,617,988.28
2007	172,593.45	50.00	3,451.87	33.16	114,452.02
2008	553,951.20	50.00	11,079.02	33.90	375,596.60
2009	589,198.43	50.00	11,783.97	34.66	408,462.34
2010	372,072.85	50.00	7,441.46	35.44	263,722.78
2011	9,820,334.80	50.00	196,406.69	36.23	7,116,440.42
2012	19,735,264.61	50.00	394,705.28	37.04	14,621,184.45
2013	3,631,525.71	50.00	72,630.51	37.87	2,750,526.45
2014	2,102,898.32	50.00	42,057.97	38.71	1,628,220.90
2016	562,914.51	50.00	11,258.29	40.45	455,410.96
2017	370,078.55	50.00	7,401.57	41.34	306,015.36
2018	46,774,088.85	50.00	935,481.76	42.25	39,528,051.08
2019	1,284,580.07	50.00	25,691.60	43.18	1,109,347.05

PAWC - Water Operations
Water Operations
320.10 Purification System - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: ***50*** ***Survivor Curve:*** ***S1***

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2021	12,889,604.34	50.00	257,792.08	45.07	11,619,562.25
2022	144,098.02	50.00	2,881.96	46.04	132,686.02
2023	15,613,629.75	50.00	312,272.59	47.02	14,682,538.91
2024	49,463.77	50.00	989.28	48.01	47,491.15
2026	15,919,008.04	50.00	318,380.15	49.75	15,839,333.02
Total	239,312,276.61	44.77	4,784,580.26	34.18	163,555,307.20

Composite Average Remaining Life ... ***34.18 Years***

PAWC - Water Operations
Water Operations
320.11 Purification System - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1930	38.33	50.00	0.77	1.11	0.85
1931	673.67	50.00	13.47	1.37	18.47
1932	5.08	50.00	0.10	1.63	0.17
1933	89.62	50.00	1.79	1.90	3.40
1934	57.99	50.00	1.16	2.17	2.51
1937	344.32	50.00	6.89	2.99	20.59
1938	191.96	50.00	3.84	3.27	12.55
1941	223.77	50.00	4.48	4.12	18.44
1942	10.23	50.00	0.20	4.41	0.90
1944	85.22	50.00	1.70	4.99	8.51
1946	899.12	50.00	17.98	5.58	100.39
1947	7,414.52	50.00	148.29	5.88	872.29
1948	156.50	50.00	3.13	6.18	19.36
1950	93.33	50.00	1.87	6.80	12.69
1951	97,441.53	50.00	1,948.83	7.11	13,852.88
1952	1,116.09	50.00	22.32	7.42	165.67
1953	216,852.04	50.00	4,337.04	7.74	33,560.36
1954	36,332.33	50.00	726.65	8.06	5,854.90
1955	24,372.05	50.00	487.44	8.38	4,084.69
1956	22,525.53	50.00	450.51	8.71	3,921.91
1957	9,422.16	50.00	188.44	9.03	1,702.46
1958	105,339.93	50.00	2,106.80	9.37	19,733.53
1959	12,096.02	50.00	241.92	9.70	2,347.18
1960	8,140.12	50.00	162.80	10.04	1,634.79
1961	198.33	50.00	3.97	10.38	41.19
1962	8,495.47	50.00	169.91	10.73	1,823.33
1963	394.09	50.00	7.88	11.08	87.34

PAWC - Water Operations
Water Operations
320.11 Purification System - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1964	1,806.05	50.00	36.12	11.44	413.10
1965	8,538.74	50.00	170.77	11.80	2,014.32
1966	2,005.35	50.00	40.11	12.16	487.63
1967	7,018.23	50.00	140.36	12.53	1,758.16
1968	511.01	50.00	10.22	12.90	131.82
1969	20,866.95	50.00	417.34	13.27	5,539.87
1970	942.79	50.00	18.86	13.66	257.49
1971	1,919.05	50.00	38.38	14.04	538.95
1972	29,476.11	50.00	589.52	14.43	8,509.03
1973	253,029.31	50.00	5,060.59	14.83	75,051.91
1974	142.87	50.00	2.86	15.23	43.53
1975	10,469.08	50.00	209.38	15.64	3,274.96
1976	1,710.57	50.00	34.21	16.05	549.26
1977	2,581.12	50.00	51.62	16.47	850.47
1978	12,162.41	50.00	243.25	16.90	4,111.15
1979	5,445.81	50.00	108.92	17.33	1,887.91
1980	3,288.95	50.00	65.78	17.77	1,169.08
1981	4,856.45	50.00	97.13	18.22	1,769.59
1982	16,151.13	50.00	323.02	18.67	6,031.55
1983	90,281.38	50.00	1,805.63	19.13	34,546.71
1984	37,024.11	50.00	740.48	19.60	14,514.16
1985	347,917.69	50.00	6,958.35	20.08	139,702.57
1986	387,464.23	50.00	7,749.28	20.56	159,333.58
1987	34,765.72	50.00	695.31	21.05	14,638.84
1988	116,753.67	50.00	2,335.07	21.55	50,331.83
1989	604,270.35	50.00	12,085.41	22.06	266,662.21
1990	374,040.70	50.00	7,480.81	22.58	168,947.90

PAWC - Water Operations
Water Operations
320.11 Purification System - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1991	115,559.04	50.00	2,311.18	23.11	53,418.48
1992	63.86	50.00	1.28	23.65	30.21
1993	3,883.73	50.00	77.67	24.20	1,879.79
1994	828,996.95	50.00	16,579.94	24.76	410,525.18
1995	26,338.50	50.00	526.77	25.33	13,343.48
1996	506,597.41	50.00	10,131.95	25.91	262,542.89
1997	144,312.88	50.00	2,886.26	26.51	76,501.96
1998	488.98	50.00	9.78	27.11	265.13
1999	23.75	50.00	0.47	27.73	13.17
2000	1,075.90	50.00	21.52	28.36	610.22
2001	718.33	50.00	14.37	29.00	416.66
2002	765,135.02	50.00	15,302.70	29.66	453,852.90
2003	172,667.82	50.00	3,453.36	30.33	104,736.39
2004	22,916.59	50.00	458.33	31.01	14,214.51
2005	40,094.38	50.00	801.89	31.71	25,430.15
2006	443,694.95	50.00	8,873.90	32.43	287,754.49
2007	320,332.86	50.00	6,406.66	33.16	212,422.55
2008	244,767.09	50.00	4,895.34	33.90	165,959.90
2009	280,432.56	50.00	5,608.65	34.66	194,410.12
2010	1,797.26	50.00	35.95	35.44	1,273.89
2011	104,962.85	50.00	2,099.26	36.23	76,062.77
2012	1,259,860.90	50.00	25,197.22	37.04	933,387.97
2013	856,989.97	50.00	17,139.80	37.87	649,086.30
2014	259,723.14	50.00	5,194.46	38.71	201,097.05
2016	136,074.76	50.00	2,721.50	40.45	110,087.65
2017	233,389.04	50.00	4,667.78	41.34	192,987.76
2018	1,128,217.21	50.00	22,564.34	42.25	953,438.72

PAWC - Water Operations
Water Operations
320.11 Purification System - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2019	1,944,561.54	50.00	38,891.23	43.18	1,679,298.68
2020	686,340.74	50.00	13,726.81	44.12	605,618.71
2021	1,727,607.69	50.00	34,552.15	45.07	1,557,382.57
2023	152,302.59	50.00	3,046.05	47.02	143,220.30
2025	12,672,341.40	50.00	253,446.82	49.00	12,419,113.98
Total	28,010,718.87	50.00	560,214.37	40.79	22,853,353.49

Composite Average Remaining Life ... 40.79 Years

PAWC - Water Operations
Water Operations
320.20 Chemical Treatment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 42 **Survivor Curve:** R0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1965	14,355.28	42.00	341.79	9.89	3,379.31
1966	1,688.98	42.00	40.21	10.29	413.72
1967	688.22	42.00	16.39	10.69	175.18
1968	59,108.21	42.00	1,407.32	11.10	15,616.04
1969	2,258.71	42.00	53.78	11.50	618.72
1970	8,536.97	42.00	203.26	11.92	2,422.09
1971	15,632.78	42.00	372.20	12.33	4,589.86
1972	32,603.76	42.00	776.27	12.75	9,897.89
1973	257,616.10	42.00	6,133.64	13.17	80,799.57
1974	31,941.16	42.00	760.49	13.60	10,342.92
1975	42,769.93	42.00	1,018.32	14.03	14,288.64
1976	1,073,863.59	42.00	25,567.85	14.47	369,904.09
1977	28,840.00	42.00	686.66	14.91	10,236.81
1978	51,727.94	42.00	1,231.60	15.35	18,909.62
1979	20,509.89	42.00	488.32	15.80	7,717.53
1980	61,671.01	42.00	1,468.34	16.26	23,874.49
1981	192,581.16	42.00	4,585.21	16.72	76,666.73
1982	7,527.22	42.00	179.22	17.19	3,080.09
1983	79,951.11	42.00	1,903.57	17.66	33,613.19
1984	292,693.25	42.00	6,968.80	18.13	126,377.00
1985	978,744.46	42.00	23,303.14	18.62	433,829.61
1986	2,083,104.19	42.00	49,597.07	19.10	947,547.31
1987	719,004.40	42.00	17,118.93	19.60	335,498.35
1988	111,285.48	42.00	2,649.62	20.10	53,249.89
1989	1,052,756.10	42.00	25,065.29	20.60	516,382.99
1990	436,377.41	42.00	10,389.80	21.11	219,341.18
1991	706,070.04	42.00	16,810.97	21.63	363,569.46

PAWC - Water Operations
Water Operations
320.20 Chemical Treatment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *42* ***Survivor Curve:*** *R0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1992	4,299,099.40	42.00	102,358.18	22.15	2,266,984.92
1993	99,614.98	42.00	2,371.75	22.67	53,775.77
1994	739,039.18	42.00	17,595.94	23.21	408,318.43
1995	4,638,977.20	42.00	110,450.40	23.74	2,622,270.90
1996	2,154,720.70	42.00	51,302.21	24.28	1,245,796.63
1997	3,334,739.32	42.00	79,397.52	24.83	1,971,431.13
1998	2,072,021.04	42.00	49,333.19	25.38	1,252,119.57
1999	7,194,288.92	42.00	171,290.36	25.94	4,442,773.72
2000	67,552.81	42.00	1,608.38	26.50	42,617.50
2001	2,457,933.54	42.00	58,521.46	27.06	1,583,667.93
2002	77,713.84	42.00	1,850.31	27.63	51,124.39
2003	1,964,206.88	42.00	46,766.22	28.20	1,318,914.08
2004	1,990,696.83	42.00	47,396.93	28.78	1,364,005.52
2005	2,161,553.64	42.00	51,464.89	29.36	1,510,873.19
2006	499,472.13	42.00	11,892.04	29.94	356,039.54
2007	1,947,345.46	42.00	46,364.76	30.52	1,415,268.80
2008	1,350,615.98	42.00	32,157.10	31.11	1,000,475.89
2009	82,919.55	42.00	1,974.25	31.70	62,588.15
2010	438,539.91	42.00	10,441.29	32.29	337,193.87
2011	1,033,930.77	42.00	24,617.08	32.89	809,609.17
2012	685,575.24	42.00	16,323.01	33.48	546,560.55
2013	1,516,285.09	42.00	36,101.56	34.08	1,230,387.82
2014	304,829.68	42.00	7,257.75	34.68	251,698.52
2015	3,645,945.28	42.00	86,807.09	35.28	3,062,598.61
2016	4,980,688.04	42.00	118,586.27	35.88	4,255,139.84
2017	2,403,250.89	42.00	57,219.51	36.49	2,087,703.65
2018	1,114,876.03	42.00	26,544.32	37.09	984,554.53

PAWC - Water Operations
Water Operations
320.20 Chemical Treatment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *42* ***Survivor Curve:*** *R0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2019	3,459,004.02	42.00	82,356.17	37.70	3,104,639.19
2020	7,834,644.60	42.00	186,536.73	38.31	7,145,609.12
2021	11,081,791.67	42.00	263,848.75	38.92	10,268,266.09
2022	13,412,801.43	42.00	319,348.25	39.53	12,623,712.88
2023	17,240,492.29	42.00	410,482.56	40.14	16,478,617.45
2024	10,795,822.82	42.00	257,040.05	40.76	10,477,197.18
2025	37,804,284.62	42.00	900,090.29	41.38	37,245,591.91
2026	718,747.56	42.00	17,112.81	41.84	716,084.61
Total	163,967,928.69	42.00	3,903,947.44	35.42	138,276,553.33

Composite Average Remaining Life ... 35.42 Years

PAWC - Water Operations
Water Operations
320.30 Granular Activated Carbon

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 11 **Survivor Curve:** L0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1992	755.89	11.00	68.71	1.80	123.57
1994	3,127.19	11.00	284.25	2.06	584.37
1995	22,529.51	11.00	2,047.85	2.17	4,449.59
1996	19,021.10	11.00	1,728.95	2.28	3,943.09
1998	24,638.62	11.00	2,239.56	2.48	5,561.23
1999	9,019.00	11.00	819.79	2.59	2,119.77
2000	242,357.48	11.00	22,029.42	2.70	59,413.29
2001	565,915.16	11.00	51,439.64	2.82	144,934.06
2002	259,574.29	11.00	23,594.36	2.95	69,576.35
2003	11,549.71	11.00	1,049.83	3.09	3,245.68
2007	133,689.45	11.00	12,151.89	3.78	45,937.61
2008	22,525.60	11.00	2,047.50	3.98	8,152.62
2009	290,056.89	11.00	26,365.12	4.20	110,602.17
2010	252,059.62	11.00	22,911.31	4.42	101,263.06
2011	762,602.88	11.00	69,317.84	4.66	322,839.33
2012	382,409.40	11.00	34,759.63	4.91	170,586.17
2013	1,278,638.81	11.00	116,223.63	5.17	600,981.65
2014	648,647.47	11.00	58,959.70	5.45	321,205.03
2015	2,088.22	11.00	189.81	5.74	1,089.36
2016	110,250.14	11.00	10,021.34	6.05	60,583.61
2017	406,505.55	11.00	36,949.88	6.37	235,283.34
2018	1,504,916.77	11.00	136,791.48	6.71	917,401.28
2019	1,347,102.38	11.00	122,446.72	7.06	864,868.71
2020	874,697.64	11.00	79,506.84	7.44	591,491.52
2021	768,470.48	11.00	69,851.18	7.85	548,360.38
2022	3,315,089.96	11.00	301,329.66	8.32	2,506,187.72
2023	7,727,540.14	11.00	702,405.38	8.86	6,220,035.34

PAWC - Water Operations
Water Operations
320.30 Granular Activated Carbon

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *11* ***Survivor Curve:*** *L0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2024	2,226,099.32	11.00	202,344.36	9.47	1,917,005.45
2025	799,177.36	11.00	72,642.32	10.18	739,503.00
Total	24,011,056.03	11.00	2,182,517.92	7.60	16,577,328.36

Composite Average Remaining Life ... 7.60 Years

PAWC - Water Operations
Water Operations
320.37 Waste Handling and Treatment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *30* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1991	6,031,805.84	30.00	201,059.90	4.09	823,212.72
1997	591,680.33	30.00	19,722.65	6.54	129,045.23
1999	1,596,632.54	30.00	53,221.01	7.61	404,908.63
2000	699,453.00	30.00	23,315.07	8.19	190,843.71
2002	3,157.82	30.00	105.26	9.43	992.36
2003	255,901.42	30.00	8,530.03	10.09	86,045.27
2004	25,359.24	30.00	845.31	10.77	9,106.47
2005	13,973.57	30.00	465.78	11.48	5,347.19
2013	15,011.73	30.00	500.39	17.83	8,921.96
2014	585,331.37	30.00	19,511.02	18.70	364,828.13
2015	1,026,831.36	30.00	34,227.66	19.58	670,226.94
2016	3,706,337.79	30.00	123,544.41	20.48	2,530,053.71
2017	16,485.57	30.00	549.52	21.39	11,753.37
2023	749,793.89	30.00	24,993.09	27.06	676,435.43
2025	5,307,125.52	30.00	176,903.92	29.02	5,133,208.32
2026	10,000.00	30.00	333.33	29.75	9,917.93
Total	20,634,880.99	30.00	687,828.35	16.07	11,054,847.37

Composite Average Remaining Life ... *16.07 Years*

PAWC - Water Operations
Water Operations
330.00 Distribution Reservoirs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 65 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1906	5,109.66	65.00	78.61	3.52	276.87
1907	47,241.62	65.00	726.79	3.85	2,799.26
1911	21,098.83	65.00	324.60	5.20	1,686.85
1912	4,854.07	65.00	74.68	5.53	412.89
1922	37,387.44	65.00	575.19	8.88	5,108.15
1923	14,226.55	65.00	218.87	9.22	2,017.41
1924	1,157.77	65.00	17.81	9.56	170.24
1929	2,414.86	65.00	37.15	11.26	418.50
1931	5,386.24	65.00	82.87	11.96	990.79
1933	64.84	65.00	1.00	12.65	12.62
1935	288.99	65.00	4.45	13.36	59.39
1938	6,784.14	65.00	104.37	14.43	1,505.85
1940	15,662.18	65.00	240.96	15.15	3,650.62
1941	8,303.02	65.00	127.74	15.52	1,981.98
1943	64.86	65.00	1.00	16.25	16.22
1949	20,278.60	65.00	311.98	18.51	5,776.09
1950	11,200.00	65.00	172.31	18.90	3,256.82
1951	84,442.64	65.00	1,299.12	19.29	25,060.32
1952	1,053.28	65.00	16.20	19.68	318.95
1953	765,700.78	65.00	11,780.00	20.08	236,516.20
1954	134,575.67	65.00	2,070.39	20.48	42,394.10
1955	58,990.21	65.00	907.54	20.88	18,947.19
1956	48,644.49	65.00	748.38	21.28	15,927.24
1957	84,452.90	65.00	1,299.27	21.69	28,181.40
1958	76,240.83	65.00	1,172.93	22.10	25,923.77
1959	166,796.84	65.00	2,566.10	22.52	57,779.11
1960	24,552.85	65.00	377.74	22.93	8,663.28

PAWC - Water Operations
Water Operations
330.00 Distribution Reservoirs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 65 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1961	401,183.97	65.00	6,172.06	23.36	144,158.97
1962	186,962.54	65.00	2,876.34	23.78	68,406.75
1963	15,157.25	65.00	233.19	24.21	5,645.99
1964	45,588.11	65.00	701.35	24.65	17,285.45
1965	55,626.04	65.00	855.78	25.08	21,465.92
1966	394,465.55	65.00	6,068.70	25.53	154,904.78
1967	806,984.51	65.00	12,415.13	25.97	322,433.89
1968	282,717.71	65.00	4,349.50	26.42	114,920.76
1969	84,335.85	65.00	1,297.47	26.88	34,871.03
1970	69,869.85	65.00	1,074.92	27.34	29,383.79
1971	407,403.58	65.00	6,267.74	27.80	174,239.42
1972	173,285.68	65.00	2,665.93	28.27	75,362.33
1973	3,532,689.75	65.00	54,349.02	28.74	1,562,088.84
1974	749,158.82	65.00	11,525.51	29.22	336,788.71
1975	390,034.66	65.00	6,000.53	29.71	178,247.56
1976	399,924.61	65.00	6,152.68	30.19	185,775.01
1977	199,610.20	65.00	3,070.92	30.69	94,243.87
1978	447,321.54	65.00	6,881.86	31.19	214,636.54
1979	304,051.08	65.00	4,677.70	31.69	148,259.72
1980	1,076.03	65.00	16.55	32.21	533.15
1981	54,623.64	65.00	840.36	32.72	27,500.05
1982	1,047,267.09	65.00	16,111.79	33.25	535,664.52
1983	1,394,266.63	65.00	21,450.24	33.78	724,531.87
1984	32,354.18	65.00	497.76	34.31	17,079.24
1985	1,752,002.99	65.00	26,953.87	34.86	939,506.82
1986	1,778,699.21	65.00	27,364.58	35.40	968,820.87
1987	240,248.85	65.00	3,696.13	35.96	132,918.62

PAWC - Water Operations
Water Operations
330.00 Distribution Reservoirs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 65 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1988	3,095,526.72	65.00	47,623.44	36.53	1,739,453.61
1989	5,055,328.77	65.00	77,774.22	37.09	2,885,023.65
1990	6,129,161.37	65.00	94,294.70	37.67	3,552,374.59
1991	675,140.24	65.00	10,386.76	38.26	397,370.67
1992	1,315,378.04	65.00	20,236.57	38.85	786,210.87
1993	7,639,604.37	65.00	117,532.27	39.45	4,636,716.89
1994	2,027,808.17	65.00	31,197.02	40.06	1,249,759.80
1995	1,585,876.37	65.00	24,398.08	40.68	992,411.14
1996	3,624,223.56	65.00	55,757.23	41.30	2,302,898.48
1997	2,280,357.49	65.00	35,082.39	41.93	1,471,163.04
1998	1,215,386.77	65.00	18,698.24	42.58	796,143.46
1999	5,099,721.28	65.00	78,457.18	43.23	3,391,567.13
2000	3,634,244.00	65.00	55,911.40	43.89	2,453,986.52
2001	5,032,730.61	65.00	77,426.55	44.56	3,450,228.93
2002	2,276,714.48	65.00	35,026.34	45.24	1,584,594.60
2003	2,410,479.28	65.00	37,084.26	45.93	1,703,291.30
2004	1,519,412.36	65.00	23,375.55	46.63	1,089,968.29
2005	3,825,628.33	65.00	58,855.77	47.34	2,786,181.49
2006	2,881,396.25	65.00	44,329.13	48.06	2,130,356.02
2007	1,534,816.04	65.00	23,612.53	48.79	1,152,044.14
2008	236,167.51	65.00	3,633.34	49.53	179,956.62
2009	24,836.32	65.00	382.10	50.28	19,213.03
2010	797,440.05	65.00	12,268.30	51.04	626,233.01
2011	249,853.14	65.00	3,843.89	51.82	199,196.90
2012	1,177,587.89	65.00	18,116.72	52.61	953,052.26
2013	4,260,578.06	65.00	65,547.29	53.41	3,500,680.22
2014	6,068,629.18	65.00	93,363.44	54.22	5,062,024.81

PAWC - Water Operations
Water Operations
330.00 Distribution Reservoirs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2015	376,780.65	65.00	5,796.62	55.04	319,049.54
2016	8,406,094.89	65.00	129,324.42	55.88	7,226,304.98
2017	5,265,669.74	65.00	81,010.23	56.72	4,595,273.36
2018	3,560,709.42	65.00	54,780.09	57.59	3,154,647.55
2019	3,422,777.21	65.00	52,658.06	58.46	3,078,437.03
2021	2,281,005.92	65.00	35,092.37	60.25	2,114,376.59
2022	2,653,783.47	65.00	40,827.40	61.17	2,497,435.35
2023	2,840,290.76	65.00	43,696.74	62.10	2,713,580.51
2024	6,704,284.79	65.00	103,142.75	63.05	6,503,166.10
2025	6,304,653.01	65.00	96,994.57	64.01	6,208,820.21
2026	4,815,061.04	65.00	74,077.79	64.75	4,796,737.38
Total	139,199,021.63	65.00	2,141,521.46	47.64	102,019,456.63

Composite Average Remaining Life ... *47.64 Years*

PAWC - Water Operations
Water Operations
330.10 Elevated Tanks

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1992	189,738.86	65.00	2,919.06	38.85	113,408.28
1994	0.01	65.00	0.00	40.06	0.01
2007	109,596.89	65.00	1,686.10	48.79	82,264.23
2008	452,291.74	65.00	6,958.33	49.53	344,640.51
2009	610,424.47	65.00	9,391.14	50.28	472,215.73
2010	876,241.28	65.00	13,480.62	51.04	688,115.95
2011	1.21	65.00	0.02	51.82	0.96
2012	70,427.57	65.00	1,083.50	52.61	56,998.85
2013	7,305,295.42	65.00	112,389.06	53.41	6,002,355.27
2014	402,306.06	65.00	6,189.32	54.22	335,575.50
2015	75,692.00	65.00	1,164.49	55.04	64,094.32
2017	22,485.50	65.00	345.93	56.72	19,622.77
2018	41,920.13	65.00	644.92	57.59	37,139.58
2019	3,889.76	65.00	59.84	58.46	3,498.44
2021	3,743,807.08	65.00	57,596.98	60.25	3,470,318.93
2023	73,266.92	65.00	1,127.18	62.10	69,998.36
2024	3,546,697.40	65.00	54,564.53	63.05	3,440,301.69
2026	324,619.15	65.00	4,994.14	64.75	323,383.82
Total	17,848,701.45	65.00	274,595.16	56.53	15,523,933.19

Composite Average Remaining Life ... 56.53 Years

PAWC - Water Operations
Water Operations
330.20 Ground Level Facilities

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2004	411,560.09	65.00	6,331.69	46.63	295,237.46
2007	729,975.76	65.00	11,230.39	48.79	547,925.14
2008	37,653.40	65.00	579.28	49.53	28,691.41
2009	21,769.28	65.00	334.91	50.28	16,840.41
2010	13,139.81	65.00	202.15	51.04	10,318.75
2011	261,613.14	65.00	4,024.81	51.82	208,572.63
2012	1,944,284.21	65.00	29,912.04	52.61	1,573,559.37
2013	5,126,495.63	65.00	78,869.09	53.41	4,212,156.57
2014	4,119,155.97	65.00	63,371.57	54.22	3,435,910.99
2015	141,079.99	65.00	2,170.46	55.04	119,463.42
2016	1,686,605.76	65.00	25,947.76	55.88	1,449,891.75
2017	150,532.79	65.00	2,315.89	56.72	131,367.78
2018	115,120.43	65.00	1,771.08	57.59	101,992.14
2019	33,498.57	65.00	515.36	58.46	30,128.53
2021	3,736,874.95	65.00	57,490.33	60.25	3,463,893.20
2023	129,755.90	65.00	1,996.24	62.10	123,967.27
2025	461,649.62	65.00	7,102.30	64.01	454,632.39
Total	19,120,765.30	65.00	294,165.35	55.09	16,204,549.20

Composite Average Remaining Life ... 55.09 Years

PAWC - Water Operations
Water Operations
330.30 Below Grade Facilities

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2007	173,959.09	65.00	2,676.29	48.79	130,574.96
2010	31,397.64	65.00	483.04	51.04	24,656.70
2011	100,934.51	65.00	1,552.84	51.82	80,470.64
2014	280,555.88	65.00	4,316.24	54.22	234,020.04
2016	231,860.11	65.00	3,567.08	55.88	199,318.70
Total	818,707.23	65.00	12,595.48	53.12	669,041.03

Composite Average Remaining Life ... 53.12 Years

PAWC - Water Operations
Water Operations
330.40 Clearwell

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1959	5,027.02	65.00	77.34	22.52	1,741.38
1977	63,020.50	65.00	969.55	30.69	29,754.47
1978	7,099.25	65.00	109.22	31.19	3,406.41
1986	137,509.65	65.00	2,115.53	35.40	74,898.68
1987	14,473.99	65.00	222.68	35.96	8,007.79
2012	12,757,639.44	65.00	196,271.20	52.61	10,325,086.74
2017	19,388.28	65.00	298.28	56.72	16,919.87
2018	32,046.45	65.00	493.02	57.59	28,391.89
2019	5,251.81	65.00	80.80	58.46	4,723.46
2020	24,652.20	65.00	379.26	59.35	22,509.72
2025	6,504,069.56	65.00	100,062.52	64.01	6,405,205.56
2026	100,000.02	65.00	1,538.46	64.75	99,619.47
Total	19,670,178.17	65.00	302,617.85	56.24	17,020,265.44

Composite Average Remaining Life ... 56.24 Years

PAWC - Water Operations
Water Operations
331.00 Mains and Accessories

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 90 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1901	146,492.34	90.00	1,627.69	11.80	19,211.24
1902	140,988.02	90.00	1,566.53	12.11	18,963.59
1903	244,198.60	90.00	2,713.31	12.41	33,672.98
1904	76,713.66	90.00	852.37	12.72	10,839.97
1905	408,269.96	90.00	4,536.33	13.02	59,060.39
1906	238,415.21	90.00	2,649.05	13.33	35,315.56
1907	1,436,012.16	90.00	15,955.67	13.65	217,738.75
1908	423,885.83	90.00	4,709.84	13.96	65,772.47
1909	282,213.54	90.00	3,135.70	14.29	44,799.41
1910	238,304.86	90.00	2,647.83	14.61	38,691.58
1911	126,190.35	90.00	1,402.11	14.94	20,950.60
1912	222,301.65	90.00	2,470.01	15.28	37,731.57
1913	86,645.27	90.00	962.72	15.61	15,031.77
1914	403,674.30	90.00	4,485.26	15.95	71,551.16
1915	238,727.96	90.00	2,652.53	16.30	43,234.71
1916	1,020,793.34	90.00	11,342.13	16.65	188,860.78
1917	122,337.60	90.00	1,359.30	17.01	23,119.24
1918	71,605.29	90.00	795.61	17.37	13,819.96
1919	120,783.17	90.00	1,342.03	17.74	23,804.39
1920	237,298.77	90.00	2,636.65	18.11	47,750.63
1921	233,639.90	90.00	2,596.00	18.49	47,996.50
1922	205,737.87	90.00	2,285.97	18.87	43,142.36
1923	1,573,737.97	90.00	17,485.95	19.26	336,812.12
1924	857,961.27	90.00	9,532.89	19.66	187,394.58
1925	655,372.06	90.00	7,281.90	20.06	146,071.42
1926	1,295,579.42	90.00	14,395.31	20.47	294,634.97
1927	226,063.02	90.00	2,511.81	20.88	52,450.32

PAWC - Water Operations
Water Operations
331.00 Mains and Accessories

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 90 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1928	350,330.35	90.00	3,892.55	21.30	82,918.35
1929	184,660.32	90.00	2,051.78	21.73	44,581.73
1930	149,589.41	90.00	1,662.10	22.16	36,834.19
1931	220,577.25	90.00	2,450.85	22.60	55,390.41
1932	66,251.43	90.00	736.13	23.05	16,966.08
1933	37,969.60	90.00	421.88	23.50	9,914.42
1934	77,852.53	90.00	865.03	23.96	20,725.53
1935	131,827.58	90.00	1,464.75	24.42	35,776.48
1936	102,874.58	90.00	1,143.05	24.90	28,458.62
1937	163,209.53	90.00	1,813.44	25.38	46,017.37
1938	76,874.08	90.00	854.16	25.86	22,089.30
1939	158,408.91	90.00	1,760.10	26.35	46,383.43
1940	121,894.78	90.00	1,354.38	26.85	36,366.71
1941	114,365.35	90.00	1,270.72	27.36	34,765.75
1942	90,181.02	90.00	1,002.01	27.87	27,927.04
1943	77,892.08	90.00	865.47	28.39	24,570.22
1944	41,743.13	90.00	463.81	28.91	13,410.95
1945	227,049.26	90.00	2,522.77	29.45	74,285.86
1946	313,073.92	90.00	3,478.59	29.98	104,302.91
1947	276,738.35	90.00	3,074.87	30.53	93,871.61
1948	275,910.87	90.00	3,065.67	31.08	95,279.71
1949	117,603.94	90.00	1,306.71	31.64	41,340.07
1950	135,382.38	90.00	1,504.25	32.20	48,442.76
1951	429,825.88	90.00	4,775.84	32.77	156,525.88
1952	398,044.88	90.00	4,422.71	33.35	147,503.49
1953	928,760.30	90.00	10,319.54	33.93	350,187.02
1954	1,261,111.13	90.00	14,012.33	34.52	483,754.84

PAWC - Water Operations
Water Operations
331.00 Mains and Accessories

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *90* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1955	2,731,836.82	90.00	30,353.70	35.12	1,065,986.01
1956	1,455,037.23	90.00	16,167.06	35.72	577,490.28
1957	2,143,974.69	90.00	23,821.91	36.33	865,392.24
1958	1,845,102.55	90.00	20,501.11	36.94	757,330.71
1959	2,107,208.23	90.00	23,413.39	37.56	879,500.86
1960	2,815,128.14	90.00	31,279.16	38.19	1,194,545.89
1961	3,587,197.78	90.00	39,857.70	38.82	1,547,334.16
1962	1,391,848.71	90.00	15,464.96	39.46	610,229.59
1963	1,995,731.87	90.00	22,174.77	40.10	889,250.94
1964	4,791,111.30	90.00	53,234.49	40.75	2,169,340.73
1965	4,608,109.28	90.00	51,201.14	41.40	2,119,982.51
1966	3,938,166.77	90.00	43,757.35	42.06	1,840,645.96
1967	5,478,857.71	90.00	60,876.11	42.73	2,601,247.76
1968	5,426,362.76	90.00	60,292.83	43.40	2,616,985.01
1969	4,848,715.81	90.00	53,874.54	44.08	2,374,862.73
1970	3,729,731.55	90.00	41,441.40	44.76	1,855,059.22
1971	5,323,237.67	90.00	59,147.00	45.45	2,688,275.73
1972	8,130,015.20	90.00	90,333.37	46.14	4,168,276.80
1973	8,161,557.55	90.00	90,683.84	46.84	4,247,715.76
1974	4,855,392.43	90.00	53,948.73	47.54	2,564,920.77
1975	5,888,136.13	90.00	65,423.64	48.25	3,156,788.07
1976	9,758,845.41	90.00	108,431.46	48.96	5,309,265.66
1977	6,096,757.75	90.00	67,741.66	49.69	3,365,766.02
1978	9,787,346.31	90.00	108,748.14	50.41	5,481,830.04
1979	8,765,687.00	90.00	97,396.38	51.14	4,980,508.74
1980	12,174,338.41	90.00	135,270.23	51.87	7,016,365.50
1981	8,372,654.13	90.00	93,029.36	52.61	4,893,970.21

PAWC - Water Operations
Water Operations
331.00 Mains and Accessories

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *90* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1982	6,125,782.76	90.00	68,064.16	53.35	3,631,146.11
1983	9,915,646.92	90.00	110,173.70	54.10	5,959,918.01
1984	14,758,228.08	90.00	163,980.08	54.85	8,993,815.22
1985	18,526,515.29	90.00	205,849.88	55.60	11,445,846.85
1986	24,388,081.59	90.00	270,978.30	56.37	15,274,034.86
1987	25,816,601.01	90.00	286,850.71	57.13	16,388,236.02
1988	34,998,171.42	90.00	388,868.02	57.90	22,515,957.25
1989	32,275,046.21	90.00	358,611.11	58.68	21,041,617.04
1990	33,811,053.89	90.00	375,677.84	59.45	22,335,409.56
1991	21,820,975.38	90.00	242,454.94	60.24	14,604,558.12
1992	25,574,773.72	90.00	284,163.75	61.02	17,340,504.71
1993	36,120,497.19	90.00	401,338.28	61.81	24,808,265.19
1994	39,133,404.66	90.00	434,814.99	62.61	27,223,281.51
1995	48,903,773.64	90.00	543,374.49	63.41	34,455,745.75
1996	40,806,015.34	90.00	453,399.52	64.21	29,114,722.41
1997	35,974,579.41	90.00	399,716.98	65.02	25,990,337.34
1998	89,512,638.38	90.00	994,583.45	65.83	65,476,757.34
1999	54,275,176.35	90.00	603,056.65	66.65	40,192,964.48
2000	57,080,634.60	90.00	634,228.37	67.47	42,790,104.86
2001	63,468,494.62	90.00	705,204.49	68.29	48,159,134.53
2002	65,424,561.79	90.00	726,938.54	69.12	50,244,421.48
2003	23,896,042.58	90.00	265,511.20	69.95	18,572,078.03
2004	64,061,827.71	90.00	711,797.07	70.78	50,384,540.07
2005	59,721,854.63	90.00	663,575.21	71.62	47,527,417.09
2006	14,320,619.73	90.00	159,117.77	72.47	11,530,487.78
2007	76,109,373.77	90.00	845,658.50	73.31	61,995,678.09
2008	95,065,324.56	90.00	1,056,279.87	74.16	78,333,132.90

PAWC - Water Operations
Water Operations
331.00 Mains and Accessories

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: ***90*** ***Survivor Curve:*** ***R2***

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2009	89,394,832.44	90.00	993,274.50	75.01	74,507,330.44
2010	93,310,059.01	90.00	1,036,776.95	75.87	78,657,822.52
2011	114,893,685.61	90.00	1,276,594.68	76.73	97,949,050.07
2012	106,797,518.38	90.00	1,186,637.40	77.59	92,070,413.48
2013	142,440,728.11	90.00	1,582,672.49	78.46	124,172,097.86
2014	131,300,030.12	90.00	1,458,887.14	79.33	115,728,648.05
2015	164,708,614.64	90.00	1,830,093.10	80.20	146,772,179.65
2016	173,461,216.91	90.00	1,927,344.10	81.08	156,259,600.70
2017	117,123,581.31	90.00	1,301,371.26	81.95	106,652,569.99
2018	152,196,389.02	90.00	1,691,068.57	82.84	140,081,318.45
2019	163,202,140.67	90.00	1,813,354.53	83.72	151,815,806.20
2020	178,488,444.29	90.00	1,983,202.10	84.61	167,796,722.07
2021	127,404,054.03	90.00	1,415,598.58	85.50	121,033,561.06
2022	194,529,734.77	90.00	2,161,438.41	86.40	186,738,586.21
2023	252,192,910.62	90.00	2,802,139.44	87.29	244,605,798.01
2024	232,360,661.10	90.00	2,581,781.43	88.19	227,693,284.85
2025	270,639,537.82	90.00	3,007,101.68	89.09	267,917,331.03
2026	74,620,907.22	90.00	829,120.01	89.77	74,433,264.15
Total	4,049,022,776.72	90.00	44,989,077.63	77.07	3,467,371,378.93

Composite Average Remaining Life ... ***77.07 Years***

PAWC - Water Operations
Water Operations
333.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1948	26,099.86	65.00	401.54	10.65	4,277.01
1949	82,894.70	65.00	1,275.30	10.96	13,973.34
1950	133,600.19	65.00	2,055.38	11.27	23,171.84
1951	210,589.34	65.00	3,239.83	11.60	37,580.35
1952	289,307.37	65.00	4,450.88	11.94	53,132.54
1953	261,200.39	65.00	4,018.46	12.29	49,371.11
1954	273,928.54	65.00	4,214.28	12.65	53,298.89
1955	420,624.13	65.00	6,471.13	13.02	84,256.45
1956	522,828.92	65.00	8,043.51	13.41	107,831.29
1957	512,003.86	65.00	7,876.97	13.81	108,742.81
1958	613,006.44	65.00	9,430.85	14.22	134,072.06
1959	765,810.46	65.00	11,781.68	14.64	172,512.02
1960	787,382.67	65.00	12,113.56	15.08	182,669.03
1961	723,023.22	65.00	11,123.42	15.53	172,781.73
1962	779,000.70	65.00	11,984.61	16.00	191,745.88
1963	646,291.37	65.00	9,942.93	16.48	163,835.09
1964	589,624.55	65.00	9,071.13	16.97	153,944.43
1965	884,596.74	65.00	13,609.16	17.48	237,823.67
1966	887,622.35	65.00	13,655.71	18.00	245,736.18
1967	932,874.44	65.00	14,351.89	18.53	265,872.20
1968	1,073,623.73	65.00	16,517.26	19.07	315,000.19
1969	1,169,415.60	65.00	17,990.98	19.63	353,089.22
1970	1,274,414.42	65.00	19,606.34	20.20	395,980.58
1971	1,487,205.00	65.00	22,880.04	20.78	475,340.40
1972	1,607,414.45	65.00	24,729.41	21.37	528,462.83
1973	2,124,372.82	65.00	32,682.60	21.97	718,081.01
1974	1,227,715.23	65.00	18,887.90	22.59	426,648.99

PAWC - Water Operations
Water Operations
333.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1975	740,667.20	65.00	11,394.86	23.21	264,531.29
1976	962,345.47	65.00	14,805.29	23.85	353,108.34
1977	1,350,995.76	65.00	20,784.52	24.50	509,169.54
1978	1,862,311.90	65.00	28,650.90	25.15	720,646.87
1979	2,852,756.67	65.00	43,888.49	25.82	1,133,196.00
1980	2,600,405.74	65.00	40,006.18	26.49	1,059,921.55
1981	2,520,157.69	65.00	38,771.59	27.18	1,053,810.53
1982	2,501,912.48	65.00	38,490.90	27.87	1,072,818.59
1983	2,823,987.53	65.00	43,445.89	28.58	1,241,505.89
1984	3,336,157.16	65.00	51,325.41	29.29	1,503,070.40
1985	3,657,834.14	65.00	56,274.28	30.01	1,688,570.54
1986	4,441,175.30	65.00	68,325.66	30.73	2,099,763.45
1987	6,264,374.66	65.00	96,374.84	31.47	3,032,821.16
1988	6,929,986.62	65.00	106,615.00	32.21	3,434,392.55
1989	7,390,185.79	65.00	113,694.98	32.96	3,747,767.79
1990	8,302,406.55	65.00	127,729.12	33.72	4,307,386.91
1991	6,102,894.60	65.00	93,890.53	34.49	3,238,097.98
1992	6,403,437.24	65.00	98,514.26	35.26	3,473,848.09
1993	9,519,022.33	65.00	146,446.25	36.04	5,278,209.22
1994	7,668,986.85	65.00	117,984.22	36.83	4,345,444.39
1995	10,883,876.84	65.00	167,443.98	37.62	6,299,941.97
1996	11,157,504.04	65.00	171,653.62	38.43	6,596,107.46
1997	10,568,496.93	65.00	162,591.99	39.23	6,379,090.57
1998	45,858,664.45	65.00	705,516.75	40.05	28,255,808.25
1999	13,842,159.30	65.00	212,955.94	40.87	8,703,432.45
2000	13,866,141.67	65.00	213,324.90	41.70	8,895,356.06
2001	16,260,793.49	65.00	250,165.64	42.53	10,640,278.88

PAWC - Water Operations
Water Operations
333.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2002	29,767,242.30	65.00	457,956.81	43.37	19,862,630.51
2003	3,369,070.13	65.00	51,831.76	44.22	2,291,935.72
2004	2,325,009.35	65.00	35,769.32	45.07	1,612,115.19
2005	18,814,392.09	65.00	289,451.71	45.93	13,293,902.84
2006	97,915.42	65.00	1,506.39	46.79	70,484.02
2007	11,848,832.41	65.00	182,289.43	47.66	8,687,773.37
2008	24,791,752.19	65.00	381,410.94	48.53	18,510,657.56
2009	22,181,935.01	65.00	341,259.97	49.41	16,862,237.22
2010	17,745,141.30	65.00	273,001.72	50.29	13,730,515.49
2011	18,483,939.81	65.00	284,367.83	51.18	14,555,129.48
2012	21,524,518.70	65.00	331,145.89	52.08	17,244,949.90
2013	22,311,825.02	65.00	343,258.28	52.98	18,184,264.13
2014	20,483,985.31	65.00	315,137.71	53.88	16,979,036.55
2015	21,373,599.65	65.00	328,824.06	54.78	18,014,434.21
2016	27,759,817.90	65.00	427,073.41	55.70	23,786,098.53
2017	25,462,015.22	65.00	391,722.66	56.61	22,175,380.21
2018	23,785,843.88	65.00	365,935.45	57.53	21,051,880.97
2019	26,250,430.36	65.00	403,852.11	58.45	23,605,474.05
2020	33,394,787.53	65.00	513,765.11	59.38	30,505,906.42
2021	30,271,261.12	65.00	465,710.94	60.31	28,085,147.93
2022	40,780,955.41	65.00	627,398.27	61.24	38,421,309.60
2023	50,620,850.52	65.00	778,781.02	62.17	48,420,216.86
2024	59,433,982.42	65.00	914,367.44	63.11	57,709,164.23
2025	61,604,875.25	65.00	947,765.74	64.05	60,709,117.65
2026	32,306,701.42	65.00	497,025.35	64.76	32,189,288.59

PAWC - Water Operations
Water Operations
333.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	877,766,789.61	65.00	13,504,082.07	51.21	691,556,379.08

Composite Average Remaining Life ... 51.21 Years

PAWC - Water Operations
Water Operations
334.00 Meters and Installations

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *L1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1960	176.00	0.00	0.00	0.00	0.00
1961	263.00	0.00	0.00	0.00	0.00
1962	370.00	0.00	0.00	0.00	0.00
1963	200.00	0.00	0.00	0.00	0.00
1964	862.00	20.00	43.10	0.50	21.55
1965	791.00	20.00	39.55	0.68	26.96
1966	433.00	20.00	21.65	0.82	17.69
1967	240.00	20.00	12.00	0.96	11.54
1968	729.00	20.00	36.45	1.11	40.56
1969	546.00	20.00	27.30	1.27	34.58
1970	1,128.00	20.00	56.40	1.42	80.28
1971	440.00	20.00	22.00	1.58	34.75
1972	827.00	20.00	41.35	1.73	71.68
1973	521.00	20.00	26.05	1.88	49.07
1974	179.00	20.00	8.95	2.03	18.17
1975	957.00	20.00	47.85	2.17	104.00
1976	230.00	20.00	11.50	2.32	26.64
1977	250.00	20.00	12.50	2.46	30.75
1978	403.00	20.00	20.15	2.61	52.52
1979	463.00	20.00	23.15	2.76	63.79
1980	258.00	20.00	12.90	2.91	37.52
1981	314.00	20.00	15.70	3.07	48.14
1986	1,836.00	20.00	91.80	3.92	360.29
1987	191,532.30	20.00	9,576.24	4.11	39,373.05
1988	407.00	20.00	20.35	4.30	87.57
1989	9,450.87	20.00	472.53	4.50	2,126.44
1990	34,794.48	20.00	1,739.66	4.70	8,180.52

PAWC - Water Operations
Water Operations
334.00 Meters and Installations

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *L1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1991	655,892.00	20.00	32,793.33	4.91	161,015.22
1992	206,344.07	20.00	10,316.80	5.12	52,854.63
1993	225,675.35	20.00	11,283.33	5.34	60,275.21
1994	190,692.69	20.00	9,534.26	5.57	53,072.42
1995	247,931.83	20.00	12,396.11	5.80	71,856.83
1996	65,879.75	20.00	3,293.86	6.03	19,870.34
1997	1,046,919.80	20.00	52,343.96	6.27	328,389.07
1998	9,711,503.34	20.00	485,556.33	6.52	3,165,694.36
1999	1,348,608.59	20.00	67,427.81	6.77	456,494.48
2000	1,127,769.09	20.00	56,386.27	7.02	396,067.27
2001	2,957,810.64	20.00	147,884.80	7.28	1,076,771.16
2002	1,452,543.00	20.00	72,624.33	7.54	547,610.99
2003	65,985.65	20.00	3,299.15	7.80	25,737.20
2004	33,628.82	20.00	1,681.38	8.06	13,557.60
2005	2,243,595.00	20.00	112,175.40	8.33	934,116.95
2006	49,522.97	20.00	2,476.05	8.59	21,278.46
2007	3,004,862.58	20.00	150,237.30	8.86	1,331,745.43
2008	1,418,029.81	20.00	70,898.74	9.14	648,122.98
2009	3,646,458.06	20.00	182,315.83	9.43	1,719,033.26
2010	7,245,551.05	20.00	362,263.50	9.73	3,525,042.13
2011	12,408,538.62	20.00	620,402.86	10.05	6,236,160.28
2012	10,899,356.36	20.00	544,946.68	10.40	5,666,405.36
2013	8,716,460.33	20.00	435,806.11	10.78	4,696,006.34
2014	6,264,575.58	20.00	313,216.63	11.19	3,504,781.99
2015	11,904,076.54	20.00	595,180.74	11.65	6,931,896.06
2016	14,267,470.69	20.00	713,345.86	12.15	8,670,700.77
2017	15,084,360.63	20.00	754,188.77	12.72	9,593,627.66

PAWC - Water Operations
Water Operations
334.00 Meters and Installations

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *L1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2018	12,373,141.93	20.00	618,633.10	13.34	8,255,460.28
2019	16,599,187.07	20.00	829,927.16	14.02	11,638,876.25
2020	9,582,526.53	20.00	479,107.74	14.75	7,067,345.50
2021	6,519,759.83	20.00	325,975.35	15.52	5,059,904.03
2022	20,197,513.90	20.00	1,009,836.52	16.34	16,499,381.74
2023	35,757,111.50	20.00	1,787,786.22	17.20	30,748,507.52
2024	39,473,317.51	20.00	1,973,589.31	18.10	35,723,554.90
2025	31,492,182.75	20.00	1,574,548.06	19.04	29,975,606.85
2026	17,950,937.98	20.00	897,512.08	19.76	17,733,207.89
Total	306,684,322.49	18.73	15,333,570.85	14.52	222,660,927.47

Composite Average Remaining Life ... 14.52 Years

PAWC - Water Operations
Water Operations
335.00 Fire Hydrants

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 60 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1931	405.67	60.00	6.76	4.46	30.16
1932	825.75	60.00	13.76	4.76	65.47
1933	854.24	60.00	14.24	5.04	71.77
1934	1,240.21	60.00	20.67	5.33	110.14
1935	2,469.35	60.00	41.16	5.62	231.48
1936	3,530.12	60.00	58.84	5.91	347.74
1937	4,628.28	60.00	77.14	6.20	478.23
1938	4,140.48	60.00	69.01	6.50	448.32
1939	6,475.67	60.00	107.93	6.79	732.33
1940	3,767.63	60.00	62.79	7.08	444.44
1941	4,087.05	60.00	68.12	7.38	502.55
1942	1,402.35	60.00	23.37	7.67	179.31
1943	1,465.22	60.00	24.42	7.97	194.65
1944	1,417.53	60.00	23.63	8.28	195.56
1945	610.29	60.00	10.17	8.58	87.29
1946	2,087.25	60.00	34.79	8.89	309.31
1947	8,700.00	60.00	145.00	9.21	1,335.36
1948	6,800.82	60.00	113.35	9.53	1,079.95
1949	19,787.04	60.00	329.78	9.85	3,249.39
1950	4,402.72	60.00	73.38	10.19	747.51
1951	24,809.97	60.00	413.50	10.52	4,351.73
1952	20,657.59	60.00	344.29	10.87	3,742.18
1953	15,578.90	60.00	259.65	11.22	2,914.05
1954	23,950.41	60.00	399.17	11.58	4,623.50
1955	20,160.21	60.00	336.00	11.95	4,015.54
1956	33,261.63	60.00	554.36	12.33	6,834.23
1957	47,545.56	60.00	792.42	12.71	10,074.22

PAWC - Water Operations
Water Operations
335.00 Fire Hydrants

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *60* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1958	57,207.94	60.00	953.46	13.11	12,497.34
1959	73,438.17	60.00	1,223.97	13.51	16,536.38
1960	74,151.01	60.00	1,235.85	13.92	17,206.71
1961	71,404.44	60.00	1,190.07	14.35	17,071.59
1962	53,350.36	60.00	889.17	14.78	13,138.33
1963	79,973.85	60.00	1,332.89	15.22	20,283.20
1964	66,731.15	60.00	1,112.18	15.67	17,426.28
1965	99,354.34	60.00	1,655.90	16.13	26,707.03
1966	101,788.04	60.00	1,696.46	16.60	28,160.62
1967	127,584.09	60.00	2,126.40	17.08	36,319.90
1968	125,450.53	60.00	2,090.84	17.57	36,735.74
1969	122,534.84	60.00	2,042.24	18.07	36,905.56
1970	118,513.20	60.00	1,975.21	18.58	36,703.24
1971	156,766.72	60.00	2,612.77	19.10	49,906.27
1972	165,627.05	60.00	2,760.44	19.63	54,192.92
1973	221,110.81	60.00	3,685.17	20.17	74,338.73
1974	299,801.76	60.00	4,996.68	20.72	103,534.85
1975	297,399.06	60.00	4,956.64	21.28	105,482.75
1976	198,790.83	60.00	3,313.17	21.85	72,394.79
1977	290,595.14	60.00	4,843.24	22.43	108,622.38
1978	446,737.80	60.00	7,445.61	23.02	171,372.31
1979	517,966.58	60.00	8,632.75	23.61	203,856.08
1980	446,857.51	60.00	7,447.60	24.22	180,374.64
1981	269,007.16	60.00	4,483.44	24.84	111,349.16
1982	417,784.27	60.00	6,963.05	25.46	177,283.22
1983	548,776.19	60.00	9,146.24	26.09	238,646.59
1984	545,220.04	60.00	9,086.98	26.74	242,942.83

PAWC - Water Operations
Water Operations
335.00 Fire Hydrants

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 60 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1985	581,061.43	60.00	9,684.33	27.39	265,217.92
1986	751,487.79	60.00	12,524.76	28.04	351,241.90
1987	822,166.94	60.00	13,702.74	28.71	393,434.56
1988	875,708.33	60.00	14,595.10	29.39	428,921.76
1989	1,092,302.01	60.00	18,204.98	30.07	547,427.57
1990	1,154,500.66	60.00	19,241.63	30.76	591,923.79
1991	967,441.67	60.00	16,123.98	31.46	507,299.88
1992	1,327,596.57	60.00	22,126.55	32.17	711,768.68
1993	1,169,669.05	60.00	19,494.43	32.88	641,046.74
1994	1,545,379.16	60.00	25,756.25	33.61	865,565.43
1995	1,686,766.90	60.00	28,112.70	34.33	965,223.62
1996	1,597,262.34	60.00	26,620.97	35.07	933,637.85
1997	1,727,126.49	60.00	28,785.36	35.82	1,030,964.81
1998	1,601,149.56	60.00	26,685.75	36.56	975,764.12
1999	2,058,587.32	60.00	34,309.70	37.32	1,280,552.34
2000	1,241,843.98	60.00	20,697.34	38.09	788,320.42
2001	1,702,271.55	60.00	28,371.12	38.86	1,102,437.74
2002	1,589,295.72	60.00	26,488.19	39.64	1,049,886.61
2003	2,125,873.20	60.00	35,431.12	40.42	1,432,137.21
2004	2,187,383.85	60.00	36,456.30	41.21	1,502,344.72
2005	213,602.75	60.00	3,560.04	42.01	149,545.48
2006	5,645,198.22	60.00	94,086.38	42.81	4,027,811.81
2007	3,171,907.74	60.00	52,864.98	43.62	2,305,831.31
2008	4,241,162.15	60.00	70,685.84	44.43	3,140,762.64
2009	4,614,659.61	60.00	76,910.78	45.25	3,480,481.88
2010	4,214,026.56	60.00	70,233.58	46.08	3,236,274.61
2011	3,514,009.95	60.00	58,566.67	46.91	2,747,436.51

PAWC - Water Operations
Water Operations
335.00 Fire Hydrants

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *60* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2012	4,611,078.54	60.00	76,851.10	47.75	3,669,562.10
2013	5,204,911.49	60.00	86,748.29	48.59	4,215,180.44
2014	4,622,085.19	60.00	77,034.54	49.44	3,808,571.10
2015	7,682,426.24	60.00	128,040.09	50.29	6,439,590.99
2016	7,704,485.68	60.00	128,407.74	51.15	6,568,228.09
2017	6,018,700.46	60.00	100,311.40	52.02	5,217,759.61
2018	5,464,259.48	60.00	91,070.74	52.88	4,816,235.21
2019	7,194,900.97	60.00	119,914.69	53.76	6,446,288.11
2020	7,542,981.42	60.00	125,716.01	54.64	6,868,633.14
2021	7,700,209.78	60.00	128,336.48	55.52	7,125,151.01
2022	10,995,776.88	60.00	183,262.45	56.41	10,337,116.61
2023	13,886,858.96	60.00	231,447.02	57.30	13,261,575.23
2024	13,766,954.10	60.00	229,448.61	58.20	13,352,781.41
2025	9,733,967.06	60.00	162,232.34	59.09	9,587,119.81
2026	3,072,645.27	60.00	51,210.61	59.77	3,061,054.81
Total	174,880,667.84	60.00	2,914,669.84	48.89	142,485,495.40

Composite Average Remaining Life ... 48.89 Years

PAWC - Water Operations
Water Operations
341.00 Transportation - Not Classified

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *10* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1986	349.00	0.00	0.00	0.00	0.00
2020	2,238.67	10.00	223.86	5.16	1,154.57
2025	36,010.43	10.00	3,601.00	9.01	32,446.59
Total	38,598.10	6.67	3,824.86	8.78	33,601.16

Composite Average Remaining Life ... 8.78 Years

PAWC - Water Operations
Water Operations
341.10 Transportation - Light Trucks

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *10* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2011	13,092.98	10.00	1,309.28	2.68	3,509.20
2012	1,049,987.99	10.00	104,997.53	2.93	307,232.70
2013	4,238,097.15	10.00	423,804.59	3.18	1,346,110.21
2014	32,987.33	10.00	3,298.69	3.43	11,298.98
2015	726,693.98	10.00	72,668.52	3.67	266,612.29
2016	1,221,980.63	10.00	122,196.58	3.91	477,511.56
2017	26,189.81	10.00	2,618.95	4.15	10,872.17
2018	2,049,077.18	10.00	204,905.24	4.42	905,648.22
2019	9,561,056.57	10.00	956,094.09	4.74	4,534,806.10
2020	8,458,354.68	10.00	845,825.24	5.16	4,362,297.59
2021	10,795,435.98	10.00	1,079,530.54	5.70	6,152,417.60
2022	9,810,284.80	10.00	981,016.61	6.39	6,265,635.93
2023	16,577,392.29	10.00	1,657,719.18	7.19	11,922,813.39
2024	10,309,332.00	10.00	1,030,920.73	8.07	8,318,233.84
2025	6,190,555.50	10.00	619,048.06	9.01	5,577,895.14
2026	968,334.00	10.00	96,832.23	9.75	944,135.89
Total	82,028,852.87	10.00	8,202,786.06	6.27	51,407,030.82

Composite Average Remaining Life ... 6.27 Years

PAWC - Water Operations
Water Operations
341.20 Transportation - Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *10* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2000	58,209.00	10.00	5,820.83	0.60	3,473.33
2011	4,000.00	10.00	400.00	2.68	1,072.09
2012	90,370.79	10.00	9,036.97	2.93	26,443.03
2013	2,819,782.74	10.00	281,974.86	3.18	895,623.25
2014	411,274.47	10.00	41,126.95	3.43	140,871.74
2016	2,478,954.18	10.00	247,892.42	3.91	968,697.26
2017	2,326,634.81	10.00	232,660.67	4.15	965,855.59
2018	5,865,427.39	10.00	586,535.64	4.42	2,592,393.25
2019	8,314.30	10.00	831.42	4.74	3,943.47
2020	811,487.16	10.00	81,147.73	5.16	418,515.02
2021	229,580.55	10.00	22,957.78	5.70	130,840.05
2022	172,600.00	10.00	17,259.79	6.39	110,236.22
Total	15,276,635.39	10.00	1,527,645.06	4.10	6,257,964.31

Composite Average Remaining Life ... 4.10 Years

PAWC - Water Operations
Water Operations
341.40 Transportation - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *10* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1961	374.92	0.00	0.00	0.00	0.00
1977	403.11	0.00	0.00	0.00	0.00
1978	265.00	0.00	0.00	0.00	0.00
1997	5,832.00	0.00	0.00	0.00	0.00
1998	8,060.31	0.00	0.00	0.00	0.00
1999	3,236.47	10.00	323.64	0.51	164.13
2006	4,626.70	10.00	462.66	1.59	736.73
2007	18,169.65	10.00	1,816.94	1.79	3,254.11
2008	97,342.34	10.00	9,734.12	2.00	19,452.56
2009	25,526.94	10.00	2,552.66	2.22	5,655.20
2010	50,483.13	10.00	5,048.25	2.44	12,331.56
2011	75,022.83	10.00	7,502.19	2.68	20,107.75
2012	320,046.56	10.00	32,004.27	2.93	93,647.52
2013	836,648.69	10.00	83,663.86	3.18	265,737.50
2014	718,980.22	10.00	71,897.15	3.43	246,268.61
2015	178,997.07	10.00	17,899.49	3.67	65,671.14
2016	954,565.45	10.00	95,455.39	3.91	373,014.13
2017	120,461.68	10.00	12,046.02	4.15	50,007.24
2018	2,510,965.54	10.00	251,093.52	4.42	1,109,792.97
2019	787,130.82	10.00	78,712.13	4.74	373,335.90
2020	473,035.57	10.00	47,302.98	5.16	243,962.57
2021	107,145.87	10.00	10,714.46	5.70	61,063.41
2022	47,744.96	10.00	4,774.44	6.39	30,493.77
2023	129,695.53	10.00	12,969.40	7.19	93,279.79
2024	211,053.00	10.00	21,105.04	8.07	170,291.17

PAWC - Water Operations
Water Operations
341.40 Transportation - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *10* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	7,685,814.36	8.00	767,078.62	4.22	3,238,267.76

Composite Average Remaining Life ... *4.22* *Years*

PAWC - Water Operations
Water Operations
345.00 Power Operated Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 21 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1951	29.64	0.00	0.00	0.00	0.00
1967	1,931.23	0.00	0.00	0.00	0.00
1968	1,032.10	0.00	0.00	0.00	0.00
1969	817.92	0.00	0.00	0.00	0.00
1970	6,734.16	0.00	0.00	0.00	0.00
1972	6,321.41	0.00	0.00	0.00	0.00
1975	281.75	0.00	0.00	0.00	0.00
1977	596.25	0.00	0.00	0.00	0.00
1978	1,790.00	0.00	0.00	0.00	0.00
1980	7,445.82	0.00	0.00	0.00	0.00
1982	2,452.73	0.00	0.00	0.00	0.00
1984	1,722.07	0.00	0.00	0.00	0.00
1985	16,792.81	21.00	799.65	0.50	399.83
1986	14,013.50	21.00	667.30	0.78	523.26
1987	4,748.59	21.00	226.12	1.11	250.11
1988	10,221.10	21.00	486.71	1.43	696.24
1989	13,115.87	21.00	624.56	1.76	1,098.40
1990	9,498.15	21.00	452.29	2.09	944.61
1991	12,096.57	21.00	576.02	2.42	1,394.50
1992	18,034.45	21.00	858.78	2.75	2,364.16
1993	77,817.09	21.00	3,705.54	3.09	11,443.02
1994	142,750.50	21.00	6,797.58	3.43	23,293.43
1995	148,235.10	21.00	7,058.75	3.77	26,612.22
1996	79,553.28	21.00	3,788.22	4.12	15,594.80
1997	41,095.55	21.00	1,956.91	4.47	8,744.78
1998	97,830.04	21.00	4,658.53	4.83	22,485.02
1999	255,047.45	21.00	12,145.01	5.19	63,051.70

PAWC - Water Operations
Water Operations
345.00 Power Operated Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 21 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2001	45,944.17	21.00	2,187.80	5.94	13,000.07
2002	104,174.99	21.00	4,960.67	6.33	31,400.40
2003	170,236.10	21.00	8,106.41	6.73	54,532.36
2004	19,131.90	21.00	911.03	7.13	6,499.29
2005	33,181.89	21.00	1,580.08	7.55	11,932.30
2006	13,570.69	21.00	646.22	7.98	5,157.58
2007	10,129.80	21.00	482.37	8.42	4,063.08
2008	70,816.03	21.00	3,372.16	8.88	29,940.27
2009	85,341.82	21.00	4,063.86	9.35	37,992.57
2010	16,615.93	21.00	791.23	9.83	7,781.59
2011	34,410.00	21.00	1,638.56	10.34	16,938.84
2012	21,347.57	21.00	1,016.54	10.86	11,037.96
2013	21,465.79	21.00	1,022.17	11.40	11,651.80
2014	100,707.30	21.00	4,795.54	11.96	57,358.58
2015	52,293.85	21.00	2,490.16	12.55	31,239.29
2016	126,868.88	21.00	6,041.32	13.15	79,461.60
2017	26,612.95	21.00	1,267.27	13.79	17,472.83
2018	292,687.82	21.00	13,937.39	14.45	201,398.82
2019	13,003.54	21.00	619.21	15.14	9,376.35
2022	53,275.45	21.00	2,536.90	17.42	44,185.48
2024	2,433.40	21.00	115.88	19.12	2,215.47
2025	805,604.26	21.00	38,361.76	20.03	768,570.61
Total	3,091,859.26	15.86	145,746.48	11.20	1,632,103.22

Composite Average Remaining Life ... 11.20 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.20 Structures - Collection

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *45* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2007	5,653.25	45.00	125.63	27.18	3,414.10
2008	110,121.36	45.00	2,447.14	28.05	68,635.88
2009	134,578.42	45.00	2,990.63	28.93	86,512.89
2011	8,524.47	45.00	189.43	30.72	5,818.99
2013	100,540.83	45.00	2,234.24	32.54	72,705.11
2014	14,675.64	45.00	326.13	33.46	10,913.69
2015	30,444.53	45.00	676.54	34.40	23,270.72
2016	36,457.61	45.00	810.17	35.33	28,626.76
2017	196,649.81	45.00	4,369.99	36.28	158,537.41
2018	175,113.71	45.00	3,891.41	37.23	144,873.26
2019	265,156.75	45.00	5,892.37	38.18	224,999.23
2020	432,041.74	45.00	9,600.92	39.15	375,844.31
2021	570,195.07	45.00	12,671.00	40.11	508,267.16
2022	3,385,828.96	45.00	75,240.61	41.08	3,091,103.03
2023	2,427,887.20	45.00	53,953.02	42.06	2,269,106.93
2024	3,347,373.56	45.00	74,386.04	43.04	3,201,219.65
2025	904,535.79	45.00	20,100.79	44.02	884,760.45
2026	128,300.57	45.00	2,851.12	44.75	127,598.02
Total	12,274,079.27	45.00	272,757.19	41.38	11,286,207.60

Composite Average Remaining Life ... 41.38 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.30 Structures - SPP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1935	18,861.14	55.00	342.93	7.09	2,430.68
1958	63,683.83	55.00	1,157.89	16.26	18,825.28
1976	25,970.39	55.00	472.19	24.14	11,398.30
1978	11,146.44	55.00	202.66	25.07	5,080.45
1980	93,957.85	55.00	1,708.32	26.01	44,434.24
1982	12,204.98	55.00	221.91	26.97	5,984.10
1983	86,589.73	55.00	1,574.36	27.45	43,216.04
1984	22,251.97	55.00	404.58	27.94	11,302.83
1985	104,674.02	55.00	1,903.16	28.43	54,102.45
1986	109,744.95	55.00	1,995.36	28.92	57,711.52
1987	29,681.60	55.00	539.67	29.42	15,878.10
1988	220,522.99	55.00	4,009.51	29.93	119,987.24
1989	240,185.48	55.00	4,367.01	30.43	132,903.75
1990	195,083.34	55.00	3,546.97	30.95	109,764.64
1991	285,470.50	55.00	5,190.37	31.46	163,302.41
1992	76,045.29	55.00	1,382.64	31.98	44,223.51
1993	2,160,497.80	55.00	39,281.75	32.51	1,277,130.90
1994	40,624.78	55.00	738.63	33.04	24,407.72
1996	24,175.73	55.00	439.56	34.12	14,999.82
1997	207,995.69	55.00	3,781.74	34.67	131,129.07
1998	429,870.49	55.00	7,815.82	35.23	275,350.23
1999	351,573.23	55.00	6,392.24	35.79	228,788.74
2000	289,845.37	55.00	5,269.91	36.36	191,613.82
2001	179,000.00	55.00	3,254.54	36.94	120,206.63
2002	66,094.94	55.00	1,201.73	37.52	45,084.07
2003	271,071.10	55.00	4,928.56	38.11	187,807.97
2004	1,082,516.67	55.00	19,682.11	38.70	761,768.87

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.30 Structures - SPP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2005	428,604.11	55.00	7,792.80	39.31	306,328.73
2006	917,095.09	55.00	16,674.44	39.92	665,696.86
2007	516,608.48	55.00	9,392.87	40.54	380,827.81
2008	2,147,228.90	55.00	39,040.50	41.18	1,607,563.79
2009	2,915,918.08	55.00	53,016.66	41.82	2,217,102.21
2010	2,365,815.22	55.00	43,014.79	42.47	1,826,892.74
2011	298,754.41	55.00	5,431.89	43.13	234,300.49
2012	37,883.52	55.00	688.79	43.81	30,174.82
2013	181,693.78	55.00	3,303.52	44.49	146,982.77
2014	4,039,714.09	55.00	73,449.30	45.19	3,319,330.78
2015	1,545,002.12	55.00	28,090.93	45.90	1,289,510.09
2016	553,292.14	55.00	10,059.85	46.63	469,108.55
2017	463,399.48	55.00	8,425.44	47.37	399,144.91
2018	388,079.03	55.00	7,055.98	48.13	339,598.86
2019	1,004,042.79	55.00	18,255.31	48.91	892,790.41
2020	1,665,213.82	55.00	30,276.59	49.70	1,504,782.08
2021	987,136.34	55.00	17,947.92	50.52	906,675.29
2022	790,909.88	55.00	14,380.17	51.36	738,497.54
2023	435,502.41	55.00	7,918.22	52.22	413,476.68
2024	821,724.47	55.00	14,940.43	53.11	793,425.82
2025	2,477,582.27	55.00	45,046.92	54.03	2,433,947.20
Total	31,680,540.73	55.00	576,009.43	43.43	25,014,991.80

Composite Average Remaining Life ... 43.43 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1916	177,755.17	0.00	0.00	0.00	0.00
1932	602.40	55.00	10.95	5.95	65.13
1935	562,419.57	55.00	10,225.80	7.09	72,480.23
1946	484.94	55.00	8.82	11.37	100.29
1954	3,946,317.60	55.00	71,751.18	14.60	1,047,758.62
1957	135,742.23	55.00	2,468.04	15.84	39,096.68
1961	346,385.67	55.00	6,297.92	17.52	110,337.12
1963	1,566,657.10	55.00	28,484.65	18.37	523,302.05
1965	53,759.86	55.00	977.45	19.23	18,797.65
1967	23,995,715.53	55.00	436,285.43	20.10	8,769,570.06
1968	361,924.73	55.00	6,580.45	20.54	135,154.25
1969	221,599.62	55.00	4,029.08	20.98	84,528.30
1973	38,481.00	55.00	699.65	22.77	15,929.97
1975	419,410.21	55.00	7,625.63	23.68	180,569.79
1976	16,150.91	55.00	293.65	24.14	7,088.57
1978	20,306,005.32	55.00	369,199.84	25.07	9,255,297.28
1981	12,778,313.67	55.00	232,332.81	26.49	6,153,731.16
1984	693,417.71	55.00	12,607.59	27.94	352,219.64
1985	133,860.33	55.00	2,433.82	28.43	69,187.86
1986	385,741.04	55.00	7,013.47	28.92	202,849.45
1988	15,031,971.53	55.00	273,308.38	29.93	8,178,942.01
1989	7,342,590.93	55.00	133,501.56	30.43	4,062,934.52
1990	6,479,049.63	55.00	117,800.82	30.95	3,645,470.58
1991	34,903,905.07	55.00	634,616.02	31.46	19,966,657.61
1992	52,055,984.18	55.00	946,471.78	31.98	30,272,724.60
1993	354,817.39	55.00	6,451.22	32.51	209,742.52
1994	16,680.06	55.00	303.27	33.04	10,021.53

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 *Survivor Curve:* S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1995	124,581.42	55.00	2,265.12	33.58	76,067.82
1996	642,593.75	55.00	11,683.51	34.12	398,697.09
1997	274,432.07	55.00	4,989.67	34.67	173,013.30
1998	599,628.40	55.00	10,902.33	35.23	384,087.35
1999	230,360.60	55.00	4,188.37	35.79	149,908.77
2000	6,456,390.86	55.00	117,388.84	36.36	4,268,254.22
2001	2,266,355.22	55.00	41,206.43	36.94	1,521,960.43
2002	1,387,706.79	55.00	25,231.02	37.52	946,569.67
2003	1,983,806.66	55.00	36,069.19	38.11	1,374,453.78
2004	204,864.73	55.00	3,724.81	38.70	144,163.67
2005	814,250.99	55.00	14,804.55	39.31	581,955.40
2006	1,009,776.60	55.00	18,359.56	39.92	732,972.10
2007	46,539.86	55.00	846.18	40.54	34,307.75
2008	2,849,140.44	55.00	51,802.52	41.18	2,133,063.22
2009	17,686,455.46	55.00	321,571.69	41.82	13,447,798.72
2010	20,483,746.66	55.00	372,431.50	42.47	15,817,637.69
2011	16,053,015.59	55.00	291,872.81	43.13	12,589,703.23
2012	3,496,681.74	55.00	63,575.99	43.81	2,785,162.04
2013	231,088.74	55.00	4,201.61	44.49	186,941.26
2014	10,269,815.58	55.00	186,723.79	45.19	8,438,447.43
2015	149,213.17	55.00	2,712.96	45.90	124,538.27
2016	446,427.21	55.00	8,116.85	46.63	378,503.16
2017	990,597.57	55.00	18,010.85	47.37	853,242.17
2018	421,177.10	55.00	7,657.76	48.13	368,562.20
2019	208,842.04	55.00	3,797.13	48.91	185,701.42
2020	2,243,371.63	55.00	40,788.55	49.70	2,027,238.42
2021	2,311,174.12	55.00	42,021.32	50.52	2,122,791.33

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	7,852,783.99	55.00	142,777.79	51.36	7,332,392.45
2023	12,748,818.46	55.00	231,796.54	52.22	12,104,041.29
2025	1,588,339.04	55.00	28,878.87	54.03	1,560,365.29
Total	298,397,719.89	54.04	5,422,177.41	34.42	186,627,098.39

Composite Average Remaining Life ... 34.42 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.70 Structures - General

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1939	3,411.97	0.00	0.00	0.00	0.00
1972	444.00	35.00	12.69	4.52	57.31
1984	11,137.33	35.00	318.21	8.51	2,709.09
1993	16,791.36	35.00	479.75	12.09	5,801.07
1994	28,966.43	35.00	827.61	12.53	10,371.19
1997	5,808.00	35.00	165.94	13.91	2,308.55
2003	3,734.52	35.00	106.70	17.00	1,813.55
2007	1,132.52	35.00	32.36	19.35	626.07
2008	352,581.82	35.00	10,073.76	19.98	201,269.69
2009	44,295.19	35.00	1,265.58	20.63	26,106.57
2010	5,400.95	35.00	154.31	21.30	3,286.56
2011	7,070.39	35.00	202.01	21.99	4,441.86
2012	28,333.08	35.00	809.52	22.70	18,375.56
2013	25,147.02	35.00	718.49	23.43	16,835.83
2014	411,945.03	35.00	11,769.86	24.19	284,685.78
2015	1,017,794.79	35.00	29,079.85	24.97	726,007.55
2016	9,144.35	35.00	261.27	25.77	6,731.88
2017	131,099.65	35.00	3,745.70	26.59	99,606.96
2018	369,497.94	35.00	10,557.08	27.44	289,710.18
2019	84,245.96	35.00	2,407.03	28.32	68,157.34
2020	174,483.42	35.00	4,985.24	29.21	145,634.21
2021	644,053.82	35.00	18,401.53	30.13	554,489.15
2022	1,084,723.04	35.00	30,992.08	31.07	963,040.59
2023	771,776.36	35.00	22,050.75	32.03	706,356.81
2024	2,019,804.56	35.00	57,708.69	33.01	1,905,016.79
2025	695,829.05	35.00	19,880.83	34.00	675,979.18
2026	78,801.98	35.00	2,251.48	34.75	78,238.97

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.70 Structures - General

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	8,027,454.53	33.70	229,258.31	29.65	6,797,658.28

Composite Average Remaining Life ... 29.65 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
355.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1980	3,900.49	35.00	111.44	8.27	922.13
1983	14,573.73	35.00	416.39	9.39	3,908.60
1987	19,246.40	35.00	549.90	10.94	6,014.04
1989	49,338.78	35.00	1,409.68	11.75	16,557.25
1990	7,692.28	35.00	219.78	12.16	2,672.31
1992	59,866.38	35.00	1,710.46	13.01	22,247.53
1993	260,597.74	35.00	7,445.63	13.44	100,079.50
1994	12,067.19	35.00	344.78	13.88	4,786.75
1997	30,447.00	35.00	869.91	15.26	13,274.70
1998	74,281.11	35.00	2,122.31	15.74	33,397.57
1999	54,144.46	35.00	1,546.98	16.22	25,095.98
2000	97,004.84	35.00	2,771.56	16.72	46,336.82
2001	38,477.83	35.00	1,099.36	17.23	18,936.79
2002	56,915.93	35.00	1,626.17	17.74	28,851.46
2005	68,295.28	35.00	1,951.29	19.37	37,787.18
2007	12,208.69	35.00	348.82	20.51	7,154.73
2008	1,263,581.59	35.00	36,102.23	21.11	761,944.63
2009	2,513,725.97	35.00	71,820.55	21.71	1,559,425.06
2010	20,681.36	35.00	590.89	22.34	13,198.85
2011	62,203.16	35.00	1,777.23	22.98	40,835.96
2012	81,422.26	35.00	2,326.34	23.63	54,981.39
2013	26,762.41	35.00	764.64	24.31	18,587.21
2014	609,411.88	35.00	17,411.72	25.00	435,306.67
2015	84,106.93	35.00	2,403.05	25.71	61,786.71
2016	10,498.31	35.00	299.95	26.44	7,931.00
2017	13,046.73	35.00	372.76	27.19	10,136.21
2018	4,307.88	35.00	123.08	27.96	3,441.89

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
355.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2019	9,195.02	35.00	262.71	28.76	7,555.13
2020	160,993.90	35.00	4,599.81	29.57	136,035.83
2021	241,827.33	35.00	6,909.33	30.41	210,138.29
2022	226,859.70	35.00	6,481.69	31.28	202,729.39
2023	90,971.14	35.00	2,599.17	32.16	83,600.64
2024	88,903.89	35.00	2,540.10	33.08	84,026.08
2025	764,953.95	35.00	21,855.77	34.02	743,605.96
2026	150,000.00	35.00	4,285.70	34.75	148,933.43
Total	7,282,511.54	35.00	208,071.19	23.80	4,952,223.66

Composite Average Remaining Life ... 23.80 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
360.10 Collection Sewers - Force Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 75 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1935	46,479.68	75.00	619.73	9.12	5,649.64
1957	7,017.77	75.00	93.57	18.18	1,700.94
1958	32,439.89	75.00	432.53	18.73	8,100.44
1965	13,312.07	75.00	177.49	22.92	4,068.32
1972	81,989.59	75.00	1,093.19	27.63	30,202.35
1973	125,512.54	75.00	1,673.50	28.34	47,420.03
1974	1,497,279.66	75.00	19,963.73	29.06	580,081.51
1975	848,628.94	75.00	11,315.05	29.78	336,995.02
1976	970,148.34	75.00	12,935.31	30.52	394,741.30
1977	458,278.66	75.00	6,110.38	31.26	191,023.67
1978	270,029.88	75.00	3,600.40	32.01	115,258.02
1979	73,663.59	75.00	982.18	32.77	32,186.17
1980	153,333.12	75.00	2,044.44	33.54	68,568.15
1981	160,772.77	75.00	2,143.64	34.31	73,552.78
1982	49,947.27	75.00	665.96	35.09	23,370.12
1983	192,190.75	75.00	2,562.54	35.88	91,951.33
1985	309,658.34	75.00	4,128.78	37.48	154,744.15
1986	64,179.15	75.00	855.72	38.29	32,766.43
1987	225,759.49	75.00	3,010.13	39.11	117,716.46
1988	488,759.72	75.00	6,516.80	39.93	260,207.94
1989	92,040.24	75.00	1,227.20	40.76	50,021.29
1990	94,015.68	75.00	1,253.54	41.60	52,142.50
1991	75,406.03	75.00	1,005.41	42.44	42,667.49
1992	34,658.68	75.00	462.12	43.29	20,004.28
1993	576,129.44	75.00	7,681.73	44.14	339,095.90
1994	284,849.73	75.00	3,798.00	45.00	170,923.29
1995	932,773.48	75.00	12,436.98	45.87	570,515.20

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
360.10 Collection Sewers - Force Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 75 *Survivor Curve:* R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1996	132,223.77	75.00	1,762.98	46.75	82,411.15
1997	1,677,251.22	75.00	22,363.35	47.62	1,065,018.57
1998	656,696.70	75.00	8,755.96	48.51	424,747.46
1999	458,770.01	75.00	6,116.93	49.40	302,172.56
2000	600,881.37	75.00	8,011.75	50.29	402,944.32
2001	861,380.28	75.00	11,485.07	51.20	587,994.46
2002	1,673,772.44	75.00	22,316.96	52.10	1,162,760.60
2003	408,112.78	75.00	5,441.50	53.01	288,467.20
2004	2,395,283.13	75.00	31,937.11	53.93	1,722,353.55
2005	654,538.20	75.00	8,727.18	54.85	478,684.10
2006	1,952,921.28	75.00	26,038.95	55.77	1,452,305.81
2007	1,273,610.46	75.00	16,981.47	56.71	962,935.13
2008	4,685,962.53	75.00	62,479.50	57.64	3,601,231.11
2009	1,042,001.08	75.00	13,893.35	58.58	813,816.53
2010	744,871.78	75.00	9,931.62	59.52	591,118.73
2013	290,505.05	75.00	3,873.40	62.37	241,571.24
2014	4,342,455.84	75.00	57,899.41	63.32	3,666,340.44
2015	2,379,137.30	75.00	31,721.83	64.28	2,039,124.45
2016	3,118,339.25	75.00	41,577.86	65.24	2,712,721.86
2017	3,465,621.85	75.00	46,208.29	66.21	3,059,419.57
2018	1,041,950.42	75.00	13,892.67	67.18	933,264.88
2019	4,281,939.91	75.00	57,092.53	68.15	3,890,726.23
2020	2,056,895.20	75.00	27,425.27	69.12	1,895,644.03
2021	2,129,358.87	75.00	28,391.45	70.10	1,990,101.38
2022	1,466,734.30	75.00	19,556.46	71.07	1,389,931.05
2023	2,383,119.17	75.00	31,774.92	72.05	2,289,439.37
2024	3,195,435.07	75.00	42,605.80	73.03	3,111,610.73

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
360.10 Collection Sewers - Force Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2025	1,682,552.91	75.00	22,434.04	74.02	1,660,471.45
2026	101,839.31	75.00	1,357.86	74.75	101,505.09
Total	59,313,415.98	75.00	790,845.52	59.10	46,736,507.78

Composite Average Remaining Life ... 59.10 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1915	20,800.43	80.00	260.01	9.20	2,392.83
1916	851.12	80.00	10.64	9.43	100.33
1917	667.72	80.00	8.35	9.67	80.71
1919	747.44	80.00	9.34	10.16	94.91
1920	97,547.06	80.00	1,219.34	10.41	12,690.56
1921	569.40	80.00	7.12	10.65	75.78
1922	3,100.65	80.00	38.76	10.90	422.53
1924	832.39	80.00	10.40	11.42	118.80
1925	2,685.38	80.00	33.57	11.69	392.24
1926	30,850.73	80.00	385.63	11.96	4,611.61
1927	4,457.85	80.00	55.72	12.24	681.94
1928	6,831.76	80.00	85.40	12.52	1,069.50
1929	6,620.90	80.00	82.76	12.81	1,060.07
1930	204,717.21	80.00	2,558.96	13.11	33,541.30
1931	12,486.56	80.00	156.08	13.41	2,093.64
1932	23,127.22	80.00	289.09	13.72	3,967.69
1933	13,725.17	80.00	171.56	14.05	2,409.89
1934	3,773.18	80.00	47.16	14.38	678.10
1935	439,277.76	80.00	5,490.97	14.72	80,810.45
1936	339,206.60	80.00	4,240.08	15.07	63,880.79
1937	53,634.16	80.00	670.43	15.42	10,340.14
1938	49,314.37	80.00	616.43	15.79	9,734.38
1939	53,519.09	80.00	668.99	16.17	10,817.44
1940	17,914.95	80.00	223.94	16.56	3,708.15
1941	7,876.61	80.00	98.46	16.96	1,669.66
1942	31,749.71	80.00	396.87	17.37	6,892.83
1943	2,128,906.99	80.00	26,611.32	17.79	473,364.99

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1944	3,824.29	80.00	47.80	18.22	871.02
1945	37,737.08	80.00	471.71	18.66	8,803.69
1946	92,312.86	80.00	1,153.91	19.12	22,058.38
1947	22,776.77	80.00	284.71	19.58	5,574.53
1948	4,759.64	80.00	59.50	20.06	1,193.29
1949	2,855.01	80.00	35.69	20.54	733.12
1950	63,111.71	80.00	788.90	21.04	16,597.68
1951	9,197.47	80.00	114.97	21.55	2,477.08
1952	3,050.73	80.00	38.13	22.06	841.34
1953	413,316.19	80.00	5,166.45	22.59	116,735.64
1954	206,559.63	80.00	2,581.99	23.13	59,730.41
1955	84,666.50	80.00	1,058.33	23.68	25,063.05
1956	36,033.45	80.00	450.42	24.24	10,919.64
1957	880,446.89	80.00	11,005.58	24.81	273,075.21
1958	41,069.76	80.00	513.37	25.39	13,034.89
1961	44,379.11	80.00	554.74	27.19	15,080.65
1962	45,153.79	80.00	564.42	27.80	15,691.16
1963	29,796.24	80.00	372.45	28.42	10,586.59
1965	301,561.49	80.00	3,769.52	29.70	111,958.04
1966	21,042,778.70	80.00	263,034.55	30.35	7,983,126.03
1968	34,132.78	80.00	426.66	31.67	13,512.81
1969	394,312.17	80.00	4,928.90	32.35	159,440.46
1970	775,334.71	80.00	9,691.68	33.03	320,100.78
1971	7,073.40	80.00	88.42	33.72	2,981.06
1972	6,152,206.31	80.00	76,902.53	34.41	2,646,467.73
1974	111,039.39	80.00	1,387.99	35.82	49,724.46
1975	3,726,795.67	80.00	46,584.91	36.54	1,702,224.15

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1976	300,267.29	80.00	3,753.34	37.26	139,857.32
1977	179,692.62	80.00	2,246.16	37.99	85,342.59
1978	78,073.99	80.00	975.92	38.73	37,798.19
1979	96,940.49	80.00	1,211.76	39.47	47,830.91
1980	3,205,663.31	80.00	40,070.76	40.22	1,611,770.97
1982	19,199.56	80.00	239.99	41.74	10,017.09
1983	24,427,267.04	80.00	305,340.62	42.51	12,978,592.58
1984	2,791,609.93	80.00	34,895.10	43.28	1,510,168.04
1985	3,476,274.13	80.00	43,453.40	44.06	1,914,519.76
1986	1,037,905.71	80.00	12,973.81	44.84	581,791.54
1987	1,003,474.62	80.00	12,543.42	45.63	572,397.84
1988	2,968,574.20	80.00	37,107.15	46.43	1,722,922.14
1989	2,333,394.87	80.00	29,167.42	47.23	1,377,651.85
1990	6,007,152.18	80.00	75,089.35	48.04	3,607,238.89
1992	5,278,517.15	80.00	65,981.42	49.67	3,277,161.92
1993	6,412,337.46	80.00	80,154.16	50.49	4,047,251.65
1994	593,278.33	80.00	7,415.97	51.32	380,596.22
1995	10,219,489.56	80.00	127,743.53	52.15	6,662,298.67
1996	417,411.79	80.00	5,217.64	52.99	276,499.89
1997	3,281,454.11	80.00	41,018.15	53.84	2,208,262.71
1998	3,172,689.02	80.00	39,658.59	54.68	2,168,680.56
1999	2,448,819.97	80.00	30,610.23	55.54	1,699,962.47
2000	3,482,494.63	80.00	43,531.15	56.39	2,454,816.11
2001	1,790,756.89	80.00	22,384.45	57.26	1,281,641.64
2002	3,117,083.73	80.00	38,963.52	58.12	2,264,628.79
2003	2,132,778.40	80.00	26,659.71	58.99	1,572,703.64
2004	1,181,942.93	80.00	14,774.28	59.87	884,474.50

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2005	7,373,787.88	80.00	92,172.28	60.75	5,599,152.29
2006	1,886,545.62	80.00	23,581.80	61.63	1,453,330.93
2007	6,270,878.10	80.00	78,385.92	62.52	4,900,363.16
2008	8,385,260.51	80.00	104,815.68	63.41	6,645,950.63
2009	7,858,218.72	80.00	98,227.67	64.30	6,316,269.28
2010	5,158,886.49	80.00	64,486.04	65.20	4,204,517.79
2011	3,145,520.94	80.00	39,318.98	66.10	2,599,061.69
2012	2,044,797.66	80.00	25,559.95	67.01	1,712,728.55
2013	4,146,142.10	80.00	51,826.74	67.92	3,519,919.91
2014	12,093,330.27	80.00	151,166.52	68.83	10,404,638.17
2015	5,348,537.36	80.00	66,856.67	69.74	4,662,849.43
2016	5,943,291.05	80.00	74,291.09	70.66	5,249,551.82
2017	15,508,922.33	80.00	193,861.39	71.58	13,877,510.89
2018	2,821,899.79	80.00	35,273.72	72.51	2,557,660.64
2019	13,399,979.75	80.00	167,499.63	73.44	12,300,487.21
2020	3,498,960.46	80.00	43,736.98	74.37	3,252,572.30
2021	5,360,545.19	80.00	67,006.77	75.30	5,045,564.83
2022	4,637,003.75	80.00	57,962.51	76.23	4,418,740.87
2023	5,002,846.82	80.00	62,535.54	77.17	4,825,992.67
2024	9,629,752.70	80.00	120,371.82	78.11	9,402,466.10
2025	11,155,854.37	80.00	139,448.08	79.06	11,024,120.60
2026	4,697,137.81	80.00	58,714.18	79.76	4,683,267.96
Total	274,944,717.73	80.00	3,436,806.57	57.71	198,349,900.33

Composite Average Remaining Life ... 57.71 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1916	1,858.59	0.00	0.00	0.00	0.00
1917	11,164.06	0.00	0.00	0.00	0.00
1921	3,697.35	0.00	0.00	0.00	0.00
1924	2,673.32	0.00	0.00	0.00	0.00
1925	127,689.05	0.00	0.00	0.00	0.00
1926	130,762.03	0.00	0.00	0.00	0.00
1927	27,990.30	0.00	0.00	0.00	0.00
1928	19,350.14	50.00	387.00	0.50	193.50
1930	100,475.18	50.00	2,009.50	0.81	1,618.49
1931	66,374.52	50.00	1,327.49	0.97	1,289.70
1932	12,339.91	50.00	246.80	1.14	282.48
1933	3,562.72	50.00	71.25	1.32	94.24
1934	9,128.63	50.00	182.57	1.50	274.76
1935	59,690.49	50.00	1,193.81	1.69	2,018.41
1936	113,228.81	50.00	2,264.58	1.88	4,256.60
1937	65,187.08	50.00	1,303.74	2.07	2,700.84
1938	67,065.03	50.00	1,341.30	2.27	3,040.00
1939	93,799.34	50.00	1,875.99	2.46	4,622.45
1940	30,988.72	50.00	619.77	2.66	1,651.31
1941	5,505.67	50.00	110.11	2.87	315.76
1942	63,793.68	50.00	1,275.87	3.07	3,921.56
1943	2,154,143.63	50.00	43,082.88	3.28	141,424.16
1944	12,801.21	50.00	256.02	3.49	894.69
1945	11,086.41	50.00	221.73	3.71	822.52
1946	67,983.45	50.00	1,359.67	3.93	5,340.45
1947	53,884.09	50.00	1,077.68	4.15	4,471.48
1948	10,596.83	50.00	211.94	4.37	926.99

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1949	8,209.54	50.00	164.19	4.60	755.62
1950	46,476.89	50.00	929.54	4.83	4,493.27
1951	24,462.07	50.00	489.24	5.07	2,480.13
1952	12,686.36	50.00	253.73	5.31	1,346.94
1953	619,978.28	50.00	12,399.57	5.55	68,840.85
1954	297,965.58	50.00	5,959.31	5.80	34,559.42
1955	125,323.70	50.00	2,506.47	6.05	15,166.27
1956	70,239.60	50.00	1,404.79	6.31	8,859.84
1957	35,553.38	50.00	711.07	6.57	4,669.92
1958	55,053.95	50.00	1,101.08	6.83	7,523.50
1961	80,007.82	50.00	1,600.16	7.66	12,256.18
1962	48,378.68	50.00	967.57	7.95	7,688.02
1963	46,545.98	50.00	930.92	8.24	7,668.66
1965	61,588.34	50.00	1,231.77	8.84	10,888.85
1966	4,547,980.68	50.00	90,959.62	9.15	832,347.71
1968	35,245.12	50.00	704.90	9.79	6,902.82
1969	77,913.00	50.00	1,558.26	10.12	15,776.26
1970	146,841.05	50.00	2,936.82	10.46	30,729.45
1971	13,692.94	50.00	273.86	10.81	2,960.58
1972	1,035,550.56	50.00	20,711.01	11.17	231,255.74
1974	8,973.92	50.00	179.48	11.90	2,136.17
1975	598,400.89	50.00	11,968.02	12.28	147,012.87
1977	42,682.64	50.00	853.65	13.08	11,162.49
1979	34,363.21	50.00	687.26	13.91	9,559.56
1980	1,191,652.53	50.00	23,833.05	14.34	341,829.88
1983	808,417.74	50.00	16,168.36	15.71	254,045.30
1984	133,837.55	50.00	2,676.75	16.19	43,347.39

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1985	767,601.12	50.00	15,352.02	16.69	256,206.04
1986	205,282.76	50.00	4,105.66	17.20	70,605.36
1987	236,305.77	50.00	4,726.12	17.72	83,744.51
1988	295,388.50	50.00	5,907.77	18.26	107,854.99
1989	21,413.09	50.00	428.26	18.81	8,054.90
1990	1,673,138.35	50.00	33,462.77	19.38	648,362.29
1992	572,466.07	50.00	11,449.32	20.56	235,375.22
1993	358,530.06	50.00	7,170.60	21.17	151,829.54
1994	240,148.58	50.00	4,802.97	21.81	104,737.13
1995	2,834,250.58	50.00	56,685.02	22.46	1,272,968.01
1996	171,595.04	50.00	3,431.90	23.12	79,361.31
1997	1,035,971.18	50.00	20,719.42	23.81	493,332.75
1998	489,358.93	50.00	9,787.18	24.51	239,920.76
1999	595,305.34	50.00	11,906.11	25.24	300,457.79
2000	573,605.11	50.00	11,472.10	25.98	297,996.22
2001	379,368.32	50.00	7,587.37	26.73	202,841.98
2002	746,546.96	50.00	14,930.94	27.51	410,763.36
2003	628,146.13	50.00	12,562.92	28.31	355,602.74
2004	602,076.27	50.00	12,041.53	29.12	350,631.01
2005	2,284,355.62	50.00	45,687.12	29.95	1,368,275.42
2006	171,019.33	50.00	3,420.39	30.80	105,335.40
2007	2,053,190.25	50.00	41,063.81	31.66	1,300,100.73
2008	2,385,842.26	50.00	47,716.85	32.54	1,552,738.92
2009	238,809.80	50.00	4,776.20	33.44	159,697.67
2010	783,402.27	50.00	15,668.05	34.35	538,136.30
2011	1,314,595.91	50.00	26,291.92	35.27	927,304.78
2012	96,979.95	50.00	1,939.60	36.21	70,224.29

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2013	1,061,771.03	50.00	21,235.42	37.15	788,959.61
2014	2,194,316.38	50.00	43,886.33	38.11	1,672,538.94
2015	5,519,102.74	50.00	110,382.06	39.08	4,313,454.42
2016	283,131.09	50.00	5,662.62	40.05	226,800.21
2017	406,385.82	50.00	8,127.72	41.03	333,508.38
2018	185,760.51	50.00	3,715.21	42.02	156,114.06
2019	153,156.71	50.00	3,063.13	43.01	131,749.60
2020	686,920.39	50.00	13,738.41	44.01	604,569.58
2021	448,218.33	50.00	8,964.37	45.00	403,419.71
2022	1,007,195.90	50.00	20,143.92	46.00	926,639.44
2023	923,446.25	50.00	18,468.93	47.00	868,044.30
2024	1,617,240.56	50.00	32,344.81	48.00	1,552,552.15
2025	1,685,589.36	50.00	33,711.79	49.00	1,651,877.77
2026	617,129.21	50.00	12,342.59	49.75	614,043.53
Total	52,078,900.07	46.32	1,035,461.38	27.27	28,233,155.23

Composite Average Remaining Life ... 27.27 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1916	7,806.31	0.00	0.00	0.00	0.00
1917	26,540.85	0.00	0.00	0.00	0.00
1919	5,017.98	0.00	0.00	0.00	0.00
1921	335.47	0.00	0.00	0.00	0.00
1922	1,885.45	0.00	0.00	0.00	0.00
1924	9,739.36	0.00	0.00	0.00	0.00
1925	375,591.20	0.00	0.00	0.00	0.00
1926	255,584.09	0.00	0.00	0.00	0.00
1927	76,017.05	0.00	0.00	0.00	0.00
1928	29,168.27	0.00	0.00	0.00	0.00
1929	107.20	0.00	0.00	0.00	0.00
1930	166,687.07	0.00	0.00	0.00	0.00
1931	100,103.45	0.00	0.00	0.00	0.00
1932	44,722.95	0.00	0.00	0.00	0.00
1933	3,111.15	0.00	0.00	0.00	0.00
1934	11,838.19	0.00	0.00	0.00	0.00
1935	79,477.10	0.00	0.00	0.00	0.00
1936	163,028.69	0.00	0.00	0.00	0.00
1937	68,214.45	0.00	0.00	0.00	0.00
1938	72,468.05	0.00	0.00	0.00	0.00
1939	56,059.17	0.00	0.00	0.00	0.00
1940	19,637.21	0.00	0.00	0.00	0.00
1941	3,916.01	0.00	0.00	0.00	0.00
1942	46,032.91	0.00	0.00	0.00	0.00
1943	3,370,512.84	0.00	0.00	0.00	0.00
1944	14,897.26	0.00	0.00	0.00	0.00
1945	12,047.42	0.00	0.00	0.00	0.00

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1946	50,187.51	0.00	0.00	0.00	0.00
1947	40,159.11	47.00	854.45	0.50	427.23
1948	3,398.43	47.00	72.31	0.54	38.86
1949	3,667.64	47.00	78.04	0.69	54.23
1950	13,463.95	47.00	286.47	0.89	255.57
1951	7,361.97	47.00	156.64	1.11	173.40
1952	3,826.17	47.00	81.41	1.31	106.66
1953	514,306.24	47.00	10,942.71	1.56	17,044.92
1954	108,282.11	47.00	2,303.88	1.81	4,159.00
1955	40,791.50	47.00	867.91	2.05	1,783.49
1956	21,872.21	47.00	465.37	2.31	1,073.66
1957	178,227.80	47.00	3,792.09	2.56	9,713.12
1958	15,676.15	47.00	333.54	2.82	939.60
1961	11,501.84	47.00	244.72	3.58	875.32
1962	16,875.57	47.00	359.06	3.84	1,377.01
1963	7,554.78	47.00	160.74	4.09	658.06
1965	57,025.05	47.00	1,213.30	4.62	5,602.57
1966	9,351,408.00	47.00	198,966.63	4.89	972,004.15
1968	12,249.09	47.00	260.62	5.43	1,416.40
1969	8,267.49	47.00	175.90	5.73	1,007.34
1970	375,927.55	47.00	7,998.48	6.03	48,230.57
1971	10,147.86	47.00	215.91	6.35	1,370.24
1972	600,468.11	47.00	12,775.95	6.68	85,304.63
1973	2,279.88	47.00	48.51	7.02	340.69
1974	8,326.62	47.00	177.16	7.39	1,308.61
1975	1,668,830.51	47.00	35,507.12	7.77	275,797.38
1976	53,840.62	47.00	1,145.55	8.17	9,356.24

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *47* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1977	56,431.70	47.00	1,200.68	8.59	10,310.02
1978	32,539.60	47.00	692.33	9.03	6,248.96
1979	44,889.97	47.00	955.11	9.49	9,059.27
1980	795,225.98	47.00	16,919.74	9.96	168,595.42
1981	72,000.90	47.00	1,531.94	10.46	16,030.17
1982	59,246.17	47.00	1,260.56	10.98	13,845.55
1983	286,759.61	47.00	6,101.28	11.53	70,321.67
1984	249,936.74	47.00	5,317.82	12.09	64,267.44
1985	1,686,548.05	47.00	35,884.09	12.66	454,434.10
1986	225,902.14	47.00	4,806.44	13.26	63,738.72
1987	757,024.65	47.00	16,106.95	13.88	223,503.46
1988	328,192.39	47.00	6,982.83	14.51	101,311.53
1989	310,612.50	47.00	6,608.79	15.16	100,174.65
1990	3,452,675.36	47.00	73,461.36	15.82	1,162,376.41
1991	78,901.02	47.00	1,678.75	16.51	27,709.59
1992	458,036.71	47.00	9,745.49	17.20	167,640.57
1993	752,653.43	47.00	16,013.94	17.91	286,838.85
1994	249,415.94	47.00	5,306.74	18.64	98,893.23
1995	6,460,501.96	47.00	137,457.83	19.37	2,662,857.50
1996	129,213.20	47.00	2,749.22	20.12	55,318.94
1997	436,803.34	47.00	9,293.71	20.88	194,084.92
1998	400,661.88	47.00	8,524.74	21.66	184,622.48
1999	276,843.10	47.00	5,890.29	22.44	132,206.00
2000	1,037,584.74	47.00	22,076.33	23.24	513,094.31
2001	362,617.68	47.00	7,715.29	24.05	185,552.73
2002	477,861.42	47.00	10,167.29	24.87	252,850.13
2003	583,528.79	47.00	12,415.54	25.70	319,061.02

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2004	951,274.13	47.00	20,239.93	26.54	537,135.25
2005	2,835,330.53	47.00	60,326.33	27.39	1,652,238.98
2006	1,001,393.18	47.00	21,306.29	28.25	601,862.99
2007	694,207.14	47.00	14,770.40	29.12	430,100.39
2008	2,560,894.36	47.00	54,487.25	30.00	1,634,504.18
2009	2,504,623.38	47.00	53,289.99	30.89	1,645,899.52
2010	961,776.50	47.00	20,463.38	31.78	650,370.02
2011	235,405.42	47.00	5,008.64	32.69	163,716.70
2012	244,464.10	47.00	5,201.38	33.60	174,763.92
2013	568,322.36	47.00	12,092.00	34.52	417,413.48
2014	645,062.15	47.00	13,724.76	35.45	486,505.81
2015	1,274,427.18	47.00	27,115.54	36.38	986,536.13
2016	681,543.89	47.00	14,500.97	37.32	541,227.84
2017	2,247,809.62	47.00	47,825.86	38.27	1,830,316.89
2018	746,525.60	47.00	15,883.56	39.22	623,000.24
2019	408,541.26	47.00	8,692.39	40.18	349,266.08
2020	976,214.77	47.00	20,770.58	41.14	854,568.82
2021	986,584.37	47.00	20,991.21	42.11	883,944.74
2022	1,385,082.95	47.00	29,469.92	43.08	1,269,602.90
2023	2,691,519.51	47.00	57,266.52	44.06	2,522,969.83
2024	2,707,922.78	47.00	57,615.52	45.03	2,594,704.05
2025	3,978,468.68	47.00	84,648.48	46.02	3,895,184.21
2026	2,941,667.76	47.00	62,588.83	46.75	2,926,243.47
Total	72,498,141.50	34.35	1,434,629.29	25.55	36,657,443.02

Composite Average Remaining Life ... 25.55 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
364.00 Flow Measuring Devices
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 15 *Survivor Curve:* L2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1989	7,979.00	15.00	531.93	1.09	577.29
1990	3,478.54	15.00	231.90	1.25	289.74
1991	8,740.98	15.00	582.73	1.42	828.33
1992	6,784.52	15.00	452.30	1.60	724.06
1999	51,368.90	15.00	3,424.58	2.97	10,169.74
2001	7,764.93	15.00	517.66	3.41	1,766.14
2002	4,455.38	15.00	297.02	3.64	1,081.74
2004	2,628.68	15.00	175.24	4.12	722.60
2005	8,722.16	15.00	581.48	4.37	2,541.67
2006	15,631.29	15.00	1,042.08	4.62	4,816.36
2007	9,030.61	15.00	602.04	4.87	2,934.17
2008	29,418.95	15.00	1,961.26	5.12	10,046.49
2009	92,082.61	15.00	6,138.83	5.37	32,950.72
2010	29,477.55	15.00	1,965.17	5.61	11,023.13
2011	53,822.99	15.00	3,588.19	5.85	20,983.41
2013	26,874.75	15.00	1,791.65	6.34	11,364.63
2014	152,277.99	15.00	10,151.84	6.62	67,189.83
2015	112,570.79	15.00	7,504.70	6.93	52,011.78
2016	5,515.89	15.00	367.73	7.29	2,682.48
2018	1,269.20	15.00	84.61	8.25	697.95
2020	30,025.23	15.00	2,001.68	9.58	19,171.47
2021	21,591.05	15.00	1,439.40	10.37	14,927.23
2024	57,960.15	15.00	3,864.00	13.03	50,365.19
Total	739,472.14	15.00	49,298.02	6.49	319,866.15

Composite Average Remaining Life ... 6.49 *Years*

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
365.00 Flow Measuring Installations

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *25* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1970	30,360.76	0.00	0.00	0.00	0.00
1991	227,265.28	25.00	9,090.61	3.17	28,800.41
2009	14,938.00	25.00	597.52	10.28	6,143.34
Total	272,564.04	16.67	9,688.13	3.61	34,943.75

Composite Average Remaining Life ... 3.61 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
370.00 Receiving Wells

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2007	6,261.10	50.00	125.22	32.04	4,012.64
2009	92,112.20	50.00	1,842.24	33.83	62,323.22
2013	33,467.05	50.00	669.34	37.49	25,095.59
2017	1,547.02	50.00	30.94	41.26	1,276.59
2019	544,001.01	50.00	10,880.01	43.18	469,746.36
Total	677,388.38	50.00	13,547.76	41.52	562,454.41

Composite Average Remaining Life ... 41.52 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
371.00 Pumping Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 30 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1968	44,572.44	30.00	1,485.74	0.78	1,154.98
1985	24,280.85	30.00	809.36	6.53	5,283.65
1986	79,867.67	30.00	2,662.25	6.89	18,334.72
1987	7,642.10	30.00	254.74	7.25	1,847.11
1989	25,280.42	30.00	842.68	7.99	6,735.92
1990	1,853.38	30.00	61.78	8.37	517.27
1992	112,359.73	30.00	3,745.32	9.15	34,266.60
1993	163,262.78	30.00	5,442.08	9.55	51,955.88
1994	15,771.64	30.00	525.72	9.95	5,231.89
1996	56,409.97	30.00	1,880.33	10.78	20,276.50
1997	43,345.71	30.00	1,444.85	11.21	16,198.73
1998	108,357.25	30.00	3,611.90	11.65	42,070.84
1999	540,107.38	30.00	18,003.54	12.09	217,722.42
2001	14,941.44	30.00	498.05	13.01	6,481.36
2002	61,264.91	30.00	2,042.16	13.49	27,547.03
2003	120,300.61	30.00	4,010.01	13.98	56,043.15
2004	165,809.78	30.00	5,526.98	14.47	80,001.70
2005	101,196.51	30.00	3,373.21	14.99	50,549.55
2006	40,939.15	30.00	1,364.64	15.51	21,164.51
2007	6,013.71	30.00	200.46	16.05	3,216.81
2008	923,937.02	30.00	30,797.84	16.60	511,223.37
2009	596,255.90	30.00	19,875.16	17.17	341,180.49
2010	522,835.51	30.00	17,427.81	17.75	309,342.51
2011	66,689.05	30.00	2,222.96	18.35	40,790.50
2012	41,731.69	30.00	1,391.05	18.97	26,383.57
2013	60,139.67	30.00	2,004.65	19.60	39,297.66
2014	1,683,853.99	30.00	56,128.35	20.26	1,137,062.18

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
371.00 Pumping Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *30* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2015	231,479.33	30.00	7,715.96	20.93	161,520.31
2016	616,593.57	30.00	20,553.08	21.63	444,580.84
2017	394,652.60	30.00	13,155.06	22.35	294,009.92
2018	470,630.36	30.00	15,687.65	23.09	362,246.35
2019	3,678,520.27	30.00	122,617.09	23.86	2,925,459.11
2020	647,002.61	30.00	21,566.71	24.65	531,615.62
2021	200,411.06	30.00	6,680.35	25.47	170,129.45
2022	2,630,308.32	30.00	87,676.76	26.31	2,307,071.98
2023	2,045,192.82	30.00	68,172.95	27.19	1,853,410.12
2024	1,053,884.16	30.00	35,129.40	28.09	986,785.14
2025	2,753,247.83	30.00	91,774.74	29.03	2,663,942.87
2026	108,359.40	30.00	3,611.97	29.75	107,463.22
Total	20,459,302.59	30.00	681,975.33	23.29	15,880,115.82

Composite Average Remaining Life ... 23.29 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
380.00 Treatment Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1951	883,022.26	0.00	0.00	0.00	0.00
1957	9,974.93	35.00	285.00	0.50	142.50
1963	78,254.64	35.00	2,235.85	1.85	4,139.30
1965	82,976.23	35.00	2,370.75	2.35	5,577.84
1967	161,338.58	35.00	4,609.67	2.86	13,184.47
1969	2,135.68	35.00	61.02	3.36	204.85
1973	942.49	35.00	26.93	4.38	117.94
1981	2,349,282.72	35.00	67,122.36	6.61	443,846.42
1984	579,942.00	35.00	16,569.77	7.55	125,086.77
1985	475,390.93	35.00	13,582.60	7.88	107,001.33
1986	718,183.56	35.00	20,519.53	8.22	168,580.03
1987	144,005.43	35.00	4,114.44	8.56	35,231.43
1988	807,069.17	35.00	23,059.12	8.92	205,702.55
1989	1,180,166.51	35.00	33,719.04	9.29	313,190.24
1990	2,525,982.44	35.00	72,170.92	9.67	697,681.75
1991	2,228,120.32	35.00	63,660.58	10.06	640,282.14
1992	800,446.34	35.00	22,869.89	10.46	239,238.22
1993	3,123,569.61	35.00	89,244.84	10.88	970,710.70
1994	58,409.18	35.00	1,668.83	11.31	18,868.97
1995	7,326.38	35.00	209.33	11.75	2,459.61
1996	78,496.10	35.00	2,242.75	12.21	27,382.32
1997	20,020.97	35.00	572.03	12.68	7,255.63
1998	3,732,376.20	35.00	106,639.31	13.18	1,404,993.61
1999	1,075,080.44	35.00	30,716.58	13.68	420,305.88
2000	5,184.07	35.00	148.12	14.21	2,104.62
2001	1,762,179.95	35.00	50,348.00	14.75	742,807.35
2002	620,800.49	35.00	17,737.16	15.32	271,654.18

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
380.00 Treatment Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S1.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2003	2,040,239.31	35.00	58,292.55	15.90	926,788.88
2004	697,649.55	35.00	19,932.84	16.50	328,943.99
2005	2,240,663.42	35.00	64,018.95	17.13	1,096,463.44
2006	691,844.48	35.00	19,766.98	17.77	351,320.43
2007	56,136.69	35.00	1,603.91	18.44	29,577.35
2008	934,814.77	35.00	26,708.99	19.13	510,963.27
2009	18,920,341.69	35.00	540,581.15	19.84	10,726,025.13
2010	21,356,104.88	35.00	610,174.38	20.58	12,555,713.83
2011	7,087,271.96	35.00	202,493.47	21.34	4,320,302.62
2012	4,795,780.45	35.00	137,022.29	22.12	3,030,434.14
2013	3,050,100.31	35.00	87,145.72	22.92	1,997,340.92
2014	8,805,589.90	35.00	251,588.27	23.74	5,973,894.66
2015	1,026,634.71	35.00	29,332.42	24.59	721,323.30
2016	541,143.00	35.00	15,461.23	25.46	393,603.30
2017	651,642.83	35.00	18,618.37	26.35	490,503.72
2018	4,754,516.64	35.00	135,843.32	27.25	3,701,950.37
2019	1,905,584.56	35.00	54,445.27	28.18	1,534,028.80
2020	8,555,129.67	35.00	244,432.26	29.12	7,116,839.51
2021	10,537,780.31	35.00	301,079.42	30.07	9,053,652.30
2022	11,386,761.79	35.00	325,336.03	31.04	10,097,943.61
2023	11,445,871.83	35.00	327,024.89	32.02	10,470,365.48
2024	4,163,369.49	35.00	118,953.41	33.01	3,926,119.31
2025	4,713,785.71	35.00	134,679.58	34.00	4,579,211.56
2026	279,518.83	35.00	7,986.25	34.75	277,522.03

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
380.00 Treatment Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	154,148,954.40	34.31	4,379,026.33	23.08	101,078,582.63

Composite Average Remaining Life ... *23.08 Years*

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
381.00 Plant Sewers

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2008	294,411.86	50.00	5,888.23	32.93	193,917.75
2009	4,434,866.70	50.00	88,697.29	33.83	3,000,636.03
2010	1,187,964.50	50.00	23,759.28	34.73	825,275.68
2011	6,597.06	50.00	131.94	35.65	4,703.33
2012	1,684.33	50.00	33.69	36.57	1,231.81
2014	234,044.45	50.00	4,680.89	38.43	179,866.97
2015	4,256.52	50.00	85.13	39.36	3,351.14
2016	45,239.43	50.00	904.79	40.31	36,471.64
2021	1,641.43	50.00	32.83	45.11	1,480.83
2022	431,044.32	50.00	8,620.88	46.08	397,252.52
2025	13,045.20	50.00	260.90	49.02	12,788.47
Total	6,654,795.80	50.00	133,095.85	34.99	4,656,976.16

Composite Average Remaining Life ... 34.99 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
382.00 Outfall Sewer Lines

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1957	12,139.53	50.00	242.79	3.85	933.80
1975	4,177.28	50.00	83.55	9.63	804.60
1993	192,691.50	50.00	3,853.83	20.59	79,362.65
2004	1,695.94	50.00	33.92	29.43	998.20
2005	9,240.93	50.00	184.82	30.29	5,598.51
2006	201,117.58	50.00	4,022.35	31.16	125,351.47
2009	26,051.26	50.00	521.02	33.83	17,626.31
2010	27,827.93	50.00	556.56	34.73	19,331.99
2014	100,305.10	50.00	2,006.10	38.43	77,086.10
2017	18,433.32	50.00	368.67	41.26	15,211.10
2023	33,315.31	50.00	666.31	47.06	31,353.60
Total	626,995.68	50.00	12,539.91	29.80	373,658.32

Composite Average Remaining Life ... 29.80 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
389.10 Other Plant - Intangibles

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2010	273,149.74	20.00	13,657.49	6.88	94,015.04
2013	8,814.50	20.00	440.73	8.60	3,789.47
2022	91,911.93	20.00	4,595.60	16.02	73,625.85
2023	1,990,538.30	20.00	99,526.92	17.01	1,692,571.81
2024	272,366.55	20.00	13,618.33	18.00	245,144.11
2025	22,280.04	20.00	1,114.00	19.00	21,166.09
Total	2,659,061.06	20.00	132,953.06	16.02	2,130,312.38

Composite Average Remaining Life ... 16.02 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
391.00 Transportation Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 14 *Survivor Curve:* L4

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1986	6,625.93	0.00	0.00	0.00	0.00
1987	468.88	0.00	0.00	0.00	0.00
1990	30,431.59	0.00	0.00	0.00	0.00
1991	21,931.10	0.00	0.00	0.00	0.00
2000	5,861.06	14.00	418.64	0.79	330.54
2001	22,361.85	14.00	1,597.24	0.90	1,444.52
2002	5,389.24	14.00	384.94	1.03	395.53
2005	3,310.52	14.00	236.46	1.49	352.18
2006	73,113.90	14.00	5,222.30	1.67	8,730.24
2011	149,228.96	14.00	10,658.97	2.64	28,134.25
2012	73,865.31	14.00	5,275.97	2.78	14,673.47
2013	62,726.96	14.00	4,480.40	2.99	13,409.62
2014	3,075.33	14.00	219.66	3.35	736.08
2016	2,423.80	14.00	173.12	4.58	793.57
2017	8,526.46	14.00	609.02	5.36	3,265.03
2018	927,895.26	14.00	66,276.73	6.20	410,798.97
2019	299,081.56	14.00	21,362.48	7.09	151,447.91
2020	26,190.18	14.00	1,870.68	8.03	15,020.58
2022	1,422,366.36	14.00	101,595.29	10.00	1,016,004.79
2023	1,165,809.58	14.00	83,270.22	11.00	915,998.91
2024	422,529.36	14.00	30,179.98	12.00	362,169.39
2025	3,630.70	14.00	259.33	13.00	3,371.37
2026	49,317.00	14.00	3,522.56	13.75	48,436.36
Total	4,786,160.89	11.57	337,614.02	8.87	2,995,513.30

Composite Average Remaining Life ... 8.87 *Years*

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
395.00 Power Operated Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *22* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2011	345,636.00	22.00	15,710.44	10.07	158,139.12
2015	3,257.24	22.00	148.05	12.86	1,904.12
2018	19,634.12	22.00	892.44	15.16	13,533.42
2022	64,677.17	22.00	2,939.82	18.47	54,298.53
2023	3,895.80	22.00	177.08	19.33	3,423.48
Total	437,100.33	22.00	19,867.84	11.64	231,298.68

Composite Average Remaining Life ... 11.64 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
354.20 Structures - Collection

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *43* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2026	465,513.27	43.00	10,825.97	42.75	462,845.91
Total	465,513.27	43.00	10,825.97	42.75	462,845.91

Composite Average Remaining Life ... *42.75 Years*

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
354.30 Structures - SPP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1964	699,951.35	55.00	12,726.38	18.80	239,258.29
1969	27,685.26	55.00	503.37	20.98	10,560.43
1972	5,390.11	55.00	98.00	22.32	2,187.12
1979	312,467.50	55.00	5,681.22	25.54	145,086.80
1980	1,925,421.49	55.00	35,007.64	26.01	910,563.99
1981	1,006,124.74	55.00	18,293.16	26.49	484,525.68
1992	367,539.24	55.00	6,682.53	31.98	213,739.39
1999	101,094.83	55.00	1,838.09	35.79	65,788.17
2005	55,968.06	55.00	1,017.60	39.31	40,001.07
2010	464,545.22	55.00	8,446.27	42.47	358,723.83
2012	94,838.48	55.00	1,724.33	43.81	75,540.34
2013	22,305,947.27	55.00	405,562.40	44.49	18,044,591.32
2014	8,206,912.04	55.00	149,216.48	45.19	6,743,411.83
2016	592,801.05	55.00	10,778.19	46.63	502,606.17
2018	792,190.90	55.00	14,403.46	48.13	693,227.68
2023	9,247.84	55.00	168.14	52.22	8,780.13
Total	36,968,125.38	55.00	672,147.27	42.46	28,538,592.23

Composite Average Remaining Life ... 42.46 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1964	535,164.61	55.00	9,730.26	18.80	182,930.67
1965	1,945,016.40	55.00	35,363.91	19.23	680,093.53
1982	12,187,003.00	55.00	221,581.72	26.97	5,975,285.02
1993	445,465.16	55.00	8,099.36	32.51	263,326.96
1994	220,388.44	55.00	4,007.06	33.04	132,411.29
1995	91,800.02	55.00	1,669.09	33.58	56,051.92
2007	156,375.15	55.00	2,843.18	40.54	115,274.93
2011	840,813.68	55.00	15,287.51	43.13	659,414.72
2016	14,574.90	55.00	265.00	46.63	12,357.32
2017	164,519.97	55.00	2,991.27	47.37	141,707.77
2019	360,662.79	55.00	6,557.50	48.91	320,699.76
2022	54,845.32	55.00	997.19	51.36	51,210.81
2023	236,710.97	55.00	4,303.83	52.22	224,739.21
2024	9,360.58	55.00	170.19	53.11	9,038.22
2025	5,735.27	55.00	104.28	54.03	5,634.26
Total	17,268,436.26	55.00	313,971.35	28.12	8,830,176.38

Composite Average Remaining Life ... 28.12 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
354.70 Structures - General

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1966	149,324.09	55.00	2,714.98	19.66	53,389.36
1982	1,245,413.24	55.00	22,643.86	26.97	610,625.85
2003	634,129.87	55.00	11,529.63	38.11	439,348.36
2011	1,029,041.52	55.00	18,709.83	43.13	807,033.87
2012	723,884.30	55.00	13,161.52	43.81	576,585.24
2013	2,174,732.42	55.00	39,540.56	44.49	1,759,268.83
2015	123,299.61	55.00	2,241.81	45.90	102,909.95
2016	137,968.40	55.00	2,508.51	46.63	116,976.46
2020	9,169.51	55.00	166.72	49.70	8,286.09
2021	1,055,309.84	55.00	19,187.44	50.52	969,292.00
2023	54,934.10	55.00	998.80	52.22	52,155.78
2024	58,548.84	55.00	1,064.52	53.11	56,532.53
2025	30,537.24	55.00	555.22	54.03	29,999.42
2026	321,511.39	55.00	5,845.66	54.76	320,080.47
Total	7,747,804.37	55.00	140,869.07	41.90	5,902,484.20

Composite Average Remaining Life ... 41.90 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
355.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1999	15,782.30	35.00	450.92	16.22	7,315.10
2000	52,360.25	35.00	1,496.00	16.72	25,011.20
2001	346,845.16	35.00	9,909.83	17.23	170,699.17
2005	41,623.25	35.00	1,189.23	19.37	23,029.78
2010	15,509.83	35.00	443.14	22.34	9,898.38
2013	621,166.53	35.00	17,747.57	24.31	431,416.73
2014	40,215.83	35.00	1,149.02	25.00	28,726.42
2016	74,060.67	35.00	2,116.01	26.44	55,949.51
2018	28,901.95	35.00	825.77	27.96	23,091.94
2021	63,989.80	35.00	1,828.28	30.41	55,604.58
2023	11,610.76	35.00	331.74	32.16	10,670.05
Total	1,312,066.33	35.00	37,487.51	22.45	841,412.86

Composite Average Remaining Life ... 22.45 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
360.10 Collection Sewers - Force Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1964	17,896.31	75.00	238.62	22.29	5,317.76
1969	43,735.32	75.00	583.14	25.55	14,900.41
1979	1,160,481.90	75.00	15,473.09	32.77	507,054.72
1980	3,297,197.01	75.00	43,962.63	33.54	1,474,454.40
2005	120,689.76	75.00	1,609.20	54.85	88,264.17
2010	48,159.59	75.00	642.13	59.52	38,218.71
2013	2,816,323.60	75.00	37,550.98	62.37	2,341,930.98
2016	85,454.40	75.00	1,139.39	65.24	74,338.93
2018	197,446.89	75.00	2,632.63	67.18	176,851.26
2023	76,315.55	75.00	1,017.54	72.05	73,315.61
2024	435,613.23	75.00	5,808.18	73.03	424,185.99
2025	135,260.74	75.00	1,803.48	74.02	133,485.61
2026	3,606.01	75.00	48.08	74.75	3,594.18
Total	8,438,180.31	75.00	112,509.07	47.60	5,355,912.72

Composite Average Remaining Life ... 47.60 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *80* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1928	3,659,730.83	80.00	45,746.60	12.52	572,922.95
1935	4,043,628.97	80.00	50,545.33	14.72	743,874.42
1945	1,716,839.87	80.00	21,460.48	18.66	400,521.78
1954	1,190,614.61	80.00	14,882.67	23.13	344,287.52
1955	3,535,209.08	80.00	44,190.08	23.68	1,046,495.73
1960	5,237,070.83	80.00	65,463.34	26.57	1,739,648.41
1963	1,032,624.70	80.00	12,907.80	28.42	366,891.15
1964	2,084,731.91	80.00	26,059.13	29.06	757,264.41
1965	194,550.90	80.00	2,431.88	29.70	72,229.18
1967	444,593.48	80.00	5,557.41	31.01	172,318.26
1970	1,796,091.52	80.00	22,451.13	33.03	741,525.29
1972	271,646.53	80.00	3,395.58	34.41	116,853.00
1973	77,889.70	80.00	973.62	35.12	34,189.40
1974	3,489.31	80.00	43.62	35.82	1,562.55
1979	14,522,884.05	80.00	181,535.92	39.47	7,165,662.21
1980	24,728,037.13	80.00	309,100.25	40.22	12,432,975.17
1985	51,977.75	80.00	649.72	44.06	28,626.17
1986	92,212.03	80.00	1,152.65	44.84	51,688.88
1991	110,558.78	80.00	1,381.98	48.85	67,511.43
1993	843,689.70	80.00	10,546.11	50.49	532,508.55
1994	469,999.79	80.00	5,874.99	51.32	301,511.34
1997	195,966.37	80.00	2,449.58	53.84	131,876.06
1999	76,223.03	80.00	952.79	55.54	52,913.77
2000	295,906.92	80.00	3,698.83	56.39	208,585.27
2001	37,611.80	80.00	470.15	57.26	26,918.70
2002	705,534.65	80.00	8,819.18	58.12	512,586.19
2003	94,213.48	80.00	1,177.67	58.99	69,472.70

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
361.10 Collection Sewers - Gravity Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *80* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2004	360,149.25	80.00	4,501.86	59.87	269,507.79
2005	111,335.04	80.00	1,391.69	60.75	84,540.25
2006	283,698.03	80.00	3,546.22	61.63	218,551.37
2007	5,701,256.57	80.00	71,265.66	62.52	4,455,233.74
2008	119,917.19	80.00	1,498.96	63.41	95,043.41
2009	235,006.28	80.00	2,937.58	64.30	188,893.06
2010	245,497.14	80.00	3,068.71	65.20	200,081.37
2011	17,426.86	80.00	217.84	66.10	14,399.36
2012	3,757,198.00	80.00	46,964.94	67.01	3,147,040.12
2013	391,690.44	80.00	4,896.13	67.92	332,530.57
2014	4,327,571.65	80.00	54,094.61	68.83	3,723,276.90
2015	19,800.81	80.00	247.51	69.74	17,262.33
2016	567,003.53	80.00	7,087.54	70.66	500,819.22
2018	466,078.66	80.00	5,825.98	72.51	422,435.64
2019	113,357.36	80.00	1,416.97	73.44	104,056.18
2020	192,757.46	80.00	2,409.47	74.37	179,183.96
2021	285,015.06	80.00	3,562.69	75.30	268,267.86
2022	351,121.63	80.00	4,389.02	76.23	334,594.40
2023	276,230.51	80.00	3,452.88	77.17	266,465.57
2024	211,201.17	80.00	2,640.01	78.11	206,216.29
2025	126,662.93	80.00	1,583.29	79.06	125,167.23
2026	1,904,722.05	80.00	23,809.01	79.76	1,899,097.73
Total	87,578,225.34	80.00	1,094,727.05	41.79	45,746,084.81

Composite Average Remaining Life ... 41.79 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1928	133,710.10	50.00	2,674.20	0.50	1,337.10
1935	143,048.75	50.00	2,860.98	1.69	4,837.14
1945	184,416.98	50.00	3,688.34	3.71	13,682.27
1954	139,649.55	50.00	2,792.99	5.80	16,197.20
1955	406,874.57	50.00	8,137.49	6.05	49,238.64
1960	620,032.65	50.00	12,400.65	7.38	91,499.41
1963	109,170.67	50.00	2,183.41	8.24	17,986.37
1964	318,117.18	50.00	6,362.34	8.54	54,307.48
1965	26,023.94	50.00	520.48	8.84	4,601.04
1967	40,642.73	50.00	812.85	9.47	7,696.25
1970	280,176.33	50.00	5,603.53	10.46	58,632.55
1972	6,427.30	50.00	128.55	11.17	1,435.32
1973	13,196.73	50.00	263.93	11.53	3,043.05
1979	2,334,507.57	50.00	46,690.15	13.91	649,440.34
1980	3,844,980.20	50.00	76,899.61	14.34	1,102,946.61
1985	33,652.99	50.00	673.06	16.69	11,232.53
1986	9,040.67	50.00	180.81	17.20	3,109.47
1991	15,507.41	50.00	310.15	19.96	6,190.16
1993	123,674.96	50.00	2,473.50	21.17	52,373.61
1994	54,666.35	50.00	1,093.33	21.81	23,841.89
1997	33,687.36	50.00	673.75	23.81	16,042.03
1999	14,805.92	50.00	296.12	25.24	7,472.73
2000	45,581.84	50.00	911.64	25.98	23,680.43
2001	30,843.66	50.00	616.87	26.73	16,491.60
2002	99,255.18	50.00	1,985.10	27.51	54,611.96
2003	478,015.52	50.00	9,560.31	28.31	270,611.60
2004	701,316.92	50.00	14,026.34	29.12	408,425.76

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2005	38,617.47	50.00	772.35	29.95	23,130.96
2006	57,803.61	50.00	1,156.07	30.80	35,602.80
2007	3,028.11	50.00	60.56	31.66	1,917.43
2008	78,067.52	50.00	1,561.35	32.54	50,807.41
2009	11,484.84	50.00	229.70	33.44	7,680.18
2010	56,286.45	50.00	1,125.73	34.35	38,664.40
2011	336,347.96	50.00	6,726.96	35.27	237,256.99
2012	485,107.23	50.00	9,702.15	36.21	351,271.70
2014	13,493.58	50.00	269.87	38.11	10,285.00
2016	103,973.53	50.00	2,079.47	40.05	83,287.28
2018	62,427.35	50.00	1,248.55	42.02	52,464.26
2019	62,386.01	50.00	1,247.72	43.01	53,666.16
2020	16,501.98	50.00	330.04	44.01	14,523.66
2021	140,858.75	50.00	2,817.18	45.00	126,780.17
2022	219,114.43	50.00	4,382.29	46.00	201,589.46
2023	49,274.81	50.00	985.50	47.00	46,318.58
2024	88,498.50	50.00	1,769.97	48.00	84,958.63
2025	36,190.85	50.00	723.82	49.00	35,467.04
2026	88,456.60	50.00	1,769.13	49.75	88,014.31
Total	12,188,943.61	50.00	243,778.89	18.52	4,514,650.93

Composite Average Remaining Life ... 18.52 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *47* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1930	480,909.09	0.00	0.00	0.00	0.00
1935	522,751.85	0.00	0.00	0.00	0.00
1945	458,036.62	0.00	0.00	0.00	0.00
1954	96,464.54	47.00	2,052.44	1.81	3,705.10
1955	648,154.76	47.00	13,790.56	2.05	28,338.65
1960	794,402.51	47.00	16,902.22	3.32	56,091.29
1965	15,574.52	47.00	331.37	4.62	1,530.16
1967	3,852.54	47.00	81.97	5.16	422.87
1969	86,379.66	47.00	1,837.87	5.73	10,524.82
1970	119,995.04	47.00	2,553.09	6.03	15,395.06
1972	1,340.33	47.00	28.52	6.68	190.41
1973	4,535.78	47.00	96.51	7.02	677.80
1979	22,011.66	47.00	468.33	9.49	4,442.19
1980	4,280,810.23	47.00	91,081.30	9.96	907,572.20
1985	678.10	47.00	14.43	12.66	182.71
1986	3,707.82	47.00	78.89	13.26	1,046.17
1991	6,163.77	47.00	131.14	16.51	2,164.68
1993	68,141.29	47.00	1,449.82	17.91	25,968.88
1994	88,345.28	47.00	1,879.69	18.64	35,028.83
1997	11,301.22	47.00	240.45	20.88	5,021.47
1999	17,040.81	47.00	362.57	22.44	8,137.81
2000	70,731.12	47.00	1,504.92	23.24	34,977.13
2001	52,786.09	47.00	1,123.11	24.05	27,010.83
2002	397,464.40	47.00	8,456.71	24.87	210,309.77
2003	75,462.02	47.00	1,605.58	25.70	41,261.01
2004	56,313.50	47.00	1,198.16	26.54	31,797.32
2005	36,525.88	47.00	777.15	27.39	21,284.81

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *47* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2006	38,253.05	47.00	813.90	28.25	22,991.06
2007	108,196.33	47.00	2,302.06	29.12	67,033.72
2008	36,645.06	47.00	779.68	30.00	23,388.90
2009	58,606.84	47.00	1,246.96	30.89	38,513.16
2010	27,392.23	47.00	582.81	31.78	18,523.10
2011	70,781.47	47.00	1,505.99	32.69	49,226.17
2012	1,689,273.07	47.00	35,942.07	33.60	1,207,637.36
2014	375,750.83	47.00	7,994.72	35.45	283,391.24
2016	56,799.63	47.00	1,208.51	37.32	45,105.74
2018	20,414.61	47.00	434.35	39.22	17,036.67
2019	134,103.49	47.00	2,853.27	40.18	114,646.44
2020	45,555.44	47.00	969.27	41.14	39,878.78
2021	266,038.28	47.00	5,660.40	42.11	238,360.90
2022	121,944.26	47.00	2,594.57	43.08	111,777.27
2024	87,931.63	47.00	1,870.89	45.03	84,255.19
2025	237,539.53	47.00	5,054.05	46.02	232,566.92
2026	427,364.27	47.00	9,092.88	46.75	425,123.44
Total	12,222,470.45	43.80	228,953.19	19.62	4,492,538.05

Composite Average Remaining Life ... 19.62 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
364.00 Flow Measuring Devices

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *15* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1999	176,385.00	15.00	11,758.97	2.97	34,919.77
2012	40,821.83	15.00	2,721.45	6.09	16,572.91
2023	10,799.01	15.00	719.93	12.10	8,712.87
2024	9,612.38	15.00	640.82	13.03	8,352.80
Total	237,618.22	15.00	15,841.17	4.33	68,558.35

Composite Average Remaining Life ... 4.33 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
371.00 Pumping Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *30* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1964	123,714.28	0.00	0.00	0.00	0.00
1969	1,824.48	30.00	60.82	1.11	67.50
1972	60,840.93	30.00	2,028.03	2.11	4,276.70
1981	884,159.75	30.00	29,471.93	5.13	151,136.59
1999	893,423.90	30.00	29,780.73	12.09	360,147.67
2004	17,335.45	30.00	577.85	14.47	8,364.20
2005	38,798.00	30.00	1,293.26	14.99	19,380.33
2009	135,111.34	30.00	4,503.70	17.17	77,311.36
2010	163,449.79	30.00	5,448.31	17.75	96,707.22
2011	466,202.88	30.00	15,540.06	18.35	285,153.97
2013	2,872,618.00	30.00	95,753.73	19.60	1,877,083.32
2015	52,568.43	30.00	1,752.28	20.93	36,680.90
2016	282,877.29	30.00	9,429.22	21.63	203,962.27
2018	301,478.47	30.00	10,049.26	23.09	232,049.36
2019	49,268.16	30.00	1,642.27	23.86	39,182.06
2023	20,940.17	30.00	698.00	27.19	18,976.56
2024	310,141.87	30.00	10,338.04	28.09	290,395.66
2025	5,480.38	30.00	182.68	29.03	5,302.62
2026	126,952.89	30.00	4,231.75	29.75	125,902.93
Total	6,807,186.46	28.42	222,781.94	17.20	3,832,081.19

Composite Average Remaining Life ... 17.20 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
380.00 Treatment Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1966	213,635.97	35.00	6,103.88	2.60	15,892.00
1982	7,725,812.23	35.00	220,737.48	6.92	1,526,809.89
1991	233,282.30	35.00	6,665.21	10.06	67,036.99
1992	47,180.60	35.00	1,348.02	10.46	14,101.39
1993	2,248,806.62	35.00	64,251.61	10.88	698,860.90
1998	544,670.39	35.00	15,562.01	13.18	205,032.50
2000	562,184.45	35.00	16,062.41	14.21	228,234.34
2011	915,917.18	35.00	26,169.06	21.34	558,330.40
2014	3,865,333.08	35.00	110,438.08	23.74	2,622,322.06
2016	33,546.66	35.00	958.48	25.46	24,400.35
2018	20,102.13	35.00	574.35	27.25	15,651.87
2019	7,243,570.50	35.00	206,959.14	28.18	5,831,200.57
2020	212,077.51	35.00	6,059.36	29.12	176,423.00
2021	198,436.04	35.00	5,669.60	30.07	170,488.55
2022	350,543.67	35.00	10,015.53	31.04	310,867.15
2023	29,624.43	35.00	846.41	32.02	27,099.61
2024	621,499.51	35.00	17,757.13	33.01	586,083.28
2025	240,369.14	35.00	6,867.69	34.00	233,506.83
2026	327,424.13	35.00	9,354.97	34.75	325,085.11
Total	25,634,016.54	35.00	732,400.42	18.62	13,637,426.78

Composite Average Remaining Life ... 18.62 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
382.00 Outfall Sewer Lines

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1965	73,525.14	50.00	1,470.50	5.99	8,803.60
Total	73,525.14	50.00	1,470.50	5.99	8,803.60

Composite Average Remaining Life ... 5.99 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
389.10 Other Plant - Intangibles
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2026	445,666.70	20.00	22,283.34	19.75	440,095.88
Total	445,666.70	20.00	22,283.34	19.75	440,095.88

Composite Average Remaining Life ... 19.75 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
391.00 Transportation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *14* ***Survivor Curve:*** *L4*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2011	119,487.15	14.00	8,534.60	2.64	22,527.01
2014	13,147.84	14.00	939.11	3.35	3,146.93
2017	21,007.05	14.00	1,500.47	5.36	8,044.20
2018	31,168.11	14.00	2,226.24	6.20	13,798.79
2019	27,488.89	14.00	1,963.45	7.09	13,919.73
2020	28,863.43	14.00	2,061.63	8.03	16,553.74
2022	75,954.78	14.00	5,425.22	10.00	54,254.95
2023	68,311.66	14.00	4,879.29	11.00	53,673.78
2024	189,347.17	14.00	13,524.49	12.00	162,298.19
2025	99,173.31	14.00	7,083.65	13.00	92,089.66
Total	673,949.39	14.00	48,138.15	9.15	440,306.98

Composite Average Remaining Life ... 9.15 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
395.00 Power Operated Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *22* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1993	18,154.62	22.00	825.20	2.19	1,807.10
1997	39,291.32	22.00	1,785.94	3.38	6,037.29
2000	14,790.15	22.00	672.27	4.40	2,961.16
2001	2,322.53	22.00	105.57	4.79	505.52
2004	4,697.67	22.00	213.53	6.09	1,300.97
2011	22,500.91	22.00	1,022.75	10.07	10,294.86
2012	17,502.58	22.00	795.56	10.73	8,537.88
2015	35,730.49	22.00	1,624.08	12.86	20,887.39
2018	25,218.04	22.00	1,146.25	15.16	17,382.31
2019	7,634.66	22.00	347.02	15.97	5,540.91
2021	452,466.57	22.00	20,566.29	17.62	362,387.47
2023	11,478.29	22.00	521.73	19.33	10,086.68
Total	651,787.83	22.00	29,626.19	15.11	447,729.55

Composite Average Remaining Life ... 15.11 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.20 Structures - Collection

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *45* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2017	978,689.65	45.00	21,748.65	36.28	789,011.29
2018	1,919,016.11	45.00	42,644.78	37.23	1,587,620.54
2019	1,206,973.68	45.00	26,821.62	38.18	1,024,179.67
2020	173,289.36	45.00	3,850.87	39.15	150,748.91
2021	221,520.46	45.00	4,922.67	40.11	197,461.50
2022	2,201,394.21	45.00	48,919.85	41.08	2,009,769.66
2023	7,940,130.09	45.00	176,447.25	42.06	7,420,857.19
2024	29,592,499.04	45.00	657,610.78	43.04	28,300,423.53
2025	1,427,850.43	45.00	31,729.99	44.02	1,396,634.17
2026	149,872.80	45.00	3,330.51	44.75	149,052.12
Total	45,811,235.83	45.00	1,018,026.98	42.26	43,025,758.59

Composite Average Remaining Life ... 42.26 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.30 Structures - SPP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1960	2,307,540.06	55.00	41,955.24	17.10	717,313.39
1968	671,326.79	55.00	12,205.93	20.54	250,694.86
1970	60,405.27	55.00	1,098.28	21.42	23,528.11
1972	430,021.03	55.00	7,818.56	22.32	174,487.42
1990	89,924.53	55.00	1,634.99	30.95	50,596.50
1995	131,932.60	55.00	2,398.77	33.58	80,556.35
1996	344,568.73	55.00	6,264.88	34.12	213,787.56
2000	105,072.37	55.00	1,910.41	36.36	69,462.27
2004	244,354.55	55.00	4,442.81	38.70	171,952.72
2005	52,725.90	55.00	958.65	39.31	37,683.86
2006	2,611,533.23	55.00	47,482.39	39.92	1,895,648.00
2011	7,145.91	55.00	129.93	43.13	5,604.24
2012	7,147.63	55.00	129.96	43.81	5,693.20
2013	148,319.26	55.00	2,696.71	44.49	119,984.16
2014	10,489,746.72	55.00	190,722.54	45.19	8,619,159.28
2015	40,952.90	55.00	744.60	45.90	34,180.65
2017	762,725.81	55.00	13,867.73	47.37	656,966.91
2018	1,526,953.41	55.00	27,762.77	48.13	1,336,201.12
2019	446,541.64	55.00	8,118.93	48.91	397,062.85
2020	2,544,665.64	55.00	46,266.62	49.70	2,299,504.85
2021	237,091.40	55.00	4,310.75	50.52	217,766.18
2023	2,377,007.71	55.00	43,218.29	52.22	2,256,789.49
2024	193,229.75	55.00	3,513.27	53.11	186,575.28
2025	11,393.77	55.00	207.16	54.03	11,193.10

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.30 Structures - SPP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	25,842,326.61	55.00	469,860.16	42.21	19,832,392.36

Composite Average Remaining Life ... 42.21 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1960	10,599,624.45	55.00	192,720.31	17.10	3,294,960.14
1972	12,693,053.48	55.00	230,782.63	22.32	5,150,394.88
1975	17,981,926.22	55.00	326,943.89	23.68	7,741,806.19
1985	1,204,742.75	55.00	21,904.40	28.43	622,690.65
1993	12,736.38	55.00	231.57	32.51	7,528.83
1994	101,865.06	55.00	1,852.09	33.04	61,201.41
1995	8,797,962.75	55.00	159,962.85	33.58	5,371,923.26
1996	2,958,647.48	55.00	53,793.55	34.12	1,835,691.90
1999	75,887.27	55.00	1,379.77	35.79	49,384.17
2001	236,542.84	55.00	4,300.78	36.94	158,849.26
2003	1,461,646.93	55.00	26,575.38	38.11	1,012,682.43
2004	367,499.67	55.00	6,681.81	38.70	258,610.16
2006	131,140.18	55.00	2,384.37	39.92	95,191.44
2007	18,890.83	55.00	343.47	40.54	13,925.74
2008	402,043.27	55.00	7,309.87	41.18	300,997.35
2009	16,621.70	55.00	302.21	41.82	12,638.22
2010	12,094,530.43	55.00	219,900.40	42.47	9,339,448.66
2011	393,025.03	55.00	7,145.90	43.13	308,232.96
2012	282,267.24	55.00	5,132.13	43.81	224,830.30
2013	8,325.00	55.00	151.36	44.49	6,734.58
2014	16,814,574.82	55.00	305,719.33	45.19	13,816,110.39
2015	5,371,118.78	55.00	97,656.64	45.90	4,482,914.16
2016	19,818,007.39	55.00	360,327.16	46.63	16,802,690.85
2017	3,090,389.28	55.00	56,188.86	47.37	2,661,878.58
2018	101,683.42	55.00	1,848.79	48.13	88,980.78
2019	265,878.40	55.00	4,834.15	48.91	236,417.90
2020	1,060,026.32	55.00	19,273.19	49.70	957,900.18

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2021	16,913,734.53	55.00	307,522.23	50.52	15,535,103.46
2022	975,108.52	55.00	17,729.23	51.36	910,489.63
2023	37,310.78	55.00	678.38	52.22	35,423.77
2024	30,884.14	55.00	561.53	53.11	29,820.55
2025	2,525,732.72	55.00	45,922.38	54.03	2,481,249.63
Total	136,843,428.06	55.00	2,488,060.60	37.74	93,906,702.38

Composite Average Remaining Life ... 37.74 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.70 Structures - General

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2025	484,749.65	35.00	13,849.99	34.00	470,921.23
2026	96,151.66	35.00	2,747.19	34.75	95,464.69
Total	580,901.31	35.00	16,597.18	34.13	566,385.92

Composite Average Remaining Life ... 34.13 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
355.00 Power Generation Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1991	21,067.56	35.00	601.93	12.58	7,571.90
2002	19,740.16	35.00	564.00	17.74	10,006.56
2004	38,295.54	35.00	1,094.16	18.81	20,583.17
2012	403,177.35	35.00	11,519.32	23.63	272,250.52
2015	426,122.43	35.00	12,174.89	25.71	313,038.45
2020	22,037.01	35.00	629.63	29.57	18,620.72
2021	1,986.71	35.00	56.76	30.41	1,726.37
2024	2,289,043.09	35.00	65,401.05	33.08	2,163,452.13
2025	911,327.11	35.00	26,037.85	34.02	885,894.21
Total	4,132,796.96	35.00	118,079.59	31.28	3,693,144.04

Composite Average Remaining Life ... 31.28 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
360.10 Collection Sewers - Force Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 75 *Survivor Curve:* R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1955	1,723.96	75.00	22.99	17.11	393.31
1960	16,628.35	75.00	221.71	19.87	4,405.24
1972	229,941.50	75.00	3,065.89	27.63	84,703.13
1989	4,559.85	75.00	60.80	40.76	2,478.15
1995	331,943.06	75.00	4,425.91	45.87	203,027.39
1996	179,711.97	75.00	2,396.16	46.75	112,009.13
2004	32,001.90	75.00	426.69	53.93	23,011.30
2015	1,167,492.55	75.00	15,566.57	64.28	1,000,641.12
2018	135,609.28	75.00	1,808.12	67.18	121,463.92
2019	37,065.08	75.00	494.20	68.15	33,678.68
2020	831,693.39	75.00	11,089.24	69.12	766,492.43
2021	671,057.48	75.00	8,947.43	70.10	627,171.13
2022	4,423,907.61	75.00	58,985.43	71.07	4,192,256.59
2023	6,483,158.15	75.00	86,442.11	72.05	6,228,306.88
2024	2,966,901.55	75.00	39,558.69	73.03	2,889,072.23
2025	379,722.63	75.00	5,062.97	74.02	374,739.23
2026	445,382.35	75.00	5,938.43	74.75	443,920.69
Total	18,338,500.66	75.00	244,513.33	69.97	17,107,770.54

Composite Average Remaining Life ... 69.97 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 *Survivor Curve:* R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1938	830,561.02	80.00	10,382.01	15.79	163,948.05
1945	209,289.99	80.00	2,616.12	18.66	48,825.29
1950	874,467.55	80.00	10,930.84	21.04	229,975.30
1955	16,911,738.35	80.00	211,396.58	23.68	5,006,227.81
1959	55,932,742.64	80.00	699,158.79	25.98	18,162,829.44
1960	1,041,337.25	80.00	13,016.71	26.57	345,911.05
1962	11,497,602.29	80.00	143,719.93	27.80	3,995,473.27
1963	27,050,424.53	80.00	338,130.07	28.42	9,611,005.23
1965	637,057.30	80.00	7,963.21	29.70	236,514.57
1968	1,803,375.51	80.00	22,542.18	31.67	713,937.36
1970	750,435.53	80.00	9,380.44	33.03	309,821.03
1972	15,282,310.53	80.00	191,028.75	34.41	6,573,924.80
1973	516,617.72	80.00	6,457.72	35.12	226,767.49
1974	456,497.65	80.00	5,706.22	35.82	204,423.86
1975	2,129,620.96	80.00	26,620.24	36.54	972,710.22
1976	35,420,494.20	80.00	442,755.87	37.26	16,498,019.20
1977	313,602.19	80.00	3,920.02	37.99	148,941.14
1978	817,918.21	80.00	10,223.97	38.73	395,981.13
1979	863,351.27	80.00	10,791.88	39.47	425,981.75
1980	1,405,922.57	80.00	17,574.02	40.22	706,881.84
1981	663,024.98	80.00	8,287.81	40.98	339,618.59
1982	495,204.32	80.00	6,190.05	41.74	258,365.57
1983	364,763.64	80.00	4,559.54	42.51	193,804.68
1984	635,581.74	80.00	7,944.77	43.28	343,828.56
1985	1,569,722.38	80.00	19,621.52	44.06	864,507.34
1986	739,019.73	80.00	9,237.74	44.84	414,252.88
1987	685,857.56	80.00	8,573.21	45.63	391,224.03

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *80* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1988	274,996.83	80.00	3,437.46	46.43	159,604.61
1989	24,414,968.71	80.00	305,186.90	47.23	14,414,759.88
1990	2,838,192.47	80.00	35,477.38	48.04	1,704,308.12
1991	1,099,801.91	80.00	13,747.51	48.85	671,581.19
1992	2,100,462.25	80.00	26,255.76	49.67	1,304,069.82
1993	357,693.93	80.00	4,471.17	50.49	225,764.37
1994	940,964.93	80.00	11,762.05	51.32	603,641.97
1995	2,274,642.99	80.00	28,433.02	52.15	1,482,887.27
1996	3,455,645.24	80.00	43,195.54	52.99	2,289,071.69
1997	220,280.02	80.00	2,753.50	53.84	148,237.99
1998	1,442,588.21	80.00	18,032.34	54.68	986,076.16
1999	9,402,942.66	80.00	117,536.70	55.54	6,527,490.70
2000	300,740.85	80.00	3,759.26	56.39	211,992.71
2001	543,162.58	80.00	6,789.53	57.26	388,740.53
2002	156,821.04	80.00	1,960.26	58.12	113,933.88
2003	19,507.62	80.00	243.85	58.99	14,384.85
2004	1,783,494.75	80.00	22,293.67	59.87	1,334,629.26
2005	1,336,211.08	80.00	16,702.63	60.75	1,014,627.68
2006	1,123,230.86	80.00	14,040.38	61.63	865,299.06
2007	4,880,294.97	80.00	61,003.64	62.52	3,813,695.20
2008	2,338,800.25	80.00	29,234.98	63.41	1,853,675.38
2009	9,130,773.66	80.00	114,134.59	64.30	7,339,121.91
2010	3,734,506.60	80.00	46,681.30	65.20	3,043,641.19
2011	3,661,088.26	80.00	45,763.57	66.10	3,025,061.48
2012	259,542.90	80.00	3,244.28	67.01	217,393.90
2013	436,202.05	80.00	5,452.52	67.92	370,319.26
2014	1,121,179.57	80.00	14,014.73	68.83	964,619.96

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.10 Collection Sewers - Gravity Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *80* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2015	16,171.16	80.00	202.14	69.74	14,098.00
2016	12,842,596.99	80.00	160,532.35	70.66	11,343,526.30
2017	6,868,439.71	80.00	85,855.44	71.58	6,145,936.18
2018	3,791,548.60	80.00	47,394.32	72.51	3,436,512.75
2019	37,902,547.70	80.00	473,781.51	73.44	34,792,575.22
2020	26,281,035.44	80.00	328,512.71	74.37	24,430,389.77
2021	11,227,901.33	80.00	140,348.67	75.30	10,568,160.89
2022	11,295,734.80	80.00	141,196.59	76.23	10,764,046.72
2023	44,284,062.78	80.00	553,550.40	77.17	42,718,590.03
2024	15,014,785.35	80.00	187,684.69	78.11	14,660,398.31
2025	4,399,150.03	80.00	54,989.34	79.06	4,347,202.72
2026	2,523,557.33	80.00	31,544.44	79.76	2,516,105.69
Total	435,994,810.02	80.00	5,449,931.31	52.96	288,609,874.10

Composite Average Remaining Life ... 52.96 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1918	189,918.09	0.00	0.00	0.00	0.00
1938	261,534.17	50.00	5,230.68	2.27	11,855.13
1945	40,518.07	50.00	810.36	3.71	3,006.12
1950	100,074.45	50.00	2,001.49	4.83	9,674.95
1955	82,726.66	50.00	1,654.53	6.05	10,011.31
1959	10,494,376.01	50.00	209,887.53	7.10	1,490,864.27
1960	124,555.30	50.00	2,491.11	7.38	18,380.86
1963	1,812,629.12	50.00	36,252.58	8.24	298,638.94
1965	115,635.29	50.00	2,312.71	8.84	20,444.37
1968	62,038.28	50.00	1,240.77	9.79	12,150.31
1970	131,321.85	50.00	2,626.44	10.46	27,481.75
1972	1,404,731.78	50.00	28,094.64	11.17	313,700.07
1973	300,190.76	50.00	6,003.82	11.53	69,221.35
1974	144,987.82	50.00	2,899.76	11.90	34,513.20
1975	428,436.23	50.00	8,568.73	12.28	105,256.59
1976	1,215,479.78	50.00	24,309.60	12.68	308,125.00
1977	135,560.41	50.00	2,711.21	13.08	35,452.17
1978	364,965.93	50.00	7,299.32	13.49	98,449.83
1979	376,125.77	50.00	7,522.52	13.91	104,635.02
1980	344,412.54	50.00	6,888.25	14.34	98,795.99
1981	303,688.95	50.00	6,073.78	14.79	89,814.53
1982	241,057.69	50.00	4,821.15	15.24	73,492.32
1983	167,114.66	50.00	3,342.29	15.71	52,515.79
1984	193,060.10	50.00	3,861.20	16.19	62,528.42
1985	425,192.73	50.00	8,503.86	16.69	141,918.69
1986	362,216.26	50.00	7,244.33	17.20	124,581.38
1987	250,909.37	50.00	5,018.19	17.72	88,919.89

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1988	96,370.85	50.00	1,927.42	18.26	35,187.82
1989	1,479,781.40	50.00	29,595.63	18.81	556,645.13
1990	1,029,249.93	50.00	20,585.00	19.38	398,847.38
1991	480,472.42	50.00	9,609.45	19.96	191,792.24
1992	446,600.62	50.00	8,932.01	20.56	183,624.37
1993	106,797.45	50.00	2,135.95	21.17	45,226.35
1994	172,835.40	50.00	3,456.71	21.81	75,379.52
1995	493,533.25	50.00	9,870.67	22.46	221,664.25
1996	766,509.25	50.00	15,330.19	23.12	354,504.30
1997	99,505.36	50.00	1,990.11	23.81	47,384.77
1998	667,520.45	50.00	13,350.41	24.51	327,269.01
1999	377,678.17	50.00	7,553.56	25.24	190,618.73
2001	40,259.96	50.00	805.20	26.73	21,526.34
2004	391,007.58	50.00	7,820.15	29.12	227,710.99
2005	622,643.87	50.00	12,452.88	29.95	372,949.07
2006	485,358.57	50.00	9,707.17	30.80	298,945.39
2007	261,467.05	50.00	5,229.34	31.66	165,563.57
2008	302,648.38	50.00	6,052.97	32.54	196,967.72
2010	100,529.53	50.00	2,010.59	34.35	69,055.95
2011	258,377.89	50.00	5,167.56	35.27	182,257.57
2012	100,204.33	50.00	2,004.09	36.21	72,559.10
2013	16,187.81	50.00	323.76	37.15	12,028.51
2014	101,869.73	50.00	2,037.39	38.11	77,646.55
2016	19,978.82	50.00	399.58	40.05	16,003.90
2019	46,757.47	50.00	935.15	43.01	40,222.06
2020	883,018.67	50.00	17,660.37	44.01	777,158.80
2021	904,384.36	50.00	18,087.69	45.00	813,992.76

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	2,203,270.79	50.00	44,065.42	46.00	2,027,051.16
2023	4,897,474.91	50.00	97,949.50	47.00	4,603,651.99
2024	4,306,744.15	50.00	86,134.89	48.00	4,134,477.62
2025	3,606,835.96	50.00	72,136.72	49.00	3,534,699.66
2026	363,103.51	50.00	7,262.07	49.75	361,287.97
Total	46,202,435.96	49.15	920,250.42	26.45	24,338,328.82

Composite Average Remaining Life ... 26.45 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1938	76,616.59	0.00	0.00	0.00	0.00
1945	17,164.93	0.00	0.00	0.00	0.00
1950	47,257.01	47.00	1,005.47	0.89	897.04
1955	42,660.23	47.00	907.67	2.05	1,865.19
1960	68,935.11	47.00	1,466.71	3.32	4,867.38
1965	72,940.33	47.00	1,551.93	4.62	7,166.21
1970	101,520.98	47.00	2,160.03	6.03	13,024.89
1972	554,714.71	47.00	11,802.47	6.68	78,804.74
1973	112,239.24	47.00	2,388.07	7.02	16,772.25
1974	134,579.72	47.00	2,863.41	7.39	21,150.49
1975	321,584.50	47.00	6,842.24	7.77	53,146.30
1977	103,930.93	47.00	2,211.30	8.59	18,988.08
1978	274,245.12	47.00	5,835.02	9.03	52,666.47
1979	293,381.70	47.00	6,242.18	9.49	59,207.54
1980	259,895.36	47.00	5,529.70	9.96	55,100.27
1981	229,688.47	47.00	4,887.00	10.46	51,137.49
1982	186,261.51	47.00	3,963.02	10.98	43,528.44
1983	130,342.56	47.00	2,773.25	11.53	31,963.73
1984	155,082.09	47.00	3,299.63	12.09	39,877.01
1985	319,524.19	47.00	6,798.40	12.66	86,094.60
1986	291,115.81	47.00	6,193.97	13.26	82,138.88
1987	202,235.98	47.00	4,302.90	13.88	59,708.02
1988	69,614.03	47.00	1,481.15	14.51	21,489.54
1989	738,012.93	47.00	15,702.44	15.16	238,014.21
1990	823,511.80	47.00	17,521.57	15.82	277,243.18
1991	389,292.92	47.00	8,282.85	16.51	136,717.47
1992	526,941.07	47.00	11,211.54	17.20	192,859.44

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1994	65,806.31	47.00	1,400.14	18.64	26,092.15
1995	99,511.37	47.00	2,117.27	19.37	41,016.10
1996	263,604.24	47.00	5,608.61	20.12	112,854.63
1997	86,566.61	47.00	1,841.85	20.88	38,464.16
1998	569,975.56	47.00	12,127.17	21.66	262,641.17
1999	164,439.65	47.00	3,498.72	22.44	78,527.91
2000	12,020.36	47.00	255.75	23.24	5,944.17
2004	187,594.21	47.00	3,991.38	26.54	105,924.74
2005	500,514.32	47.00	10,649.27	27.39	291,665.91
2006	404,791.84	47.00	8,612.61	28.25	243,290.28
2007	228,197.39	47.00	4,855.28	29.12	141,381.12
2008	64,791.58	47.00	1,378.55	30.00	41,353.56
2009	79,394.84	47.00	1,689.26	30.89	52,173.88
2011	170,657.79	47.00	3,631.03	32.69	118,686.86
2012	79,794.79	47.00	1,697.77	33.60	57,044.16
2013	16,068.50	47.00	341.88	34.52	11,801.77
2014	58,373.42	47.00	1,241.99	35.45	44,025.23
2016	134,300.59	47.00	2,857.47	37.32	106,650.82
2017	192,243.38	47.00	4,090.29	38.27	156,537.41
2018	201,939.17	47.00	4,296.59	39.22	168,524.90
2019	302,286.40	47.00	6,431.64	40.18	258,427.72
2020	1,410,345.50	47.00	30,007.43	41.14	1,234,602.60
2021	1,065,301.66	47.00	22,666.05	42.11	954,472.65
2022	1,077,472.67	47.00	22,925.01	43.08	987,639.35
2023	1,319,188.54	47.00	28,067.91	44.06	1,236,577.65
2024	2,094,346.98	47.00	44,560.69	45.03	2,006,781.96
2025	2,591,908.63	47.00	55,147.13	46.02	2,537,650.13

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *47* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2026	866,689.04	47.00	18,440.24	46.75	862,144.66
Total	20,851,415.16	45.29	441,652.89	31.31	13,827,326.52

Composite Average Remaining Life ... 31.31 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
364.00 Flow Measuring Devices

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *15* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1960	34,668.83	0.00	0.00	0.00	0.00
1996	10,667.26	15.00	711.15	2.35	1,672.91
1998	11,518.92	15.00	767.93	2.76	2,118.86
2008	91,182.72	15.00	6,078.83	5.12	31,138.66
2010	110,716.42	15.00	7,381.08	5.61	41,402.41
2011	38,771.91	15.00	2,584.79	5.85	15,115.60
2013	175,978.36	15.00	11,731.86	6.34	74,416.63
2015	40,642.36	15.00	2,709.48	6.93	18,778.24
2016	442,654.44	15.00	29,510.22	7.29	215,270.88
2017	160,544.63	15.00	10,702.95	7.73	82,723.39
2018	43,907.33	15.00	2,927.15	8.25	24,145.09
2019	859,930.78	15.00	57,328.57	8.86	508,159.55
2020	72,459.17	15.00	4,830.60	9.58	46,266.05
2022	98,651.86	15.00	6,576.77	11.21	73,752.26
2023	407,174.77	15.00	27,144.92	12.10	328,517.27
2024	8,460.60	15.00	564.04	13.03	7,351.94
Total	2,607,930.36	14.06	171,550.33	8.57	1,470,829.76

Composite Average Remaining Life ... 8.57 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
371.00 Pumping Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *30* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1991	10,027.80	30.00	334.26	8.76	2,927.51
1996	856,360.73	30.00	28,545.30	10.78	307,817.93
1997	12,226.37	30.00	407.54	11.21	4,569.12
2001	71,769.06	30.00	2,392.30	13.01	31,132.28
2002	52,690.66	30.00	1,756.35	13.49	23,691.72
2004	389,243.47	30.00	12,974.76	14.47	187,806.42
2005	8,668.00	30.00	288.93	14.99	4,329.83
2006	398,382.04	30.00	13,279.37	15.51	205,953.45
2007	12,859.49	30.00	428.65	16.05	6,878.71
2008	17,742.79	30.00	591.43	16.60	9,817.26
2009	461,050.47	30.00	15,368.32	17.17	263,815.29
2010	698,004.66	30.00	23,266.77	17.75	412,983.64
2011	127,953.09	30.00	4,265.09	18.35	78,262.78
2012	1,566,147.49	30.00	52,204.81	18.97	990,148.25
2013	412,015.32	30.00	13,733.82	19.60	269,227.26
2014	92,372.97	30.00	3,079.09	20.26	62,377.03
2015	3,927,144.55	30.00	130,904.54	20.93	2,740,260.27
2016	1,197,536.65	30.00	39,917.80	21.63	863,456.71
2017	84,978.93	30.00	2,832.63	22.35	63,307.95
2018	1,328,557.83	30.00	44,285.17	23.09	1,022,597.06
2019	443,360.52	30.00	14,778.65	23.86	352,596.42
2020	1,326,944.91	30.00	44,231.40	24.65	1,090,296.44
2021	319,888.96	30.00	10,662.94	25.47	271,554.54
2022	640,066.64	30.00	21,335.51	26.31	561,409.40
2023	2,436,296.47	30.00	81,209.71	27.19	2,207,839.03
2024	622,498.07	30.00	20,749.89	28.09	582,864.67
2025	1,134,075.44	30.00	37,802.44	29.03	1,097,290.32

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
371.00 Pumping Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 30 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2026	98,397.27	30.00	3,279.90	29.75	97,583.48
Total	18,747,260.65	30.00	624,907.38	22.10	13,812,794.74

Composite Average Remaining Life ... 22.10 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
380.00 Treatment Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1960	260,606.75	35.00	7,445.91	1.12	8,342.87
1968	465,692.81	35.00	13,305.51	3.11	41,347.21
1975	14,848,934.14	35.00	424,255.23	4.91	2,083,466.86
1987	1,460,340.34	35.00	41,724.01	8.56	357,277.35
1988	439,507.72	35.00	12,557.36	8.92	112,019.96
1990	25,892.61	35.00	739.79	9.67	7,151.59
1994	141,124.62	35.00	4,032.13	11.31	45,590.02
1995	5,087,628.21	35.00	145,360.80	11.75	1,708,017.63
1996	35,060.20	35.00	1,001.72	12.21	12,230.28
1997	1,939.99	35.00	55.43	12.68	703.06
1999	1,059,178.42	35.00	30,262.24	13.68	414,088.94
2001	1,632,563.30	35.00	46,644.66	14.75	688,170.36
2002	197,050.46	35.00	5,630.01	15.32	86,226.71
2003	90,863.40	35.00	2,596.10	15.90	41,275.15
2004	3,930,521.58	35.00	112,300.61	16.50	1,853,253.48
2006	11,493.78	35.00	328.39	17.77	5,836.57
2007	293,993.33	35.00	8,399.81	18.44	154,899.48
2008	1,125,032.45	35.00	32,143.78	19.13	614,934.94
2009	55,295.02	35.00	1,579.86	19.84	31,346.99
2010	24,184.39	35.00	690.98	20.58	14,218.52
2012	120,552.85	35.00	3,444.37	22.12	76,176.86
2013	49,210.92	35.00	1,406.03	22.92	32,225.49
2014	29,066.88	35.00	830.48	23.74	19,719.57
2015	11,561,638.46	35.00	330,332.50	24.59	8,123,316.98
2016	4,103,563.72	35.00	117,244.67	25.46	2,984,749.36
2017	2,376,529.46	35.00	67,900.84	26.35	1,788,858.09
2018	1,075,375.13	35.00	30,725.00	27.25	837,306.01

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
380.00 Treatment Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2019	167,383.81	35.00	4,782.39	28.18	134,746.89
2020	9,821,269.17	35.00	280,607.67	29.12	8,170,115.38
2021	2,378,818.71	35.00	67,966.24	30.07	2,043,788.81
2022	15,609,329.18	35.00	445,980.80	31.04	13,842,576.91
2023	3,973,130.94	35.00	113,518.02	32.02	3,634,509.77
2024	841,201.19	35.00	24,034.32	33.01	793,265.22
2025	2,761,699.73	35.00	78,905.70	34.00	2,682,855.80
2026	404,489.00	35.00	11,556.83	34.75	401,599.46
Total	86,460,162.67	35.00	2,470,290.19	21.80	53,846,208.60

Composite Average Remaining Life ... 21.80 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
381.00 Plant Sewers

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1995	874,635.54	50.00	17,492.70	22.10	386,644.32
1999	17,293.00	50.00	345.86	25.26	8,735.33
2002	27,056.54	50.00	541.13	27.73	15,006.13
2003	603,123.96	50.00	12,062.47	28.58	344,689.63
2004	48,787.57	50.00	975.75	29.43	28,715.44
2016	5,448.80	50.00	108.98	40.31	4,392.78
Total	1,576,345.41	50.00	31,526.89	25.00	788,183.63

Composite Average Remaining Life ... 25.00 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
382.00 Outfall Sewer Lines

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2017	12,867.84	50.00	257.36	41.26	10,618.49
2018	174,944.46	50.00	3,498.89	42.22	147,705.94
2023	311,592.01	50.00	6,231.84	47.06	293,244.45
Total	499,404.31	50.00	9,988.08	45.21	451,568.88

Composite Average Remaining Life ... 45.21 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
389.10 Other Plant - Intangibles

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2003	732.57	20.00	36.63	3.99	146.32
2013	4,140,223.53	20.00	207,011.19	8.60	1,779,935.92
2019	2,529.74	20.00	126.49	13.20	1,669.02
2020	6,201,677.71	20.00	310,083.91	14.11	4,374,718.21
2022	430,060.25	20.00	21,503.01	16.02	344,498.83
2024	38,327.02	20.00	1,916.35	18.00	34,496.32
Total	10,813,550.82	20.00	540,677.58	12.09	6,535,464.62

Composite Average Remaining Life ... 12.09 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
391.00 Transportation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *14* ***Survivor Curve:*** *L4*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1995	13,240.08	0.00	0.00	0.00	0.00
2003	25,581.36	14.00	1,827.20	1.17	2,136.42
2004	6,788.48	14.00	484.88	1.32	641.26
2006	99,532.58	14.00	7,109.31	1.67	11,884.79
2007	154,794.96	14.00	11,056.53	1.87	20,685.71
2008	150,540.49	14.00	10,752.65	2.09	22,419.74
2009	220,230.56	14.00	15,730.40	2.30	36,173.06
2010	253,581.52	14.00	18,112.56	2.49	45,113.99
2011	91,691.79	14.00	6,549.27	2.64	17,286.73
2012	283,568.72	14.00	20,254.45	2.78	56,331.42
2013	590,227.54	14.00	42,158.15	2.99	126,177.42
2014	555,945.44	14.00	39,709.49	3.35	133,065.12
2015	697,815.92	14.00	49,842.86	3.89	194,060.59
2016	185,576.14	14.00	13,255.14	4.58	60,759.11
2017	174,855.63	14.00	12,489.40	5.36	66,957.23
2018	1,449,339.70	14.00	103,521.92	6.20	641,653.51
2019	840,388.91	14.00	60,026.42	7.09	425,553.30
2021	89,577.43	14.00	6,398.24	9.01	57,619.81
2022	869,888.42	14.00	62,133.48	10.00	621,366.50
2023	2,612,625.59	14.00	186,611.88	11.00	2,052,789.94
2024	815,335.23	14.00	58,236.91	12.00	698,861.41
2025	244,677.74	14.00	17,476.59	13.00	227,201.15
2026	64,293.00	14.00	4,592.25	13.75	63,144.94
Total	10,490,097.23	13.39	748,329.97	7.46	5,581,883.14

Composite Average Remaining Life ... 7.46 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
395.00 Power Operated Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 22 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2007	13,810.00	22.00	627.72	7.64	4,795.33
2008	48,270.00	22.00	2,194.05	8.21	18,008.48
2009	246,063.00	22.00	11,184.48	8.80	98,455.10
2010	440,226.19	22.00	20,009.92	9.42	188,531.70
2011	45,902.54	22.00	2,086.44	10.07	21,001.83
2012	282,853.13	22.00	12,856.73	10.73	137,977.65
2013	157,521.76	22.00	7,159.95	11.42	81,774.54
2014	2,683.87	22.00	121.99	12.13	1,479.81
2015	7,815.84	22.00	355.26	12.86	4,569.00
2016	15,995.00	22.00	727.03	13.61	9,895.40
2017	29,847.33	22.00	1,356.67	14.38	19,506.87
2018	44,891.21	22.00	2,040.47	15.16	30,942.65
2020	9,692.97	22.00	440.58	16.79	7,395.70
2021	563,825.38	22.00	25,627.96	17.62	451,576.46
2023	271,216.17	22.00	12,327.79	19.33	238,334.45
2024	129,069.73	22.00	5,866.70	20.21	118,566.38
Total	2,309,684.12	22.00	104,983.75	13.65	1,432,811.35

Composite Average Remaining Life ... 13.65 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
354.20 Structures - Collection

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *45* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1998	179,114.78	45.00	3,980.33	19.82	78,876.84
2015	20,723.35	45.00	460.52	34.40	15,840.20
2026	4,999.50	45.00	111.10	44.75	4,972.12
Total	204,837.63	45.00	4,551.95	21.90	99,689.16

Composite Average Remaining Life ... 21.90 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
354.30 Structures - SPP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	6,131,131.15	55.00	111,475.03	51.36	5,724,830.82
Total	6,131,131.15	55.00	111,475.03	51.36	5,724,830.82

Composite Average Remaining Life ... 51.36 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1959	166,934.69	55.00	3,035.17	16.68	50,616.62
1972	189,956.32	55.00	3,453.75	22.32	77,077.60
1992	711,430.30	55.00	12,935.09	31.98	413,726.37
2015	420,063.69	55.00	7,637.52	45.90	350,599.11
2016	12,643.06	55.00	229.87	46.63	10,719.41
2017	6,064.56	55.00	110.26	47.37	5,223.65
2019	23,691.33	55.00	430.75	48.91	21,066.23
2020	30,932.25	55.00	562.40	49.70	27,952.14
Total	1,561,716.20	55.00	28,394.82	33.70	956,981.14

Composite Average Remaining Life ... 33.70 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
354.70 Structures - General

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1992	41,830.74	35.00	1,195.16	11.66	13,937.50
2026	3,000.00	35.00	85.71	34.75	2,978.57
Total	44,830.74	35.00	1,280.88	13.21	16,916.07

Composite Average Remaining Life ... 13.21 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
355.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	126,050.56	35.00	3,601.43	31.28	112,642.98
Total	126,050.56	35.00	3,601.43	31.28	112,642.98

Composite Average Remaining Life ... 31.28 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
360.10 Collection Sewers - Force Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	286,282.87	75.00	3,817.10	71.07	271,292.11
2026	2,999.32	75.00	39.99	74.75	2,989.48
Total	289,282.19	75.00	3,857.10	71.11	274,281.59

Composite Average Remaining Life ... *71.11 Years*

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
361.10 Collection Sewers - Gravity Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *80* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1950	1,372,465.48	80.00	17,155.81	21.04	360,943.25
1998	5,642,424.03	80.00	70,530.25	54.68	3,856,859.36
2015	2,275,826.00	80.00	28,447.81	69.74	1,984,062.79
2016	1,187,359.26	80.00	14,841.98	70.66	1,048,763.03
2017	225,296.02	80.00	2,816.20	71.58	201,596.73
2018	652,900.70	80.00	8,161.25	72.51	591,763.90
2019	126,115.97	80.00	1,576.45	73.44	115,767.93
2020	230,285.96	80.00	2,878.57	74.37	214,069.79
2022	113,811.39	80.00	1,422.64	76.23	108,454.31
2023	407,261.77	80.00	5,090.77	77.17	392,864.78
2026	17,000.00	80.00	212.50	79.76	16,949.80
Total	12,250,746.58	80.00	153,134.23	58.07	8,892,095.67

Composite Average Remaining Life ... *58.07 Years*

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1950	208,347.61	50.00	4,166.95	4.83	20,142.53
1998	21,535.87	50.00	430.72	24.51	10,558.51
2014	175,888.74	50.00	3,517.78	38.11	134,064.88
2026	14,400.00	50.00	288.00	49.75	14,328.00
Total	420,172.22	50.00	8,403.44	21.31	179,093.93

Composite Average Remaining Life ... 21.31 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *47* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2026	12,000.00	47.00	255.32	46.75	11,937.08
Total	12,000.00	47.00	255.32	46.75	11,937.08

Composite Average Remaining Life ... 46.75 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
364.00 Flow Measuring Devices

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *15* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1992	10,431.53	15.00	695.43	1.60	1,113.28
1996	7,328.14	15.00	488.54	2.35	1,149.25
2013	182,290.73	15.00	12,152.68	6.34	77,085.96
2014	129,463.37	15.00	8,630.87	6.62	57,123.30
2019	81,758.85	15.00	5,450.58	8.86	48,313.82
2020	46,933.08	15.00	3,128.86	9.58	29,967.34
2022	7,896.07	15.00	526.40	11.21	5,903.11
Total	466,101.77	15.00	31,073.37	7.10	220,656.06

Composite Average Remaining Life ... 7.10 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
370.00 Receiving Wells

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	181,962.65	50.00	3,639.25	46.08	167,697.66
Total	181,962.65	50.00	3,639.25	46.08	167,697.66

Composite Average Remaining Life ... 46.08 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
371.00 Pumping Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *30* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1972	25,595.17	30.00	853.17	2.11	1,799.16
2017	36,104.80	30.00	1,203.49	22.35	26,897.50
2021	73,180.23	30.00	2,439.34	25.47	62,122.88
2022	1,035,423.47	30.00	34,514.04	26.31	908,181.17
2023	7,785.78	30.00	259.53	27.19	7,055.69
2026	4,749.85	30.00	158.33	29.75	4,710.57
Total	1,182,839.30	30.00	39,427.89	25.64	1,010,766.97

Composite Average Remaining Life ... 25.64 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
380.00 Treatment Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1959	41,356.56	35.00	1,181.62	0.87	1,026.19
1972	34,945.44	35.00	998.44	4.12	4,113.49
1992	221,391.42	35.00	6,325.47	10.46	66,169.69
2015	245,066.89	35.00	7,001.91	24.59	172,186.32
2016	66,842.89	35.00	1,909.80	25.46	48,618.54
2017	170,961.67	35.00	4,884.62	26.35	128,686.04
2018	19,018.12	35.00	543.37	27.25	14,807.84
2019	34,131.43	35.00	975.18	28.18	27,476.40
2022	803,017.05	35.00	22,943.34	31.04	712,127.03
2026	12,249.99	35.00	350.00	34.75	12,162.48
Total	1,648,981.46	35.00	47,113.75	25.20	1,187,374.03

Composite Average Remaining Life ... 25.20 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
381.00 Plant Sewers

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1992	257,749.35	50.00	5,154.98	19.86	102,357.53
2004	217,164.26	50.00	4,343.28	29.43	127,818.78
2022	813,969.13	50.00	16,279.37	46.08	750,157.88
Total	1,288,882.74	50.00	25,777.64	38.03	980,334.18

Composite Average Remaining Life ... 38.03 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
382.00 Outfall Sewer Lines

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	2,828.25	50.00	56.56	46.08	2,606.53
Total	2,828.25	50.00	56.56	46.08	2,606.53

Composite Average Remaining Life ... 46.08 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
389.10 Other Plant - Intangibles

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2019	11,607.90	20.00	580.40	13.20	7,658.42
Total	11,607.90	20.00	580.40	13.20	7,658.42

Composite Average Remaining Life ... 13.20 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
391.00 Transportation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *14* ***Survivor Curve:*** *L4*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1989	5,537.12	0.00	0.00	0.00	0.00
2008	14,834.85	14.00	1,059.61	2.09	2,209.33
2015	16,013.29	14.00	1,143.78	3.89	4,453.25
2022	11,253.85	14.00	803.83	10.00	8,038.69
Total	47,639.11	10.50	3,007.22	4.89	14,701.27

Composite Average Remaining Life ... 4.89 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
395.00 Power Operated Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *22* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1990	1,424.51	22.00	64.75	1.35	87.13
Total	1,424.51	22.00	64.75	1.35	87.13

Composite Average Remaining Life ... 1.35 Years

PAWC - Water Operations
Water Operations
303.35 Waste Handling

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *100* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1991	70,430.00	100.00	704.30	65.87	46,389.26
1992	84,595.17	100.00	845.95	66.76	56,476.40
Total	155,025.17	100.00	1,550.25	66.35	102,865.66

Composite Average Remaining Life ... 66.35 Years

PAWC - Water Operations
Water Operations
304.15 Other Water Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1905	20,000.00	0.00	0.00	0.00	0.00
1962	3,046.99	50.00	60.94	12.08	736.02
1965	40,502.68	50.00	810.05	13.19	10,685.28
1966	20,825.96	50.00	416.52	13.57	5,651.38
1967	270.30	50.00	5.41	13.95	75.41
1968	13,568.76	50.00	271.37	14.33	3,889.57
1969	631.00	50.00	12.62	14.72	185.77
1970	1,609.62	50.00	32.19	15.11	486.49
1971	11,357.68	50.00	227.15	15.51	3,522.53
1972	19,891.30	50.00	397.83	15.91	6,328.05
1973	102.13	50.00	2.04	16.31	33.31
1974	11,058.14	50.00	221.16	16.72	3,697.34
1975	3,360.08	50.00	67.20	17.13	1,151.16
1977	2,198.00	50.00	43.96	17.97	789.88
1978	1,550.08	50.00	31.00	18.39	570.26
1979	66,916.71	50.00	1,338.33	18.83	25,195.15
1980	50,476.77	50.00	1,009.53	19.26	19,446.00
1981	175,270.37	50.00	3,505.40	19.70	69,071.47
1982	5,146.13	50.00	102.92	20.15	2,074.07
1983	23,321.00	50.00	466.42	20.60	9,610.57
1984	402.00	50.00	8.04	21.06	169.36
1985	61,463.99	50.00	1,229.28	21.53	26,465.51
1986	65,149.35	50.00	1,302.99	22.00	28,666.73
1987	194.55	50.00	3.89	22.48	87.46
1988	5,314.89	50.00	106.30	22.96	2,440.96
1989	105,571.50	50.00	2,111.43	23.46	49,523.59
1990	167,225.90	50.00	3,344.51	23.95	80,113.54

PAWC - Water Operations
Water Operations
304.15 Other Water Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1991	515,689.12	50.00	10,313.77	24.46	252,272.20
1992	303,462.34	50.00	6,069.24	24.97	151,569.23
1993	140,489.27	50.00	2,809.78	25.49	71,634.68
1994	1,280,944.74	50.00	25,618.87	26.02	666,710.62
1995	208,091.31	50.00	4,161.82	26.56	110,546.10
1996	372,613.59	50.00	7,452.26	27.11	202,017.86
1997	26,226.70	50.00	524.53	27.66	14,510.37
1998	254,653.48	50.00	5,093.06	28.23	143,764.90
1999	142,608.54	50.00	2,852.17	28.80	82,145.73
2000	129,853.55	50.00	2,597.07	29.38	76,313.23
2001	1,161.48	50.00	23.23	29.98	696.37
2002	707,111.64	50.00	14,142.22	30.58	432,482.21
2003	1,932,009.71	50.00	38,640.15	31.19	1,205,374.83
2004	254,159.61	50.00	5,083.19	31.82	161,745.34
2005	974,587.19	50.00	19,491.72	32.46	632,616.37
2006	499,272.53	50.00	9,985.44	33.10	330,549.12
2007	1,551,026.95	50.00	31,020.51	33.76	1,047,327.19
2008	1,232,651.52	50.00	24,653.00	34.43	848,898.44
2009	228,603.44	50.00	4,572.06	35.12	160,561.06
2010	11,303,442.33	50.00	226,068.61	35.81	8,096,576.17
2011	250,029.38	50.00	5,000.58	36.52	182,644.85
2012	328,899.24	50.00	6,577.98	37.25	245,018.61
2013	2,948,687.90	50.00	58,973.70	37.99	2,240,165.22
2014	1,358,349.72	50.00	27,166.97	38.74	1,052,384.28
2015	863,430.65	50.00	17,268.59	39.50	682,180.22
2016	1,876,787.12	50.00	37,535.70	40.29	1,512,146.98
2017	1,914,619.65	50.00	38,292.35	41.08	1,573,142.56

PAWC - Water Operations
Water Operations
304.15 Other Water Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: ***50*** ***Survivor Curve:*** ***S0.5***

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2018	17,474,447.65	50.00	349,488.58	41.90	14,641,842.06
2019	3,311,981.47	50.00	66,239.56	42.72	2,830,007.38
2020	5,258,970.84	50.00	105,179.30	43.57	4,582,572.62
2021	5,208,379.09	50.00	104,167.47	44.43	4,628,310.67
2022	14,305,441.54	50.00	286,108.53	45.31	12,963,911.67
2023	22,362,828.43	50.00	447,256.09	46.21	20,667,191.52
2024	12,035,825.08	50.00	240,716.24	47.13	11,343,793.49
2025	11,014,913.92	50.00	220,298.04	48.06	10,587,749.05
Total	123,448,676.60	49.19	2,468,570.90	42.44	104,772,040.04

Composite Average Remaining Life ... 42.44 Years

PAWC - Water Operations
Water Operations
304.21 Pumping Structures - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1962	15,878.73	75.00	211.72	31.36	6,640.08
1970	6,710.06	75.00	89.47	35.18	3,147.53
1990	1,277,952.17	75.00	17,039.37	46.18	786,811.45
1993	1,121,355.16	75.00	14,951.41	48.05	718,343.98
1994	88,730.90	75.00	1,183.08	48.68	57,595.27
1995	1,715,454.62	75.00	22,872.74	49.33	1,128,239.99
1997	4,494,042.69	75.00	59,920.59	50.64	3,034,544.87
1998	79,054.11	75.00	1,054.06	51.31	54,084.53
1999	4,650,691.72	75.00	62,009.25	51.99	3,223,896.55
2001	34,327.61	75.00	457.70	53.37	24,427.24
2003	2,358,291.93	75.00	31,443.90	54.79	1,722,698.50
2004	146,294.31	75.00	1,950.59	55.51	108,270.17
2005	11,236.00	75.00	149.81	56.24	8,425.36
2006	10,710.36	75.00	142.80	56.98	8,136.76
2007	29,310.29	75.00	390.80	57.73	22,559.60
2008	97,884.43	75.00	1,305.13	58.49	76,333.52
2012	23,869,584.52	75.00	318,261.25	61.62	19,612,280.78
2013	8,780,477.29	75.00	117,073.08	62.43	7,309,064.37
2014	3,788,366.02	75.00	50,511.57	63.25	3,195,092.71
2015	114,587.76	75.00	1,527.84	64.09	97,912.07
2017	3,006.40	75.00	40.09	65.78	2,636.92
2018	8,073.07	75.00	107.64	66.65	7,173.94
2019	130,266.72	75.00	1,736.89	67.52	117,278.41
2021	4,068,632.96	75.00	54,248.46	69.31	3,760,128.47
2023	1,168.86	75.00	15.58	71.15	1,108.91

PAWC - Water Operations
Water Operations
304.21 Pumping Structures - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	56,902,088.69	75.00	758,694.81	59.43	45,086,831.95

Composite Average Remaining Life ... 59.43 Years

PAWC - Water Operations
Water Operations
304.22 Pumping Structures - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1901	5,841.82	0.00	0.00	0.00	0.00
1904	1,656.55	0.00	0.00	0.00	0.00
1905	4,576.49	0.00	0.00	0.00	0.00
1906	5,412.26	0.00	0.00	0.00	0.00
1908	6,553.43	0.00	0.00	0.00	0.00
1909	7,477.68	0.00	0.00	0.00	0.00
1910	12,025.18	0.00	0.00	0.00	0.00
1911	14,042.67	0.00	0.00	0.00	0.00
1912	1,186.63	0.00	0.00	0.00	0.00
1915	1,030.51	0.00	0.00	0.00	0.00
1918	30,729.07	0.00	0.00	0.00	0.00
1919	3,285.16	0.00	0.00	0.00	0.00
1920	5,065.81	0.00	0.00	0.00	0.00
1921	589.43	0.00	0.00	0.00	0.00
1922	10,583.50	0.00	0.00	0.00	0.00
1923	7,456.73	0.00	0.00	0.00	0.00
1924	32,859.61	0.00	0.00	0.00	0.00
1925	142.50	0.00	0.00	0.00	0.00
1926	487.26	0.00	0.00	0.00	0.00
1927	863.05	0.00	0.00	0.00	0.00
1928	3,516.76	0.00	0.00	0.00	0.00
1929	12,727.23	0.00	0.00	0.00	0.00
1930	4,043.81	0.00	0.00	0.00	0.00
1931	7,583.10	0.00	0.00	0.00	0.00
1932	4,091.51	0.00	0.00	0.00	0.00
1933	31.03	0.00	0.00	0.00	0.00
1934	205.04	0.00	0.00	0.00	0.00

PAWC - Water Operations
Water Operations
304.22 Pumping Structures - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: **55** ***Survivor Curve:*** **R3**

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1935	2,181.02	55.00	39.65	0.50	19.83
1936	1,208.47	55.00	21.97	0.62	13.72
1937	934.92	55.00	17.00	0.84	14.26
1938	3,088.23	55.00	56.15	1.00	56.13
1939	2,936.64	55.00	53.39	1.21	64.71
1940	256.37	55.00	4.66	1.44	6.72
1941	426.22	55.00	7.75	1.68	13.01
1942	3,960.66	55.00	72.01	1.94	139.88
1943	65.66	55.00	1.19	2.17	2.59
1944	632.02	55.00	11.49	2.41	27.72
1945	1,391.94	55.00	25.31	2.66	67.35
1946	458.99	55.00	8.35	2.91	24.32
1947	9,849.69	55.00	179.09	3.17	567.85
1948	69,981.98	55.00	1,272.40	3.44	4,375.08
1949	2,182.09	55.00	39.67	3.69	146.37
1950	502.83	55.00	9.14	3.94	36.05
1951	30,036.64	55.00	546.12	4.20	2,292.67
1952	11,892.63	55.00	216.23	4.45	963.27
1953	28,685.21	55.00	521.55	4.72	2,462.84
1954	150,370.41	55.00	2,734.01	4.98	13,605.04
1955	122,038.47	55.00	2,218.88	5.23	11,614.33
1956	26,864.73	55.00	488.45	5.50	2,685.01
1957	15,965.08	55.00	290.27	5.77	1,673.46
1958	14,351.02	55.00	260.93	6.04	1,575.88
1959	28,185.43	55.00	512.46	6.33	3,241.58
1960	22,982.96	55.00	417.87	6.61	2,763.27
1961	77,621.92	55.00	1,411.31	6.91	9,752.81

PAWC - Water Operations
Water Operations
304.22 Pumping Structures - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: **55** ***Survivor Curve:*** **R3**

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1962	764.70	55.00	13.90	7.22	100.38
1963	49,553.58	55.00	900.97	7.54	6,794.27
1964	382,895.62	55.00	6,961.74	7.88	54,839.33
1965	28,459.92	55.00	517.45	8.22	4,255.59
1966	68,093.98	55.00	1,238.07	8.59	10,630.20
1967	97,629.18	55.00	1,775.08	8.96	15,911.23
1968	21,632.31	55.00	393.31	9.36	3,680.37
1969	115,270.36	55.00	2,095.82	9.77	20,470.58
1970	58,066.48	55.00	1,055.75	10.19	10,761.31
1971	131,023.64	55.00	2,382.25	10.64	25,339.97
1972	103,200.73	55.00	1,876.38	11.10	20,824.58
1973	58,897.24	55.00	1,070.86	11.58	12,397.21
1974	124,265.86	55.00	2,259.38	12.07	27,276.85
1975	103,208.46	55.00	1,876.52	12.58	23,612.63
1976	48,283.97	55.00	877.89	13.11	11,512.84
1977	31,616.36	55.00	574.84	13.66	7,853.48
1978	90,978.06	55.00	1,654.15	14.23	23,532.13
1979	66,769.29	55.00	1,213.99	14.81	17,974.77
1980	120,180.98	55.00	2,185.11	15.40	33,655.74
1981	248,439.56	55.00	4,517.08	16.01	72,324.33
1982	213,685.47	55.00	3,885.19	16.64	64,643.98
1983	147,087.28	55.00	2,674.31	17.28	46,212.44
1984	136,432.53	55.00	2,480.59	17.94	44,490.58
1985	953,727.67	55.00	17,340.50	18.60	322,606.16
1986	216,373.69	55.00	3,934.07	19.28	75,861.84
1987	1,117,433.37	55.00	20,316.97	19.98	405,905.72
1988	354,873.27	55.00	6,452.24	20.69	133,470.91

PAWC - Water Operations
Water Operations
304.22 Pumping Structures - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1989	819,879.51	55.00	14,906.90	21.40	319,080.73
1990	1,926,625.32	55.00	35,029.55	22.14	775,382.16
1991	294,397.18	55.00	5,352.68	22.88	122,448.97
1992	1,848,476.34	55.00	33,608.66	23.63	794,047.43
1993	1,463,314.62	55.00	26,605.72	24.39	648,897.57
1994	243,427.51	55.00	4,425.95	25.16	111,368.41
1995	637,438.12	55.00	11,589.78	25.95	300,703.65
1996	992,670.64	55.00	18,048.55	26.74	482,586.31
1997	754,369.67	55.00	13,715.81	27.54	377,712.11
1998	624,669.83	55.00	11,357.63	28.35	321,996.54
1999	660,921.33	55.00	12,016.75	29.17	350,551.81
2000	1,706,138.15	55.00	31,020.69	30.00	930,684.61
2001	794,513.61	55.00	14,445.70	30.84	445,518.37
2002	225,626.47	55.00	4,102.30	31.69	129,994.80
2003	3,783,308.96	55.00	68,787.42	32.54	2,238,534.75
2004	336,158.01	55.00	6,111.96	33.41	204,184.95
2005	304,164.60	55.00	5,530.26	34.28	189,577.50
2006	3,479,458.76	55.00	63,262.88	35.16	2,224,343.23
2007	3,816,541.06	55.00	69,391.64	36.05	2,501,442.55
2008	1,100,189.00	55.00	20,003.43	36.94	738,968.10
2009	18,910.36	55.00	343.82	37.84	13,012.02
2010	215,150.60	55.00	3,911.83	38.75	151,601.19
2011	497,543.40	55.00	9,046.24	39.67	358,871.10
2012	574,162.28	55.00	10,439.31	40.59	423,765.05
2013	3,315,957.15	55.00	60,290.12	41.52	2,503,346.43
2014	1,855,342.43	55.00	33,733.49	42.46	1,432,160.12
2015	816,045.29	55.00	14,837.18	43.40	643,863.44

PAWC - Water Operations
Water Operations
304.22 Pumping Structures - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2016	3,078,578.01	55.00	55,974.14	44.34	2,481,921.85
2017	596,454.65	55.00	10,844.63	45.29	491,159.95
2018	2,924,830.20	55.00	53,178.72	46.25	2,459,266.62
2019	142,272.05	55.00	2,586.76	47.20	122,104.67
2020	2,322,098.42	55.00	42,219.96	48.17	2,033,608.13
2021	6,088,150.85	55.00	110,693.63	49.13	5,438,823.56
2022	782,958.60	55.00	14,235.61	50.10	713,268.28
2023	9,740,769.56	55.00	177,104.87	51.08	9,046,197.88
2024	2,908,519.77	55.00	52,882.17	52.05	2,752,772.07
2025	13,936,240.07	55.00	253,386.14	53.03	13,438,036.85
2026	1,139,080.99	55.00	20,710.56	54.02	1,118,697.74
Total	82,667,312.98	42.52	1,499,695.18	40.93	61,385,646.63

Composite Average Remaining Life ... 40.93 Years

PAWC - Water Operations
Water Operations
304.31 Purification Buildings - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1900	690.28	0.00	0.00	0.00	0.00
1906	871.05	0.00	0.00	0.00	0.00
1910	955.96	0.00	0.00	0.00	0.00
1921	7,550.49	55.00	137.28	1.11	152.22
1924	65,855.77	55.00	1,197.38	1.89	2,257.25
1928	713.20	55.00	12.97	2.98	38.61
1930	44.14	55.00	0.80	3.53	2.83
1938	1,127.93	55.00	20.51	5.84	119.79
1951	429.84	55.00	7.82	9.90	77.39
1953	7,347.67	55.00	133.59	10.57	1,412.27
1954	63,503.27	55.00	1,154.60	10.91	12,595.07
1955	11,789.91	55.00	214.36	11.25	2,411.44
1958	1,894.04	55.00	34.44	12.29	423.37
1960	45.00	55.00	0.82	13.01	10.64
1961	26,097.98	55.00	474.51	13.37	6,345.43
1962	893.00	55.00	16.24	13.74	223.08
1963	541.00	55.00	9.84	14.11	138.80
1964	398.22	55.00	7.24	14.49	104.90
1965	321.42	55.00	5.84	14.87	86.88
1966	438.31	55.00	7.97	15.25	121.54
1967	22,777.88	55.00	414.14	15.64	6,477.31
1969	89,590.44	55.00	1,628.92	16.43	26,767.47
1970	358.00	55.00	6.51	16.84	109.59
1972	2,625.00	55.00	47.73	17.66	842.84
1973	6,119,638.13	55.00	111,266.16	18.08	2,011,598.56
1975	69,470.87	55.00	1,263.11	18.94	23,917.46
1976	3,042,618.84	55.00	55,320.35	19.37	1,071,699.26

PAWC - Water Operations
Water Operations
304.31 Purification Buildings - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1977	49,822.29	55.00	905.86	19.82	17,950.53
1978	89.00	55.00	1.62	20.27	32.79
1979	16,962.81	55.00	308.41	20.72	6,391.00
1980	10,568.86	55.00	192.16	21.19	4,070.95
1981	5,396.00	55.00	98.11	21.65	2,124.50
1982	364.13	55.00	6.62	22.13	146.52
1983	56,269.13	55.00	1,023.08	22.62	23,138.38
1984	44,668.70	55.00	812.16	23.11	18,767.99
1985	129,729.26	55.00	2,358.71	23.61	55,686.56
1986	56,314.64	55.00	1,023.90	24.12	24,692.21
1987	44,970.19	55.00	817.64	24.63	20,140.58
1988	6,104,219.17	55.00	110,985.81	25.16	2,792,170.49
1989	354,686.26	55.00	6,448.84	25.69	165,683.65
1990	18,290,076.26	55.00	332,546.86	26.24	8,724,406.58
1991	463,554.17	55.00	8,428.26	26.79	225,772.17
1992	10,159,569.23	55.00	184,719.45	27.35	5,051,741.61
1993	17,607,220.02	55.00	320,131.29	27.92	8,938,261.75
1994	594,840.73	55.00	10,815.29	28.50	308,270.13
1995	4,351,649.57	55.00	79,120.91	29.10	2,302,115.51
1996	404,065.68	55.00	7,346.65	29.70	218,194.50
1997	5,491,313.41	55.00	99,842.07	30.31	3,026,474.75
1998	141,383.91	55.00	2,570.62	30.94	79,533.38
1999	5,186,983.45	55.00	94,308.80	31.58	2,978,068.35
2000	2,036,497.32	55.00	37,027.23	32.23	1,193,320.98
2001	5,667,119.95	55.00	103,038.55	32.89	3,389,019.61
2002	747,232.76	55.00	13,586.05	33.57	456,028.20
2003	10,628,673.62	55.00	193,248.62	34.25	6,619,162.36

PAWC - Water Operations
Water Operations
304.31 Purification Buildings - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2004	1,361,185.65	55.00	24,748.83	34.95	865,072.65
2005	1,139,818.01	55.00	20,723.97	35.67	739,214.30
2006	16,555,339.22	55.00	301,006.19	36.40	10,956,236.25
2007	3,789,637.42	55.00	68,902.50	37.14	2,559,166.00
2008	1,016,921.02	55.00	18,489.47	37.90	700,691.27
2009	444,258.49	55.00	8,077.43	38.67	312,350.94
2010	4,933,534.34	55.00	89,700.63	39.46	3,539,325.49
2011	13,669,205.90	55.00	248,531.03	40.26	10,005,707.21
2012	49,857,456.27	55.00	906,499.27	41.08	37,235,938.14
2013	928,710.06	55.00	16,885.64	41.91	707,658.88
2014	2,457,866.32	55.00	44,688.48	42.75	1,910,627.46
2015	355,219.37	55.00	6,458.53	43.62	281,707.18
2016	1,590,034.14	55.00	28,909.71	44.50	1,286,372.62
2017	8,288,358.59	55.00	150,697.44	45.39	6,840,055.44
2018	38,454,880.52	55.00	699,179.69	46.30	32,369,860.95
2019	1,203,667.42	55.00	21,884.86	47.22	1,033,326.67
2020	253,889.24	55.00	4,616.17	48.15	222,280.94
2021	25,681,995.57	55.00	466,945.41	49.10	22,927,804.97
2022	22,470,854.74	55.00	408,561.02	50.06	20,453,630.66
2023	43,108,360.03	55.00	783,788.42	51.03	40,000,192.19
2024	4,422,427.36	55.00	80,407.78	52.02	4,182,477.52
2025	22,035,119.09	55.00	400,638.56	53.00	21,235,656.81
2026	6,550,768.35	55.00	119,104.89	54.00	6,431,733.26
2027	78,223,343.08	55.00	1,422,242.70	54.75	77,867,871.21

PAWC - Water Operations
Water Operations
304.31 Purification Buildings - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	446,975,678.36	52.88	8,126,785.29	43.62	354,474,259.05

Composite Average Remaining Life ... *43.62 Years*

PAWC - Water Operations
Water Operations
304.32 Purification Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 60 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1949	335.84	60.00	5.60	5.85	32.75
1951	2,352.20	60.00	39.20	6.39	250.59
1952	275.37	60.00	4.59	6.66	30.59
1953	896.75	60.00	14.95	6.95	103.81
1954	480.59	60.00	8.01	7.24	58.00
1955	36.20	60.00	0.60	7.54	4.55
1956	34.09	60.00	0.57	7.85	4.46
1957	191.80	60.00	3.20	8.17	26.11
1958	509.09	60.00	8.48	8.50	72.10
1959	47.25	60.00	0.79	8.84	6.96
1960	1,895.10	60.00	31.58	9.20	290.56
1961	229.22	60.00	3.82	9.57	36.56
1962	324.86	60.00	5.41	9.95	53.90
1963	507.11	60.00	8.45	10.35	87.51
1964	150.81	60.00	2.51	10.77	27.07
1965	130.84	60.00	2.18	11.20	24.42
1966	361.68	60.00	6.03	11.64	70.19
1967	14.97	60.00	0.25	12.11	3.02
1968	16.61	60.00	0.28	12.58	3.48
1969	6,463.94	60.00	107.73	13.08	1,408.75
1970	132.57	60.00	2.21	13.59	30.02
1971	1,563.19	60.00	26.05	14.11	367.69
1972	923,838.16	60.00	15,397.30	14.65	225,592.69
1973	8,034.18	60.00	133.90	15.21	2,036.53
1974	7,164.26	60.00	119.40	15.78	1,884.31
1975	194,365.07	60.00	3,239.42	16.36	53,011.80
1976	34,236.70	60.00	570.61	16.97	9,681.33

PAWC - Water Operations
Water Operations
304.32 Purification Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 60 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1977	1,187.06	60.00	19.78	17.58	347.84
1978	2,516.14	60.00	41.94	18.21	763.55
1979	9,548.18	60.00	159.14	18.85	2,999.84
1980	610.36	60.00	10.17	19.51	198.43
1981	22,141.40	60.00	369.02	20.17	7,443.42
1982	364,133.65	60.00	6,068.89	20.85	126,542.73
1983	77,614.65	60.00	1,293.58	21.54	27,866.76
1984	16,826.56	60.00	280.44	22.24	6,237.74
1985	402,268.42	60.00	6,704.47	22.96	153,913.92
1986	14,998.98	60.00	249.98	23.68	5,919.92
1987	23,576.56	60.00	392.94	24.41	9,593.13
1988	951,616.18	60.00	15,860.27	25.16	399,029.66
1989	2,214,166.43	60.00	36,902.77	25.91	956,288.49
1990	893,748.89	60.00	14,895.81	26.68	397,356.55
1991	1,015,158.70	60.00	16,919.31	27.45	464,434.62
1992	10,568.40	60.00	176.14	28.23	4,972.92
1993	1,502.06	60.00	25.03	29.02	726.56
1994	890,063.95	60.00	14,834.40	29.82	442,416.29
1995	1,280,476.04	60.00	21,341.26	30.63	653,745.96
1996	477,008.26	60.00	7,950.14	31.45	250,022.13
1997	1,595,296.44	60.00	26,588.27	32.28	858,148.02
1998	583,333.77	60.00	9,722.23	33.11	321,900.56
1999	1,734,191.18	60.00	28,903.18	33.95	981,272.51
2000	12,575.45	60.00	209.59	34.80	7,293.98
2001	2,001,872.81	60.00	33,364.54	35.66	1,189,747.42
2002	317,064.16	60.00	5,284.40	36.52	193,001.93
2003	402,090.26	60.00	6,701.50	37.40	250,611.61

PAWC - Water Operations
Water Operations
304.32 Purification Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *60* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2004	321,800.72	60.00	5,363.34	38.28	205,289.90
2005	87,081.58	60.00	1,451.36	39.16	56,838.39
2006	18,434.59	60.00	307.24	40.06	12,307.11
2007	245,523.87	60.00	4,092.06	40.96	167,599.48
2008	103,578.18	60.00	1,726.30	41.86	72,268.10
2009	746,951.23	60.00	12,449.18	42.78	532,532.94
2010	699,639.64	60.00	11,660.66	43.70	509,520.98
2011	2,005,601.03	60.00	33,426.68	44.62	1,491,482.89
2012	2,610,578.33	60.00	43,509.63	45.55	1,981,875.86
2013	3,109,379.27	60.00	51,822.98	46.49	2,409,041.50
2014	3,739,903.49	60.00	62,331.71	47.43	2,956,126.20
2015	424,655.20	60.00	7,077.59	48.37	342,353.12
2016	1,483,425.60	60.00	24,723.76	49.32	1,219,411.46
2017	2,192,310.04	60.00	36,538.49	50.27	1,836,970.01
2018	1,943,056.31	60.00	32,384.27	51.23	1,659,157.48
2019	1,882,895.81	60.00	31,381.59	52.20	1,637,978.84
2020	3,462,571.05	60.00	57,709.51	53.16	3,067,867.75
2021	2,979,199.52	60.00	49,653.32	54.13	2,687,716.87
2022	7,487,400.12	60.00	124,789.98	55.10	6,876,139.03
2023	10,959,821.41	60.00	182,663.66	56.08	10,243,063.08
2024	1,821,787.54	60.00	30,363.12	57.05	1,732,330.90
2025	9,731,000.83	60.00	162,183.32	58.03	9,412,109.25
2026	2,713,341.25	60.00	45,222.35	59.02	2,668,824.58
2027	2,717,103.15	60.00	45,285.04	59.75	2,705,956.78

PAWC - Water Operations
Water Operations
304.32 Purification Buildings - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *60* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	79,987,783.15	60.00	1,333,129.47	48.38	64,492,758.77

Composite Average Remaining Life ... 48.38 Years

PAWC - Water Operations
Water Operations
304.36 Waste Handling Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1991	10,728,292.17	55.00	195,059.87	26.79	5,225,170.97
1998	68,969.00	55.00	1,253.98	30.94	38,797.47
2000	122,317.58	55.00	2,223.96	32.23	71,674.11
2001	25,833.98	55.00	469.71	32.89	15,449.09
2003	4,063.71	55.00	73.89	34.25	2,530.73
2007	19,061.38	55.00	346.57	37.14	12,872.27
2010	29,348.23	55.00	533.60	39.46	21,054.47
2012	197,525.13	55.00	3,591.37	41.08	147,521.23
2013	129,535.29	55.00	2,355.19	41.91	98,703.35
2014	18,080.06	55.00	328.73	42.75	14,054.57
2016	167,667.01	55.00	3,048.49	44.50	135,646.30
2021	13,550,479.62	55.00	246,372.37	49.10	12,097,298.01
2023	3,380,408.50	55.00	61,461.98	51.03	3,136,676.73
Total	28,441,581.66	55.00	517,119.70	40.64	21,017,449.31

Composite Average Remaining Life ... 40.64 Years

PAWC - Water Operations
Water Operations
304.60 Office Buildings - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1986	1,193,234.40	55.00	21,695.16	28.43	616,742.37
1987	1,333,438.47	55.00	24,244.32	28.92	701,214.62
1988	66,300.97	55.00	1,205.47	29.42	35,467.55
1989	673,796.52	55.00	12,250.84	29.93	366,614.76
1990	53,021.27	55.00	964.02	30.43	29,338.68
1991	4,089.45	55.00	74.35	30.95	2,300.95
1992	18,335.02	55.00	333.36	31.46	10,488.48
1994	2,429.06	55.00	44.16	32.51	1,435.89
1995	69,619.62	55.00	1,265.81	33.04	41,828.07
1996	25,231.49	55.00	458.75	33.58	15,406.02
1997	109,992.96	55.00	1,999.87	34.12	68,245.10
1998	1,013.00	55.00	18.42	34.67	638.64
2001	62,892.80	55.00	1,143.50	36.36	41,577.79
2002	10,259.32	55.00	186.53	36.94	6,889.60
2003	73,531.37	55.00	1,336.93	37.52	50,156.54
2005	152,175.13	55.00	2,766.82	38.70	107,085.90
2006	268,253.78	55.00	4,877.34	39.31	191,724.34
2007	23,101.69	55.00	420.03	39.92	16,768.95
2008	107,200.39	55.00	1,949.10	40.54	79,024.82
2009	4,369.19	55.00	79.44	41.18	3,271.08
2010	30,818.46	55.00	560.34	41.82	23,432.65
2011	114,845.78	55.00	2,088.10	42.47	88,684.41
2012	143,420.45	55.00	2,607.64	43.13	112,478.61
2013	360,133.68	55.00	6,547.88	43.81	286,852.14
2014	82,708.84	55.00	1,503.80	44.49	66,908.04
2015	29,091.75	55.00	528.94	45.19	23,903.95
2016	107,280.37	55.00	1,950.55	45.90	89,539.76

PAWC - Water Operations
Water Operations
304.60 Office Buildings - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2017	95,983.57	55.00	1,745.15	46.63	81,379.64
2018	19,728,894.53	55.00	358,706.92	47.37	16,993,303.09
2019	1,662,367.46	55.00	30,224.84	48.13	1,454,698.78
2023	11,478.86	55.00	208.71	51.36	10,718.17
2025	2,409,664.54	55.00	43,812.05	53.11	2,326,680.21
Total	29,028,974.19	55.00	527,799.16	45.37	23,944,799.60

Composite Average Remaining Life ... 45.37 Years

PAWC - Water Operations
Water Operations
304.61 Office Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1924	845.00	0.00	0.00	0.00	0.00
1926	215.00	0.00	0.00	0.00	0.00
1958	13.02	50.00	0.26	3.85	1.00
1960	48.73	50.00	0.97	4.36	4.25
1961	21.19	50.00	0.42	4.62	1.96
1963	33,045.39	50.00	660.91	5.15	3,402.22
1964	1,079.50	50.00	21.59	5.42	117.01
1965	11,957.68	50.00	239.15	5.70	1,362.90
1966	1,125.43	50.00	22.51	5.99	134.75
1967	48,178.36	50.00	963.57	6.29	6,056.06
1968	57,455.89	50.00	1,149.12	6.60	7,578.48
1969	1,273.22	50.00	25.46	6.92	176.17
1970	11,121.74	50.00	222.43	7.26	1,613.88
1971	9,019.90	50.00	180.40	7.61	1,372.52
1972	61,461.67	50.00	1,229.23	7.98	9,806.00
1973	1,636.52	50.00	32.73	8.36	273.74
1975	6,526.85	50.00	130.54	9.19	1,199.60
1976	45,687.00	50.00	913.74	9.63	8,799.98
1977	13,240.50	50.00	264.81	10.09	2,672.11
1979	28,098.53	50.00	561.97	11.07	6,219.79
1980	1.10	50.00	0.02	11.58	0.25
1981	45,810.00	50.00	916.20	12.12	11,105.18
1982	361,045.49	50.00	7,220.91	12.68	91,527.64
1983	32,369.00	50.00	647.38	13.25	8,576.45
1984	902.06	50.00	18.04	13.84	249.66
1985	72,985.69	50.00	1,459.71	14.45	21,086.43
1986	351,447.26	50.00	7,028.94	15.07	105,923.64

PAWC - Water Operations
Water Operations
304.61 Office Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1987	596,055.80	50.00	11,921.11	15.71	187,277.61
1988	612,729.15	50.00	12,254.58	16.37	200,550.23
1989	449,868.60	50.00	8,997.37	17.04	153,277.58
1990	143,314.05	50.00	2,866.28	17.72	50,792.38
1991	33,727.65	50.00	674.55	18.42	12,424.80
1992	148,265.09	50.00	2,965.30	19.13	56,729.92
1993	12,902.30	50.00	258.05	19.86	5,123.77
1994	325,416.52	50.00	6,508.33	20.59	134,027.28
1995	58,927.46	50.00	1,178.55	21.34	25,153.02
1996	47,370.53	50.00	947.41	22.10	20,940.78
1997	35,194.64	50.00	703.89	22.88	16,101.76
1998	15,964.58	50.00	319.29	23.66	7,553.95
1999	61,011.45	50.00	1,220.23	24.45	29,837.52
2000	754,379.80	50.00	15,087.59	25.26	381,065.15
2001	49,302.15	50.00	986.04	26.07	25,707.71
2002	6,125.14	50.00	122.50	26.90	3,294.88
2003	84,890.14	50.00	1,697.80	27.73	47,081.87
2004	37,729.39	50.00	754.59	28.58	21,562.61
2005	346,446.58	50.00	6,928.93	29.43	203,911.91
2006	226,824.45	50.00	4,536.49	30.29	137,418.98
2007	90,382.39	50.00	1,807.65	31.16	56,333.04
2008	234,555.06	50.00	4,691.10	32.04	150,322.58
2009	101,931.15	50.00	2,038.62	32.93	67,138.12
2010	61,124.75	50.00	1,222.49	33.83	41,357.08
2011	121,514.52	50.00	2,430.29	34.73	84,415.80
2012	183,845.36	50.00	3,676.91	35.65	131,071.34
2013	88,318.55	50.00	1,766.37	36.57	64,590.28

PAWC - Water Operations
Water Operations
304.61 Office Buildings - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2014	402,537.52	50.00	8,050.75	37.49	301,846.67
2015	12,615.97	50.00	252.32	38.43	9,695.58
2016	683,665.11	50.00	13,673.30	39.36	538,246.73
2017	539,219.66	50.00	10,784.39	40.31	434,714.28
2018	1,151,356.24	50.00	23,027.11	41.26	950,094.35
2019	1,338,951.60	50.00	26,779.02	42.22	1,130,479.41
2020	619,050.23	50.00	12,381.00	43.18	534,551.57
2021	830,510.39	50.00	16,610.20	44.14	733,167.45
2022	1,604,063.59	50.00	32,081.26	45.11	1,447,123.50
2023	387,682.44	50.00	7,753.65	46.08	357,290.01
2024	800,288.59	50.00	16,005.76	47.06	753,164.97
2025	887,174.99	50.00	17,743.49	48.03	852,300.42
Total	15,381,845.30	48.48	307,615.56	34.61	10,646,998.57

Composite Average Remaining Life ... 34.61 Years

PAWC - Water Operations
Water Operations
304.62 Garage Buildings - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1958	1,356.00	55.00	24.65	14.21	350.31
1965	653,341.28	55.00	11,878.93	16.90	200,736.62
1967	45,486.00	55.00	827.02	17.70	14,636.04
1969	4,300.00	55.00	78.18	18.51	1,447.28
1970	2,902.00	55.00	52.76	18.93	998.55
1972	1,319.97	55.00	24.00	19.76	474.33
1973	9,153.18	55.00	166.42	20.19	3,360.07
1975	40.52	55.00	0.74	21.06	15.51
1977	1,690.34	55.00	30.73	21.94	674.34
1979	3,808.27	55.00	69.24	22.85	1,582.01
1981	0.16	55.00	0.00	23.78	0.07
1985	8,909.55	55.00	161.99	25.70	4,163.39
1986	56,270.95	55.00	1,023.11	26.20	26,802.84
1987	799,727.39	55.00	14,540.49	26.70	388,252.32
1988	16,136.70	55.00	293.39	27.21	7,983.91
1989	365,534.82	55.00	6,646.09	27.73	184,295.29
1990	21,055.84	55.00	382.83	28.25	10,816.85
1991	5,126.72	55.00	93.21	28.79	2,683.31
1992	10,300.00	55.00	187.27	29.33	5,491.87
1993	2,884.28	55.00	52.44	29.87	1,566.61
1995	1,257.55	55.00	22.86	30.99	708.65
1996	53,669.41	55.00	975.81	31.57	30,802.08
1997	53,667.76	55.00	975.78	32.15	31,366.63
1998	41,194.00	55.00	748.98	32.74	24,518.50
2000	55,773.26	55.00	1,014.06	33.94	34,421.60
2001	106,652.86	55.00	1,939.14	34.56	67,022.46
2002	3,229.97	55.00	58.73	35.19	2,066.67

PAWC - Water Operations
Water Operations
304.62 Garage Buildings - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2006	123,630.77	55.00	2,247.83	37.81	84,989.65
2007	61,197.63	55.00	1,112.68	38.49	42,829.49
2008	530,439.54	55.00	9,644.35	39.18	377,903.78
2009	415,793.46	55.00	7,559.88	39.89	301,567.10
2010	105,796.74	55.00	1,923.58	40.61	78,114.64
2011	56,537.12	55.00	1,027.95	41.34	42,495.36
2012	1,931,567.43	55.00	35,119.40	42.08	1,477,951.27
2013	23,340.26	55.00	424.37	42.84	18,180.01
2014	16,852,825.36	55.00	306,414.91	43.61	13,362,189.17
2015	31,770.86	55.00	577.65	44.39	25,643.36
2018	19,072,598.79	55.00	346,774.41	46.83	16,239,306.40
2019	6,338,430.77	55.00	115,244.16	47.67	5,493,547.97
2021	11,528,614.10	55.00	209,611.10	49.40	10,354,723.77
Total	59,397,331.61	55.00	1,079,951.14	45.32	48,946,680.08

Composite Average Remaining Life ... 45.32 Years

PAWC - Water Operations
Water Operations
304.63 Garage Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 45 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1951	224.35	0.00	0.00	0.00	0.00
1954	7,218.02	45.00	160.40	0.81	130.45
1955	102.19	45.00	2.27	1.03	2.34
1956	4,958.84	45.00	110.20	1.26	138.49
1957	1,837.61	45.00	40.84	1.49	60.85
1958	961.89	45.00	21.38	1.71	36.53
1959	597.93	45.00	13.29	1.96	26.06
1960	1,741.98	45.00	38.71	2.22	85.76
1961	1,982.01	45.00	44.04	2.47	108.85
1962	710.49	45.00	15.79	2.72	42.89
1963	2,085.78	45.00	46.35	2.97	137.89
1964	2,784.23	45.00	61.87	3.23	200.07
1965	508.47	45.00	11.30	3.49	39.46
1966	1,064.78	45.00	23.66	3.75	88.76
1967	4,993.16	45.00	110.96	4.00	443.92
1968	2,254.26	45.00	50.09	4.26	213.53
1969	2,390.61	45.00	53.12	4.53	240.56
1970	6,820.17	45.00	151.56	4.80	727.38
1971	108.61	45.00	2.41	5.07	12.24
1972	1,378.44	45.00	30.63	5.36	164.16
1973	3,765.33	45.00	83.67	5.66	473.40
1974	1,742.20	45.00	38.72	5.97	231.10
1976	3,864.48	45.00	85.88	6.63	569.76
1977	1,262.70	45.00	28.06	6.99	196.25
1978	217.32	45.00	4.83	7.37	35.60
1980	2,677.16	45.00	59.49	8.19	486.99
1981	1,451.66	45.00	32.26	8.62	278.18

PAWC - Water Operations
Water Operations
304.63 Garage Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *45* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1982	5,970.51	45.00	132.68	9.08	1,204.98
1983	6,523.39	45.00	144.96	9.56	1,386.07
1984	48,157.46	45.00	1,070.17	10.06	10,767.98
1985	33,888.02	45.00	753.07	10.59	7,972.19
1986	26,460.94	45.00	588.02	11.13	6,544.15
1987	787.48	45.00	17.50	11.69	204.61
1988	529,385.73	45.00	11,764.12	12.27	144,400.76
1989	64,411.06	45.00	1,431.36	12.88	18,434.62
1990	940,610.84	45.00	20,902.45	13.50	282,186.55
1991	677,826.73	45.00	15,062.81	14.14	212,971.50
1992	315,133.45	45.00	7,002.96	14.79	103,606.37
1993	10,554.27	45.00	234.54	15.47	3,627.56
1994	66,069.03	45.00	1,468.20	16.16	23,722.46
1995	6,712.65	45.00	149.17	16.86	2,515.16
1996	87,209.96	45.00	1,938.00	17.58	34,067.99
1997	114,640.00	45.00	2,547.55	18.31	46,647.51
1998	16,673.34	45.00	370.52	19.06	7,061.33
1999	134,478.44	45.00	2,988.41	19.82	59,220.32
2000	70,199.60	45.00	1,559.99	20.59	32,116.82
2001	20,481.16	45.00	455.14	21.37	9,726.77
2002	9,242.43	45.00	205.39	22.17	4,552.65
2004	1,381.59	45.00	30.70	23.79	730.51
2005	48,343.08	45.00	1,074.29	24.62	26,452.11
2006	45,384.77	45.00	1,008.55	25.46	25,680.68
2007	50,145.83	45.00	1,114.35	26.32	29,324.27
2008	30,389.73	45.00	675.33	27.18	18,352.91
2009	16,131.55	45.00	358.48	28.05	10,054.39

PAWC - Water Operations
Water Operations
304.63 Garage Buildings - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *45* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2010	3,246.17	45.00	72.14	28.93	2,086.78
2011	201,637.31	45.00	4,480.83	29.82	133,608.42
2012	210,711.21	45.00	4,682.47	30.72	143,836.19
2013	45,232.71	45.00	1,005.17	31.63	31,789.15
2014	70,773.93	45.00	1,572.75	32.54	51,179.47
2015	510,071.22	45.00	11,334.91	33.46	379,319.76
2016	77,144.72	45.00	1,714.33	34.40	58,966.70
2017	35,167.27	45.00	781.49	35.33	27,613.58
2018	1,413,711.28	45.00	31,415.79	36.28	1,139,722.03
2019	164,968.85	45.00	3,665.97	37.23	136,480.32
2020	417,000.55	45.00	9,266.67	38.18	353,846.56
2021	1,968,623.43	45.00	43,747.17	39.15	1,712,556.56
2022	397,906.18	45.00	8,842.36	40.11	354,690.27
2023	164,862.77	45.00	3,663.62	41.08	150,511.98
2025	285,224.77	45.00	6,338.33	43.04	272,771.21
2026	3,770,747.25	45.00	83,794.34	44.02	3,688,309.59
2027	1,183,982.24	45.00	26,310.70	44.75	1,177,498.98
Total	14,357,909.57	44.37	319,059.52	34.30	10,943,492.22

Composite Average Remaining Life ... 34.30 Years

PAWC - Water Operations
Water Operations
304.65 Miscellaneous Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 *Survivor Curve:* S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1927	25.53	0.00	0.00	0.00	0.00
1929	378.06	0.00	0.00	0.00	0.00
1930	3,046.78	0.00	0.00	0.00	0.00
1936	1,103.87	0.00	0.00	0.00	0.00
1941	568.94	0.00	0.00	0.00	0.00
1942	476.52	0.00	0.00	0.00	0.00
1943	37.77	0.00	0.00	0.00	0.00
1951	0.88	0.00	0.00	0.00	0.00
1952	445.59	0.00	0.00	0.00	0.00
1954	1,758.62	0.00	0.00	0.00	0.00
1958	1,321.15	35.00	37.75	0.50	18.87
1959	127.43	35.00	3.64	0.79	2.88
1960	1,218.44	35.00	34.81	1.12	38.90
1962	171.70	35.00	4.91	1.79	8.76
1963	980.64	35.00	28.02	2.12	59.37
1964	402.27	35.00	11.49	2.45	28.18
1967	403.61	35.00	11.53	3.45	39.81
1969	4.50	35.00	0.13	4.12	0.53
1970	243.77	35.00	6.96	4.45	31.03
1971	451.81	35.00	12.91	4.79	61.83
1972	546.33	35.00	15.61	5.13	80.03
1973	23.52	35.00	0.67	5.47	3.67
1975	2,831.53	35.00	80.90	6.15	497.78
1981	137.31	35.00	3.92	8.27	32.46
1983	1,001.92	35.00	28.63	9.01	257.98
1986	1,922.47	35.00	54.93	10.15	557.58
1987	6,529.73	35.00	186.56	10.54	1,966.60

PAWC - Water Operations
Water Operations
304.65 Miscellaneous Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1988	3,114.76	35.00	88.99	10.94	973.29
1989	514.32	35.00	14.69	11.34	166.61
1991	2,441.51	35.00	69.76	12.16	848.18
1992	1,451.45	35.00	41.47	12.58	521.67
1996	21,695.49	35.00	619.87	14.33	8,885.02
1997	6,576.10	35.00	187.89	14.79	2,779.31
1998	4,442.06	35.00	126.92	15.26	1,936.71
2003	65,140.65	35.00	1,861.16	17.74	33,020.68
2004	202,430.99	35.00	5,783.73	18.27	105,674.65
2005	173,718.45	35.00	4,963.37	18.81	93,370.59
2006	63,226.24	35.00	1,806.46	19.37	34,982.52
2007	259,622.31	35.00	7,417.76	19.93	147,847.22
2008	324,859.77	35.00	9,281.68	20.51	190,379.40
2009	26,274.00	35.00	750.68	21.11	15,843.32
2010	147,211.85	35.00	4,206.04	21.71	91,324.93
2011	1,697.66	35.00	48.50	22.34	1,083.45
2012	59,042.10	35.00	1,686.91	22.98	38,760.74
2013	28,489.47	35.00	813.98	23.63	19,237.87
2014	11,699.12	35.00	334.26	24.31	8,125.35
2015	589,042.21	35.00	16,829.73	25.00	420,756.49
2016	482,929.81	35.00	13,797.96	25.71	354,770.34
2017	368,208.98	35.00	10,520.23	26.44	278,165.37
2018	766,013.70	35.00	21,886.05	27.19	595,128.32
2019	38.57	35.00	1.10	27.96	30.82
2020	9,314.33	35.00	266.12	28.76	7,653.16
2021	35,263.58	35.00	1,007.53	29.57	29,796.85
2022	36,060.73	35.00	1,030.30	30.41	31,335.33

PAWC - Water Operations
Water Operations
304.65 Miscellaneous Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2023	709,557.08	35.00	20,273.00	31.28	634,083.86
2025	974,827.67	35.00	27,852.14	33.08	921,342.64
2026	669,424.97	35.00	19,126.38	34.02	650,742.96
2027	161,502.86	35.00	4,614.35	34.75	160,354.50
Total	6,231,993.48	28.97	177,832.40	27.46	4,883,608.44

Composite Average Remaining Life ... 27.46 Years

PAWC - Water Operations
Water Operations
305.20 Collecting Reservoirs - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 75 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1975	3,696.63	75.00	49.29	29.06	1,432.16
1976	33,873.94	75.00	451.65	29.78	13,451.52
1977	10,916.92	75.00	145.56	30.52	4,441.96
1978	1,349.94	75.00	18.00	31.26	562.69
1979	1,950.67	75.00	26.01	32.01	832.61
1980	4,963.85	75.00	66.18	32.77	2,168.88
1981	40,478.96	75.00	539.72	33.54	18,101.55
1982	6,586.84	75.00	87.82	34.31	3,013.45
1983	23,816.23	75.00	317.55	35.09	11,143.52
1984	9,522.41	75.00	126.97	35.88	4,555.88
1985	9,787.50	75.00	130.50	36.68	4,786.47
1986	63,587.47	75.00	847.83	37.48	31,776.28
1987	238,785.72	75.00	3,183.81	38.29	121,911.18
1988	5,057.13	75.00	67.43	39.11	2,636.91
1989	10,658.11	75.00	142.11	39.93	5,674.21
1990	6,573.40	75.00	87.65	40.76	3,572.46
1991	64,197.42	75.00	855.97	41.60	35,604.85
1992	488,163.58	75.00	6,508.85	42.44	276,220.82
1993	11,903.21	75.00	158.71	43.29	6,870.29
1994	590.47	75.00	7.87	44.14	347.54
1995	402,185.05	75.00	5,362.47	45.00	241,330.02
1996	24,583.99	75.00	327.79	45.87	15,036.38
1997	584,524.50	75.00	7,793.66	46.75	364,316.75
1998	8,582.75	75.00	114.44	47.62	5,449.86
2000	36,206.67	75.00	482.76	49.40	23,847.81
2001	107,327.29	75.00	1,431.03	50.29	71,972.48
2002	121,804.01	75.00	1,624.05	51.20	83,145.72

PAWC - Water Operations
Water Operations
305.20 Collecting Reservoirs - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2003	6,013.22	75.00	80.18	52.10	4,177.35
2006	13,535.28	75.00	180.47	54.85	9,898.77
2007	22,971.49	75.00	306.29	55.77	17,082.94
2014	1,219,266.97	75.00	16,256.89	62.37	1,013,888.85
2016	7,735.78	75.00	103.14	64.28	6,630.23
2017	107,019.88	75.00	1,426.93	65.24	93,099.29
2019	385,025.55	75.00	5,133.67	67.18	344,863.65
2020	632,820.09	75.00	8,437.60	68.15	575,003.33
2023	1,227,876.69	75.00	16,371.69	71.07	1,163,580.84
2024	4,929,950.44	75.00	65,732.67	72.05	4,736,155.36
2025	549,203.56	75.00	7,322.71	73.03	534,796.56
Total	11,423,093.61	75.00	152,307.91	64.69	9,853,381.42

Composite Average Remaining Life ... 64.69 Years

PAWC - Water Operations
Water Operations
306.10 Lake Intakes - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S1.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1962	4,167.41	55.00	75.77	12.18	923.13
1966	6,696.14	55.00	121.75	13.55	1,649.84
1970	1,783.13	55.00	32.42	15.02	487.02
1990	18,120.03	55.00	329.46	24.48	8,064.94
1992	743,957.01	55.00	13,526.49	25.67	347,199.53
1995	1,697,864.04	55.00	30,870.26	27.55	850,620.32
1996	16,079.46	55.00	292.35	28.21	8,247.48
1997	9,262,132.20	55.00	168,402.42	28.88	4,863,107.07
1998	153,399.52	55.00	2,789.08	29.56	82,452.65
2004	89,428.33	55.00	1,625.97	33.97	55,231.25
2005	48,578.25	55.00	883.24	34.75	30,695.73
2007	52,227.42	55.00	949.59	36.37	34,533.02
2008	24,096.05	55.00	438.11	37.19	16,293.79
2018	210,583.17	55.00	3,828.79	46.16	176,738.29
Total	12,329,112.16	55.00	224,165.69	28.89	6,476,244.05

Composite Average Remaining Life ... 28.89 Years

PAWC - Water Operations
Water Operations
306.20 Lake Intakes - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1903	410.39	0.00	0.00	0.00	0.00
1905	534.43	0.00	0.00	0.00	0.00
1906	75.36	0.00	0.00	0.00	0.00
1907	35.28	0.00	0.00	0.00	0.00
1908	3,802.04	0.00	0.00	0.00	0.00
1909	483.18	0.00	0.00	0.00	0.00
1914	78.40	0.00	0.00	0.00	0.00
1915	1,821.25	0.00	0.00	0.00	0.00
1916	339.02	0.00	0.00	0.00	0.00
1920	325.59	0.00	0.00	0.00	0.00
1924	169.04	0.00	0.00	0.00	0.00
1934	259.69	50.00	5.19	2.48	12.87
1937	1,562.87	50.00	31.26	3.49	109.04
1938	212.56	50.00	4.25	3.82	16.25
1948	4,010.11	50.00	80.20	7.17	575.31
1954	498.28	50.00	9.97	9.23	91.96
1955	1,186.11	50.00	23.72	9.58	227.16
1959	0.02	50.00	0.00	10.99	0.00
1961	190,082.61	50.00	3,801.65	11.71	44,527.97
1962	2,379.72	50.00	47.59	12.08	574.84
1963	0.34	50.00	0.01	12.45	0.08
1964	12,769.99	50.00	255.40	12.82	3,273.41
1966	20,748.56	50.00	414.97	13.57	5,630.37
1967	34,143.96	50.00	682.88	13.95	9,525.30
1968	3,233.89	50.00	64.68	14.33	927.02
1969	330,412.38	50.00	6,608.24	14.72	97,276.93
1970	237.03	50.00	4.74	15.11	71.64

PAWC - Water Operations
Water Operations
306.20 Lake Intakes - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1972	2,354.32	50.00	47.09	15.91	748.98
1973	187,614.58	50.00	3,752.29	16.31	61,199.95
1974	681.97	50.00	13.64	16.72	228.02
1976	4,852.30	50.00	97.05	17.55	1,702.83
1979	4,513.05	50.00	90.26	18.83	1,699.23
1980	216.19	50.00	4.32	19.26	83.29
1982	0.25	50.00	0.00	20.15	0.10
1983	581.03	50.00	11.62	20.60	239.44
1984	7,023.48	50.00	140.47	21.06	2,958.86
1985	697.88	50.00	13.96	21.53	300.50
1986	5,080.50	50.00	101.61	22.00	2,235.50
1987	367.98	50.00	7.36	22.48	165.43
1988	324.97	50.00	6.50	22.96	149.25
1989	29,358.08	50.00	587.16	23.46	13,771.87
1991	298,477.84	50.00	5,969.55	24.46	146,013.67
1992	13,193.06	50.00	263.86	24.97	6,589.49
1994	7,099.58	50.00	141.99	26.02	3,695.21
1996	984,488.40	50.00	19,689.75	27.11	533,754.65
1997	104,446.54	50.00	2,088.93	27.66	57,786.82
1998	4,130.31	50.00	82.61	28.23	2,331.77
1999	424,004.45	50.00	8,480.08	28.80	244,236.11
2001	11,450.40	50.00	229.01	29.98	6,865.09
2002	110,605.59	50.00	2,212.11	30.58	67,648.37
2006	199,267.35	50.00	3,985.34	33.10	131,927.24
2007	431,304.73	50.00	8,626.09	33.76	291,237.47
2008	71,498.70	50.00	1,429.97	34.43	49,239.49
2011	35,369.46	50.00	707.39	36.52	25,837.16

PAWC - Water Operations
Water Operations
306.20 Lake Intakes - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2013	63,613.56	50.00	1,272.27	37.99	48,328.24
2014	6,708.45	50.00	134.17	38.74	5,197.39
2017	303,443.55	50.00	6,068.86	41.08	249,323.65
2019	144,996.82	50.00	2,899.93	42.72	123,896.25
2020	65,210.69	50.00	1,304.21	43.57	56,823.42
2021	110,041.39	50.00	2,200.83	44.43	97,785.84
2023	1,193,969.83	50.00	23,879.37	46.21	1,103,438.38
2025	2,794,308.00	50.00	55,886.10	48.06	2,685,943.08
Total	8,231,107.38	41.13	164,460.49	37.62	6,186,222.20

Composite Average Remaining Life ... 37.62 Years

PAWC - Water Operations
Water Operations
307.00 Wells and Springs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1901	681.93	0.00	0.00	0.00	0.00
1904	1,464.95	0.00	0.00	0.00	0.00
1905	11,469.70	0.00	0.00	0.00	0.00
1907	59.56	0.00	0.00	0.00	0.00
1908	10.92	0.00	0.00	0.00	0.00
1910	6,312.19	0.00	0.00	0.00	0.00
1912	844.78	0.00	0.00	0.00	0.00
1913	1,485.52	0.00	0.00	0.00	0.00
1914	681.15	0.00	0.00	0.00	0.00
1915	2,497.70	0.00	0.00	0.00	0.00
1916	1,749.01	0.00	0.00	0.00	0.00
1918	1,176.08	55.00	21.38	0.50	10.69
1920	61.59	55.00	1.12	1.16	1.30
1922	2,800.86	55.00	50.92	1.85	94.39
1923	9,805.16	55.00	178.28	2.22	395.16
1924	8,312.21	55.00	151.13	2.58	390.42
1926	457.16	55.00	8.31	3.33	27.66
1927	1,171.62	55.00	21.30	3.70	78.73
1930	8.95	55.00	0.16	4.81	0.78
1934	197.86	55.00	3.60	6.33	22.76
1935	1,242.93	55.00	22.60	6.71	151.55
1937	3,037.93	55.00	55.24	7.47	412.78
1938	239.68	55.00	4.36	7.86	34.24
1939	2,531.85	55.00	46.03	8.24	379.39
1940	74.35	55.00	1.35	8.63	11.66
1941	825.77	55.00	15.01	9.02	135.37
1945	4,298.99	55.00	78.16	10.58	827.17

PAWC - Water Operations
Water Operations
307.00 Wells and Springs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1946	223.23	55.00	4.06	10.98	44.55
1948	861.30	55.00	15.66	11.77	184.36
1950	107.48	55.00	1.95	12.57	24.57
1951	605.10	55.00	11.00	12.98	142.75
1953	12,940.30	55.00	235.28	13.79	3,243.62
1954	14,752.89	55.00	268.23	14.19	3,807.20
1955	12,112.59	55.00	220.23	14.60	3,215.93
1956	1,595.84	55.00	29.02	15.01	435.62
1957	25,321.59	55.00	460.39	15.43	7,102.22
1958	2,582.60	55.00	46.96	15.84	743.84
1959	1,920.72	55.00	34.92	16.26	567.78
1960	45,989.30	55.00	836.17	16.68	13,944.51
1961	4,462.49	55.00	81.14	17.10	1,387.19
1962	2,997.16	55.00	54.49	17.52	954.71
1963	8,633.83	55.00	156.98	17.94	2,816.86
1964	2,114.28	55.00	38.44	18.37	706.22
1965	13,643.97	55.00	248.07	18.80	4,663.80
1966	120,566.08	55.00	2,192.11	19.23	42,157.08
1967	4,200.85	55.00	76.38	19.66	1,501.97
1968	7,099.79	55.00	129.09	20.10	2,594.72
1969	56,380.98	55.00	1,025.11	20.54	21,054.46
1970	7,896.19	55.00	143.57	20.98	3,011.97
1971	31,770.82	55.00	577.65	21.42	12,374.87
1972	101,470.63	55.00	1,844.92	21.87	40,345.75
1973	100,432.43	55.00	1,826.04	22.32	40,751.95
1974	38,731.78	55.00	704.21	22.77	16,033.78
1975	9,075.85	55.00	165.02	23.22	3,832.04

PAWC - Water Operations
Water Operations
307.00 Wells and Springs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1976	108,029.28	55.00	1,964.17	23.68	46,510.13
1977	20,490.03	55.00	372.55	24.14	8,992.99
1978	178,729.50	55.00	3,249.63	24.60	79,948.36
1979	92,568.39	55.00	1,683.06	25.07	42,191.85
1980	224,448.24	55.00	4,080.87	25.54	104,217.16
1981	134,002.70	55.00	2,436.41	26.01	63,372.12
1982	297,910.23	55.00	5,416.55	26.49	143,466.46
1983	167,873.11	55.00	3,052.24	26.97	82,308.15
1984	49,303.78	55.00	896.43	27.45	24,607.01
1985	97,160.86	55.00	1,766.56	27.94	49,352.59
1986	89,535.96	55.00	1,627.93	28.43	46,278.10
1987	304,913.16	55.00	5,543.87	28.92	160,344.53
1988	209,822.34	55.00	3,814.95	29.42	112,243.98
1989	96,664.83	55.00	1,757.54	29.93	52,595.63
1990	942,766.58	55.00	17,141.20	30.43	521,668.57
1991	90,932.61	55.00	1,653.32	30.95	51,163.70
1992	222,370.82	55.00	4,043.10	31.46	127,206.45
1993	80,566.53	55.00	1,464.84	31.98	46,852.80
1994	11,303.91	55.00	205.53	32.51	6,682.06
1995	77,258.54	55.00	1,404.70	33.04	46,417.60
1996	210,950.90	55.00	3,835.47	33.58	128,803.91
1997	132,590.72	55.00	2,410.74	34.12	82,265.87
1998	61,315.68	55.00	1,114.83	34.67	38,655.93
1999	40,117.29	55.00	729.40	35.23	25,696.82
2000	893,302.05	55.00	16,241.84	35.79	581,322.56
2001	249,456.87	55.00	4,535.58	36.36	164,913.40
2002	304,629.46	55.00	5,538.71	36.94	204,572.51

PAWC - Water Operations
Water Operations
307.00 Wells and Springs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2003	144,275.25	55.00	2,623.18	37.52	98,411.69
2004	992,896.65	55.00	18,052.65	38.11	687,915.10
2005	2,656.44	55.00	48.30	38.70	1,869.34
2006	231,131.79	55.00	4,202.39	39.31	165,192.79
2007	502,115.51	55.00	9,129.37	39.92	364,473.35
2008	311,828.77	55.00	5,669.61	40.54	229,870.54
2009	8,573.91	55.00	155.89	41.18	6,419.02
2010	274,129.70	55.00	4,984.17	41.82	208,433.00
2011	339,764.18	55.00	6,177.53	42.47	262,367.37
2012	103,715.77	55.00	1,885.74	43.13	81,339.91
2013	217,566.75	55.00	3,955.76	43.81	173,295.34
2014	173,233.36	55.00	3,149.70	44.49	140,138.64
2015	1,153,991.75	55.00	20,981.65	45.19	948,205.80
2016	83,509.85	55.00	1,518.36	45.90	69,700.10
2017	28,746.62	55.00	522.67	46.63	24,372.81
2018	120,560.07	55.00	2,192.00	47.37	103,843.32
2019	136,512.89	55.00	2,482.05	48.13	119,459.23
2020	262,149.07	55.00	4,766.34	48.91	233,101.79
2021	186,021.65	55.00	3,382.21	49.70	168,099.76
2022	1,580,320.53	55.00	28,733.08	50.52	1,451,509.30
2023	297,050.29	55.00	5,400.91	51.36	277,365.24
2024	63,501.73	55.00	1,154.58	52.22	60,290.10
2025	1,372,071.88	55.00	24,946.74	53.11	1,324,820.30
Total	14,667,329.25	49.18	266,182.94	39.35	10,473,763.47

Composite Average Remaining Life ... 39.35 Years

PAWC - Water Operations
Water Operations
310.00 Power Generation Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 45 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1931	3,609.84	0.00	0.00	0.00	0.00
1936	2,809.10	0.00	0.00	0.00	0.00
1937	4,520.24	0.00	0.00	0.00	0.00
1940	2,939.00	45.00	65.31	1.10	71.85
1944	1.00	45.00	0.02	2.47	0.05
1954	8,338.50	45.00	185.30	5.82	1,077.63
1957	1,178.00	45.00	26.18	6.83	178.82
1958	5,336.00	45.00	118.58	7.17	850.06
1959	107.00	45.00	2.38	7.51	17.86
1963	940.00	45.00	20.89	8.90	185.88
1965	6,019.00	45.00	133.76	9.61	1,284.95
1966	142.00	45.00	3.16	9.96	31.44
1967	7,319.00	45.00	162.64	10.32	1,679.12
1968	23,061.00	45.00	512.47	10.69	5,476.98
1969	45,202.40	45.00	1,004.50	11.05	11,103.99
1970	206.00	45.00	4.58	11.42	52.30
1972	7,872.85	45.00	174.95	12.17	2,129.80
1973	136.00	45.00	3.02	12.55	37.94
1974	52,315.00	45.00	1,162.56	12.94	15,041.92
1975	38,313.36	45.00	851.41	13.33	11,346.85
1980	25,076.66	45.00	557.26	15.33	8,545.20
1981	585.65	45.00	13.01	15.75	204.98
1982	11,137.43	45.00	247.50	16.17	4,002.42
1983	2,509.00	45.00	55.76	16.60	925.43
1991	39,570.00	45.00	879.33	20.23	17,789.83
1992	48,752.04	45.00	1,083.38	20.72	22,443.16
1993	23,243.53	45.00	516.52	21.21	10,954.60

PAWC - Water Operations
Water Operations
310.00 Power Generation Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 45 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1994	107,457.50	45.00	2,387.94	21.71	51,841.65
1995	1,076.42	45.00	23.92	22.22	531.48
1996	7,932.48	45.00	176.28	22.74	4,007.81
1997	1,040,121.31	45.00	23,113.80	23.26	537,668.51
1998	20,346.13	45.00	452.14	23.80	10,759.91
1999	250,124.14	45.00	5,558.31	24.34	135,304.42
2000	96,600.18	45.00	2,146.67	24.90	53,445.92
2001	3,572.21	45.00	79.38	25.46	2,021.20
2002	189,643.82	45.00	4,214.31	26.04	109,724.35
2003	241,761.04	45.00	5,372.47	26.62	143,032.74
2004	86,744.06	45.00	1,927.65	27.22	52,470.92
2005	261,676.97	45.00	5,815.04	27.83	161,823.97
2006	370,647.36	45.00	8,236.61	28.45	234,319.42
2007	106,124.17	45.00	2,358.31	29.08	68,585.62
2008	133,786.35	45.00	2,973.03	29.73	88,381.84
2009	129,823.10	45.00	2,884.96	30.39	87,662.91
2010	97,770.04	45.00	2,172.67	31.06	67,478.42
2011	401,064.15	45.00	8,912.53	31.74	282,913.27
2012	6,230,204.92	45.00	138,448.95	32.45	4,492,026.59
2013	5,465,954.46	45.00	121,465.62	33.16	4,027,846.90
2014	619,366.07	45.00	13,763.69	33.89	466,457.77
2015	609,698.44	45.00	13,548.85	34.64	469,278.50
2016	160,719.19	45.00	3,571.54	35.40	126,431.59
2017	266,682.99	45.00	5,926.29	36.18	214,404.48
2018	983,860.91	45.00	21,863.57	36.97	808,387.48
2019	344,429.87	45.00	7,653.99	37.79	289,222.41
2020	278,768.83	45.00	6,194.86	38.62	239,232.13

PAWC - Water Operations
Water Operations
310.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *45* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2021	193,906.93	45.00	4,309.04	39.47	170,076.60
2022	168,052.35	45.00	3,734.50	40.34	150,643.73
2023	5,452,340.43	45.00	121,163.08	41.23	4,995,138.63
2024	839,770.15	45.00	18,661.55	42.13	786,301.15
2025	1,604,430.51	45.00	35,654.00	43.07	1,535,502.53
Total	27,125,697.08	42.71	602,549.98	34.82	20,978,357.92

Composite Average Remaining Life ... 34.82 Years

PAWC - Water Operations
Water Operations
311.20 Pumping Equipment - Electric
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 39 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1957	5,617.81	39.00	144.05	2.97	427.38
1958	73.19	39.00	1.88	3.34	6.27
1974	4,935.66	39.00	126.55	9.56	1,210.36
1977	19,113.82	39.00	490.10	10.79	5,288.55
1978	18,893.54	39.00	484.45	11.21	5,428.35
1979	4,182.40	39.00	107.24	11.62	1,246.32
1980	429.63	39.00	11.02	12.04	132.65
1981	9,119.10	39.00	233.82	12.46	2,914.26
1982	1,035.64	39.00	26.55	12.89	342.26
1983	2,600.86	39.00	66.69	13.32	888.10
1984	1,382.95	39.00	35.46	13.75	487.53
1987	737.55	39.00	18.91	15.06	284.87
1988	1,478.21	39.00	37.90	15.51	587.81
1989	5,928.57	39.00	152.01	15.96	2,425.74
1990	10,264.88	39.00	263.20	16.41	4,319.20
1991	9,018.73	39.00	231.25	16.87	3,900.54
1992	65,795.88	39.00	1,687.06	17.33	29,234.24
1993	20,179.72	39.00	517.43	17.79	9,207.16
1995	9,481.05	39.00	243.10	18.74	4,555.58
1996	118,684.33	39.00	3,043.17	19.22	58,487.82
1997	16,610.34	39.00	425.90	19.70	8,392.18
1998	14,935.98	39.00	382.97	20.20	7,734.15
1999	2,589.25	39.00	66.39	20.69	1,373.70
2000	1,853.83	39.00	47.53	21.19	1,007.41
2001	42,173.71	39.00	1,081.37	21.70	23,467.47
2002	43,896.58	39.00	1,125.55	22.22	25,006.02
2003	1,020,380.85	39.00	26,163.47	22.74	594,905.82

PAWC - Water Operations
Water Operations
311.20 Pumping Equipment - Electric
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2004	151,570.05	39.00	3,886.39	23.27	90,425.93
2005	354,242.64	39.00	9,083.10	23.80	216,213.58
2006	2,810,565.65	39.00	72,065.40	24.35	1,754,649.49
2007	47,643.09	39.00	1,221.61	24.90	30,419.41
2008	264,715.19	39.00	6,787.53	25.46	172,825.16
2009	38,525.06	39.00	987.82	26.03	25,716.32
2010	58,424.20	39.00	1,498.05	26.61	39,868.46
2011	116,972.06	39.00	2,999.27	27.21	81,596.48
2012	908,486.10	39.00	23,294.39	27.81	647,773.29
2013	343,343.55	39.00	8,803.63	28.42	250,216.49
2014	4,345,069.32	39.00	111,411.43	29.05	3,236,420.21
2015	359,752.73	39.00	9,224.38	29.69	273,862.68
2016	550,567.37	39.00	14,117.04	30.34	428,374.94
2017	145,080.54	39.00	3,719.99	31.01	115,372.10
2018	1,680,756.98	39.00	43,096.10	31.70	1,366,243.30
2019	856,766.90	39.00	21,968.26	32.41	711,912.47
2020	2,203,367.65	39.00	56,496.30	33.13	1,871,890.95
2021	1,485,623.92	39.00	38,092.72	33.88	1,290,606.67
2022	59,497.17	39.00	1,525.56	34.65	52,861.78
2023	1,019,498.64	39.00	26,140.85	35.45	926,676.64
2024	78,588.24	39.00	2,015.07	36.28	73,097.74
2025	2,008,400.67	39.00	51,497.18	37.14	1,912,564.18
2026	6,729,397.15	39.00	172,547.72	38.04	6,563,679.74
2027	1,286,049.17	39.00	32,975.44	38.75	1,277,843.77

PAWC - Water Operations
Water Operations
311.20 Pumping Equipment - Electric
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	29,354,298.10	39.00	752,670.26	32.16	24,204,373.52

Composite Average Remaining Life ... *32.16 Years*

PAWC - Water Operations
Water Operations
311.50 Pumping Equipment - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 39 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1990	835.56	39.00	21.42	16.41	351.58
1995	327.64	39.00	8.40	18.74	157.43
1998	1,142.97	39.00	29.31	20.20	591.85
1999	5,033.00	39.00	129.05	20.69	2,670.20
2000	143,232.96	39.00	3,672.62	21.19	77,835.73
2003	3,570.35	39.00	91.55	22.74	2,081.60
2004	35,469.10	39.00	909.46	23.27	21,160.69
2005	81,156.00	39.00	2,080.91	23.80	49,533.93
2006	48,612.53	39.00	1,246.47	24.35	30,349.03
2007	5,154.10	39.00	132.16	24.90	3,290.82
2010	60,727.52	39.00	1,557.11	26.61	41,440.24
2011	110,586.36	39.00	2,835.53	27.21	77,142.00
2012	1,828.67	39.00	46.89	27.81	1,303.89
2013	616,579.49	39.00	15,809.65	28.42	449,341.05
2014	7,545.93	39.00	193.48	29.05	5,620.58
2016	67,628.81	39.00	1,734.06	30.34	52,619.33
2017	8,642.12	39.00	221.59	31.01	6,872.46
2018	6,217.00	39.00	159.41	31.70	5,053.64
2019	645,916.50	39.00	16,561.87	32.41	536,710.76
2020	2,479,299.67	39.00	63,571.44	33.13	2,106,311.50
2021	2,468,926.62	39.00	63,305.47	33.88	2,144,831.63
2022	4,852,299.21	39.00	124,417.26	34.65	4,311,148.84
2023	6,074,300.97	39.00	155,750.47	35.45	5,521,255.84
2024	6,303,033.66	39.00	161,615.38	36.28	5,862,677.37
2025	4,165,389.75	39.00	106,804.29	37.14	3,966,626.46
2026	3,257,511.73	39.00	83,525.49	38.04	3,177,292.60
2027	1,052,755.64	39.00	26,993.59	38.75	1,046,038.73

PAWC - Water Operations
Water Operations
311.50 Pumping Equipment - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	32,503,723.86	39.00	833,424.33	35.40	29,500,309.76

Composite Average Remaining Life ... 35.40 Years

PAWC - Water Operations
Water Operations
311.52 Pumping Equipment - SOS

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1995	500.74	39.00	12.84	18.74	240.60
1997	242.21	39.00	6.21	19.70	122.37
2007	302,979.30	39.00	7,768.66	24.90	193,447.79
2008	106,545.19	39.00	2,731.91	25.46	69,560.38
2009	90,997.69	39.00	2,333.26	26.03	60,742.95
2010	665,309.01	39.00	17,059.11	26.61	454,004.43
2011	673,316.56	39.00	17,264.43	27.21	469,687.06
2012	213,917.90	39.00	5,485.04	27.81	152,528.81
2013	1,167,611.55	39.00	29,938.60	28.42	850,913.49
2014	1,470,086.74	39.00	37,694.33	29.05	1,094,992.53
2015	1,333,851.63	39.00	34,201.14	29.69	1,015,397.94
2016	1,650,181.56	39.00	42,312.12	30.34	1,283,941.73
2017	2,025,413.90	39.00	51,933.41	31.01	1,610,665.73
2018	970,045.83	39.00	24,872.84	31.70	788,524.83
2019	325,033.26	39.00	8,334.14	32.41	270,079.56
2020	119,694.64	39.00	3,069.08	33.13	101,687.67
2021	268,274.05	39.00	6,878.78	33.88	233,057.82
2023	21,622.78	39.00	554.43	35.45	19,654.10
Total	11,405,624.54	39.00	292,450.34	29.64	8,669,249.80

Composite Average Remaining Life ... 29.64 Years

PAWC - Water Operations
Water Operations
311.53 Pumping Equipment - Water Treatment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 39 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1910	137.73	0.00	0.00	0.00	0.00
1917	133.00	0.00	0.00	0.00	0.00
1919	8,727.40	0.00	0.00	0.00	0.00
1928	134.45	0.00	0.00	0.00	0.00
1929	274.09	0.00	0.00	0.00	0.00
1930	10.36	0.00	0.00	0.00	0.00
1931	3,609.84	0.00	0.00	0.00	0.00
1937	1,084.39	0.00	0.00	0.00	0.00
1939	195.67	0.00	0.00	0.00	0.00
1941	233.57	0.00	0.00	0.00	0.00
1942	901.65	0.00	0.00	0.00	0.00
1944	22.40	0.00	0.00	0.00	0.00
1945	612.26	0.00	0.00	0.00	0.00
1946	36.51	0.00	0.00	0.00	0.00
1947	175.93	0.00	0.00	0.00	0.00
1948	1,721.87	0.00	0.00	0.00	0.00
1950	176.72	39.00	4.53	0.50	2.27
1951	14,946.31	39.00	383.24	0.81	309.35
1952	33,162.46	39.00	850.31	1.14	972.17
1953	14,955.45	39.00	383.47	1.50	576.73
1954	9,781.62	39.00	250.81	1.86	466.94
1955	2,307.03	39.00	59.15	2.23	131.99
1956	984.21	39.00	25.24	2.60	65.52
1957	15,308.52	39.00	392.52	2.97	1,164.61
1958	2,821.39	39.00	72.34	3.34	241.73
1959	30,581.95	39.00	784.15	3.72	2,913.49
1960	74,879.69	39.00	1,919.98	4.09	7,859.66

PAWC - Water Operations
Water Operations
311.53 Pumping Equipment - Water Treatment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 39 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1961	172,778.06	39.00	4,430.18	4.47	19,807.39
1962	3,846.01	39.00	98.62	4.85	478.54
1963	21,459.38	39.00	550.24	5.23	2,879.67
1964	32,655.26	39.00	837.31	5.62	4,704.60
1965	199,549.50	39.00	5,116.63	6.00	30,715.87
1966	11,660.13	39.00	298.98	6.39	1,910.56
1967	28,880.66	39.00	740.53	6.78	5,021.10
1968	95,517.72	39.00	2,449.16	7.17	17,563.86
1969	307,919.76	39.00	7,895.34	7.57	59,731.78
1970	5,567.23	39.00	142.75	7.96	1,136.33
1971	51,979.05	39.00	1,332.79	8.36	11,140.21
1972	423,176.07	39.00	10,850.61	8.76	95,026.15
1973	5,691,249.88	39.00	145,928.70	9.16	1,336,627.08
1974	22,347.74	39.00	573.02	9.56	5,480.30
1975	112,278.57	39.00	2,878.92	9.97	28,703.74
1976	70,968.42	39.00	1,819.69	10.38	18,887.73
1977	19,388.63	39.00	497.14	10.79	5,364.59
1978	9,787.72	39.00	250.97	11.21	2,812.14
1979	173,726.38	39.00	4,454.50	11.62	51,768.98
1980	146,097.95	39.00	3,746.08	12.04	45,108.51
1981	505,230.20	39.00	12,954.55	12.46	161,460.29
1982	684,624.45	39.00	17,554.38	12.89	226,254.90
1983	229,348.41	39.00	5,880.70	13.32	78,314.64
1984	311,320.96	39.00	7,982.55	13.75	109,749.05
1985	643,142.22	39.00	16,490.74	14.18	233,895.47
1986	407,620.75	39.00	10,451.76	14.62	152,820.29
1987	667,775.86	39.00	17,122.37	15.06	257,916.65

PAWC - Water Operations
Water Operations
311.53 Pumping Equipment - Water Treatment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 39 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1988	283,751.47	39.00	7,275.64	15.51	112,833.19
1989	418,946.17	39.00	10,742.15	15.96	171,416.55
1990	4,401,706.59	39.00	112,863.66	16.41	1,852,124.80
1991	1,019,819.94	39.00	26,149.09	16.87	441,064.90
1992	985,449.05	39.00	25,267.79	17.33	437,851.91
1993	1,214,131.28	39.00	31,131.40	17.79	553,957.42
1994	342,251.03	39.00	8,775.62	18.26	160,279.85
1995	3,082,931.12	39.00	79,049.09	18.74	1,481,328.05
1996	1,060,183.76	39.00	27,184.05	19.22	522,460.18
1997	3,345,175.84	39.00	85,773.28	19.70	1,690,110.92
1998	1,034,657.53	39.00	26,529.54	20.20	535,766.65
1999	3,189,091.46	39.00	81,771.14	20.69	1,691,938.26
2000	2,409,237.91	39.00	61,775.00	21.19	1,309,229.39
2001	2,395,199.84	39.00	61,415.05	21.70	1,332,803.81
2002	1,311,520.09	39.00	33,628.54	22.22	747,117.44
2003	2,219,803.79	39.00	56,917.74	22.74	1,294,197.36
2004	383,622.14	39.00	9,836.41	23.27	228,867.03
2005	64,788.35	39.00	1,661.23	23.80	39,543.86
2006	234,701.03	39.00	6,017.94	24.35	146,524.97
2007	1,472,539.40	39.00	37,757.22	24.90	940,194.58
2008	315,637.75	39.00	8,093.23	25.46	206,071.08
2009	166,046.08	39.00	4,257.57	26.03	110,839.39
2010	222,616.68	39.00	5,708.09	26.61	151,912.81
2011	329,273.84	39.00	8,442.87	27.21	229,692.35
2012	460,640.66	39.00	11,811.24	27.81	328,448.30
2013	203,020.58	39.00	5,205.63	28.42	147,954.13
2014	121,523.26	39.00	3,115.96	29.05	90,516.47

PAWC - Water Operations
Water Operations
311.53 Pumping Equipment - Water Treatment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2015	386,471.90	39.00	9,909.48	29.69	294,202.71
2016	297,614.05	39.00	7,631.09	30.34	231,561.85
2017	66,657.04	39.00	1,709.15	31.01	53,007.54
2018	891,894.73	39.00	22,868.97	31.70	724,997.85
2019	112,378.15	39.00	2,881.48	32.41	93,378.26
2020	142,298.54	39.00	3,648.66	33.13	120,891.01
2021	438,896.41	39.00	11,253.69	33.88	381,282.66
2022	118,121.94	39.00	3,028.75	34.65	104,948.45
2023	587,754.33	39.00	15,070.54	35.45	534,241.23
2024	25,792.73	39.00	661.35	36.28	23,990.74
2025	1,130,062.20	39.00	28,975.80	37.14	1,076,138.10
Total	48,154,022.10	32.22	1,234,250.05	19.10	23,573,670.92

Composite Average Remaining Life ... 19.10 Years

PAWC - Water Operations
Water Operations
311.54 Pumping Equipment - Transmission
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1999	35,292.32	39.00	904.93	20.69	18,723.96
2000	475,480.08	39.00	12,191.73	21.19	258,385.65
2001	36,531.40	39.00	936.70	21.70	20,327.82
2002	538,352.70	39.00	13,803.84	22.22	306,676.73
2003	70,588.30	39.00	1,809.95	22.74	41,154.62
2004	268,409.81	39.00	6,882.27	23.27	160,131.94
2005	16,038.24	39.00	411.23	23.80	9,789.01
2006	189,538.24	39.00	4,859.93	24.35	118,329.62
2007	1,098,486.35	39.00	28,166.17	24.90	701,367.25
2008	658,548.44	39.00	16,885.77	25.46	429,947.89
2009	1,314,447.17	39.00	33,703.59	26.03	877,422.25
2010	291,357.56	39.00	7,470.67	26.61	198,821.33
2011	161,831.12	39.00	4,149.49	27.21	112,888.93
2012	145,779.02	39.00	3,737.90	27.81	103,944.08
2013	243,526.60	39.00	6,244.24	28.42	177,473.47
2015	53,358.27	39.00	1,368.15	29.69	40,619.12
2016	287,116.14	39.00	7,361.91	30.34	223,393.84
2017	135,483.94	39.00	3,473.93	31.01	107,740.61
2018	157,143.96	39.00	4,029.31	31.70	127,738.21
2019	27,912.06	39.00	715.69	32.41	23,192.94
2020	81,516.58	39.00	2,090.16	33.13	69,253.15
2021	3,000.02	39.00	76.92	33.88	2,606.21
2022	48,563.86	39.00	1,245.22	34.65	43,147.80
2023	2,922,287.54	39.00	74,930.05	35.45	2,656,222.87
2024	28,865.32	39.00	740.13	36.28	26,848.67
2025	543,332.19	39.00	13,931.52	37.14	517,405.57

PAWC - Water Operations
Water Operations
311.54 Pumping Equipment - Transmission
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	9,832,787.23	39.00	252,121.39	29.25	7,373,553.54

Composite Average Remaining Life ... 29.25 Years

PAWC - Water Operations
Water Operations
320.10 Purification System - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1900	14,836.59	0.00	0.00	0.00	0.00
1906	1,384.00	0.00	0.00	0.00	0.00
1907	187.12	0.00	0.00	0.00	0.00
1909	3,521.00	0.00	0.00	0.00	0.00
1910	1,630.96	0.00	0.00	0.00	0.00
1920	2.00	0.00	0.00	0.00	0.00
1921	42,429.29	0.00	0.00	0.00	0.00
1924	1,765.00	0.00	0.00	0.00	0.00
1927	254.95	0.00	0.00	0.00	0.00
1928	129.00	50.00	2.58	0.50	1.29
1929	42,469.93	50.00	849.40	0.64	545.85
1931	5,319.00	50.00	106.38	1.11	118.60
1935	11.26	50.00	0.23	2.17	0.49
1947	278.00	50.00	5.56	5.58	31.04
1949	13,578.96	50.00	271.58	6.18	1,679.67
1952	50.61	50.00	1.01	7.11	7.20
1954	493.00	50.00	9.86	7.74	76.30
1956	179.54	50.00	3.59	8.38	30.09
1957	787.21	50.00	15.74	8.71	137.06
1958	606.41	50.00	12.13	9.03	109.57
1959	26,258.68	50.00	525.17	9.37	4,919.09
1961	80,917.78	50.00	1,618.36	10.04	16,250.82
1962	5,481.82	50.00	109.64	10.38	1,138.52
1963	3,005.76	50.00	60.12	10.73	645.11
1964	977.76	50.00	19.56	11.08	216.71
1965	219,097.73	50.00	4,381.95	11.44	50,114.00
1966	310.40	50.00	6.21	11.80	73.22

PAWC - Water Operations
Water Operations
320.10 Purification System - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 *Survivor Curve:* S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1967	148.24	50.00	2.96	12.16	36.05
1968	2,578.54	50.00	51.57	12.53	645.96
1969	1,371,104.67	50.00	27,422.09	12.90	353,679.78
1970	4,509.88	50.00	90.20	13.27	1,197.31
1971	359.30	50.00	7.19	13.66	98.13
1972	821,739.01	50.00	16,434.78	14.04	230,780.16
1973	30,712.90	50.00	614.26	14.43	8,866.06
1974	84.31	50.00	1.69	14.83	25.01
1975	159,756.91	50.00	3,195.14	15.23	48,671.72
1976	23,426.13	50.00	468.52	15.64	7,328.21
1977	915.82	50.00	18.32	16.05	294.07
1979	6,225.74	50.00	124.51	16.90	2,104.43
1980	1,374.20	50.00	27.48	17.33	476.40
1981	8,541.92	50.00	170.84	17.77	3,036.29
1982	2,891,214.73	50.00	57,824.29	18.22	1,053,500.93
1983	134,952.93	50.00	2,699.06	18.67	50,397.43
1984	5,629.18	50.00	112.58	19.13	2,154.04
1985	1,642,170.14	50.00	32,843.40	19.60	643,762.15
1986	185,615.98	50.00	3,712.32	20.08	74,532.08
1987	27,643.92	50.00	552.88	20.56	11,367.77
1988	5,166,890.45	50.00	103,337.81	21.05	2,175,628.49
1989	3,534,251.67	50.00	70,685.03	21.55	1,523,595.34
1990	18,102,018.39	50.00	362,040.36	22.06	7,988,352.03
1991	5,125,094.78	50.00	102,501.89	22.58	2,314,919.26
1992	10,124,512.86	50.00	202,490.25	23.11	4,680,171.13
1993	23,934,250.37	50.00	478,685.00	23.65	11,321,785.21
1994	1,782,077.58	50.00	35,641.55	24.20	862,555.31

PAWC - Water Operations
Water Operations
320.10 Purification System - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1995	4,832,185.62	50.00	96,643.71	24.76	2,392,932.65
1996	377,985.13	50.00	7,559.70	25.33	191,492.93
1997	9,236,235.56	50.00	184,724.71	25.91	4,786,656.92
1998	909,695.21	50.00	18,193.90	26.51	482,240.18
1999	9,758,668.73	50.00	195,173.37	27.11	5,291,296.87
2000	354,819.32	50.00	7,096.39	27.73	196,770.26
2001	1,104,340.71	50.00	22,086.81	28.36	626,346.94
2003	2,316.85	50.00	46.34	29.66	1,374.28
2004	38,706.38	50.00	774.13	30.33	23,478.41
2005	80,991.72	50.00	1,619.83	31.01	50,236.87
2006	5,577,814.71	50.00	111,556.29	31.71	3,537,769.27
2007	172,531.96	50.00	3,450.64	32.43	111,894.10
2008	552,727.09	50.00	11,054.54	33.16	366,530.30
2009	589,159.36	50.00	11,783.19	33.90	399,468.86
2010	371,618.85	50.00	7,432.38	34.66	257,625.10
2011	9,820,334.80	50.00	196,406.69	35.44	6,960,588.43
2012	19,590,099.99	50.00	391,801.99	36.23	14,196,234.89
2013	3,631,023.44	50.00	72,620.47	37.04	2,690,101.43
2014	2,099,707.76	50.00	41,994.15	37.87	1,590,323.79
2016	562,914.51	50.00	11,258.29	39.57	445,536.86
2017	368,747.99	50.00	7,374.96	40.45	298,325.72
2018	46,772,984.44	50.00	935,459.67	41.34	38,676,252.75
2019	1,284,580.07	50.00	25,691.60	42.25	1,085,578.53
2021	12,889,604.34	50.00	257,792.08	44.12	11,373,629.97
2022	144,098.02	50.00	2,881.96	45.07	129,899.71
2023	15,611,823.74	50.00	312,236.47	46.04	14,375,428.53
2024	49,463.77	50.00	989.28	47.02	46,514.09

PAWC - Water Operations
Water Operations
320.10 Purification System - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2025	12,669,310.41	50.00	253,386.20	48.01	12,164,057.72
2026	13,689,941.20	50.00	273,798.82	49.00	13,416,379.40
2027	44,430,837.35	50.00	888,616.73	49.75	44,208,459.95
Total	293,129,033.34	44.64	5,861,260.34	36.48	213,809,481.04

Composite Average Remaining Life ... 36.48 Years

PAWC - Water Operations
Water Operations
320.11 Purification System - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1953	7,055.41	50.00	141.11	7.42	1,047.27
1954	8,210.70	50.00	164.21	7.74	1,270.70
1955	9,385.40	50.00	187.71	8.06	1,512.44
1956	11,057.33	50.00	221.15	8.38	1,853.18
1957	5,382.78	50.00	107.66	8.71	937.19
1958	66,539.30	50.00	1,330.79	9.03	12,022.79
1959	8,175.25	50.00	163.50	9.37	1,531.48
1960	5,799.28	50.00	115.99	9.70	1,125.33
1961	147.26	50.00	2.95	10.04	29.57
1962	6,509.57	50.00	130.19	10.38	1,351.97
1963	310.10	50.00	6.20	10.73	66.55
1964	1,453.42	50.00	29.07	11.08	322.13
1965	6,998.03	50.00	139.96	11.44	1,600.65
1966	1,670.07	50.00	33.40	11.80	393.98
1967	5,928.00	50.00	118.56	12.16	1,441.48
1968	436.82	50.00	8.74	12.53	109.43
1969	18,030.17	50.00	360.60	12.90	4,650.93
1970	822.59	50.00	16.45	13.27	218.39
1971	1,688.64	50.00	33.77	13.66	461.19
1972	26,138.75	50.00	522.77	14.04	7,340.90
1973	225,989.13	50.00	4,519.78	14.43	65,237.53
1974	128.42	50.00	2.57	14.83	38.09
1975	9,465.41	50.00	189.31	15.23	2,883.74
1976	1,555.09	50.00	31.10	15.64	486.47
1977	2,358.22	50.00	47.16	16.05	757.22
1978	11,163.75	50.00	223.27	16.47	3,678.43
1979	5,020.55	50.00	100.41	16.90	1,697.05

PAWC - Water Operations
Water Operations
320.11 Purification System - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1980	3,044.35	50.00	60.89	17.33	1,055.39
1981	4,512.29	50.00	90.25	17.77	1,603.93
1982	15,060.48	50.00	301.21	18.22	5,487.74
1983	84,466.86	50.00	1,689.34	18.67	31,543.68
1984	34,749.27	50.00	694.99	19.13	13,297.01
1985	327,526.33	50.00	6,550.53	19.60	128,396.59
1986	365,793.08	50.00	7,315.86	20.08	146,880.24
1987	32,910.13	50.00	658.20	20.56	13,533.35
1988	110,808.09	50.00	2,216.16	21.05	46,658.09
1989	574,911.87	50.00	11,498.24	21.55	247,841.16
1990	356,708.15	50.00	7,134.16	22.06	157,413.95
1991	110,453.31	50.00	2,209.07	22.58	49,889.91
1992	61.17	50.00	1.22	23.11	28.28
1993	3,727.98	50.00	74.56	23.65	1,763.47
1994	797,347.87	50.00	15,946.96	24.20	385,929.68
1995	25,382.09	50.00	507.64	24.76	12,569.39
1996	489,121.46	50.00	9,782.43	25.33	247,796.26
1997	139,585.89	50.00	2,791.72	25.91	72,340.05
1998	473.79	50.00	9.48	26.51	251.16
1999	23.05	50.00	0.46	27.11	12.50
2000	1,045.99	50.00	20.92	27.73	580.07
2001	699.48	50.00	13.99	28.36	396.72
2002	746,231.18	50.00	14,924.62	29.00	432,838.79
2003	168,655.47	50.00	3,373.11	29.66	100,040.87
2004	22,417.11	50.00	448.34	30.33	13,597.71
2005	39,277.86	50.00	785.56	31.01	24,362.94
2006	435,263.67	50.00	8,705.27	31.71	276,069.13

PAWC - Water Operations
Water Operations
320.11 Purification System - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2007	314,674.62	50.00	6,293.49	32.43	204,079.48
2008	240,770.18	50.00	4,815.40	33.16	159,662.10
2009	276,207.99	50.00	5,524.16	33.90	187,277.84
2010	1,772.42	50.00	35.45	34.66	1,228.73
2011	103,642.11	50.00	2,072.84	35.44	73,460.84
2012	1,245,479.31	50.00	24,909.59	36.23	902,553.68
2013	848,184.88	50.00	16,963.70	37.04	628,391.25
2014	257,350.31	50.00	5,147.01	37.87	194,917.75
2016	135,115.49	50.00	2,702.31	39.57	106,941.52
2017	231,980.84	50.00	4,639.62	40.45	187,677.91
2018	1,122,458.05	50.00	22,449.16	41.34	928,152.69
2019	1,936,349.67	50.00	38,726.99	42.25	1,636,378.83
2020	684,028.65	50.00	13,680.57	43.18	590,718.47
2021	1,723,091.03	50.00	34,461.82	44.12	1,520,434.55
2023	152,104.23	50.00	3,042.08	46.04	140,058.17
2026	3,398,229.10	50.00	67,964.58	49.00	3,330,323.35
2027	3,168,938.21	50.00	63,378.76	49.75	3,153,077.60
Total	21,178,054.80	50.00	423,561.09	38.89	16,471,578.94

Composite Average Remaining Life ... 38.89 Years

PAWC - Water Operations
Water Operations
320.20 Chemical Treatment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *42* ***Survivor Curve:*** *R0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1973	242,489.01	42.00	5,773.47	12.75	73,615.10
1974	31,941.16	42.00	760.49	13.17	10,018.13
1975	42,769.93	42.00	1,018.32	13.60	13,849.41
1976	1,073,863.59	42.00	25,567.85	14.03	358,757.92
1977	28,840.00	42.00	686.66	14.47	9,934.25
1978	51,727.94	42.00	1,231.60	14.91	18,360.92
1979	20,509.89	42.00	488.32	15.35	7,497.58
1980	61,671.01	42.00	1,468.34	15.80	23,205.76
1981	192,581.16	42.00	4,585.21	16.26	74,553.29
1982	7,527.22	42.00	179.22	16.72	2,996.59
1983	79,951.11	42.00	1,903.57	17.19	32,715.52
1984	292,693.25	42.00	6,968.80	17.66	123,054.64
1985	978,744.46	42.00	23,303.14	18.13	422,595.30
1986	2,083,104.19	42.00	49,597.07	18.62	923,338.34
1987	719,004.40	42.00	17,118.93	19.10	327,055.50
1988	111,285.48	42.00	2,649.62	19.60	51,927.49
1989	1,052,756.10	42.00	25,065.29	20.10	503,741.81
1990	436,377.41	42.00	10,389.80	20.60	214,045.66
1991	706,070.04	42.00	16,810.97	21.11	354,899.76
1992	4,299,099.40	42.00	102,358.18	21.63	2,213,691.49
1993	99,614.98	42.00	2,371.75	22.15	52,528.60
1994	739,039.18	42.00	17,595.94	22.67	398,960.06
1995	4,638,977.20	42.00	110,450.40	23.21	2,563,030.40
1996	2,154,720.70	42.00	51,302.21	23.74	1,217,997.23
1997	3,334,739.32	42.00	79,397.52	24.28	1,928,048.96
1998	2,072,021.04	42.00	49,333.19	24.83	1,224,937.36
1999	7,194,288.92	42.00	171,290.36	25.38	4,347,499.28

PAWC - Water Operations
Water Operations
320.20 Chemical Treatment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 42 **Survivor Curve:** R0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2000	67,552.81	42.00	1,608.38	25.94	41,716.68
2001	2,457,933.54	42.00	58,521.46	26.50	1,550,653.17
2002	77,713.84	42.00	1,850.31	27.06	50,071.70
2003	1,964,206.88	42.00	46,766.22	27.63	1,292,162.11
2004	1,990,696.83	42.00	47,396.93	28.20	1,336,701.40
2005	2,161,553.64	42.00	51,464.89	28.78	1,481,074.89
2006	499,472.13	42.00	11,892.04	29.36	349,118.82
2007	1,947,345.46	42.00	46,364.76	29.94	1,388,129.48
2008	1,350,615.98	42.00	32,157.10	30.52	981,584.77
2009	82,919.55	42.00	1,974.25	31.11	61,423.09
2010	438,539.91	42.00	10,441.29	31.70	331,012.42
2011	1,033,930.77	42.00	24,617.08	32.29	794,990.64
2012	685,575.24	42.00	16,323.01	32.89	536,832.85
2013	1,516,285.09	42.00	36,101.56	33.48	1,208,826.64
2014	304,829.68	42.00	7,257.75	34.08	247,353.70
2015	3,645,945.28	42.00	86,807.09	34.68	3,010,464.82
2016	4,980,688.04	42.00	118,586.27	35.28	4,183,784.20
2017	2,403,250.89	42.00	57,219.51	35.88	2,053,163.84
2018	1,114,876.03	42.00	26,544.32	36.49	968,492.62
2019	3,459,004.02	42.00	82,356.17	37.09	3,054,669.74
2020	7,834,644.60	42.00	186,536.73	37.70	7,032,008.20
2021	11,081,791.67	42.00	263,848.75	38.31	10,107,178.52
2022	13,412,801.43	42.00	319,348.25	38.92	12,428,154.06
2023	17,240,492.29	42.00	410,482.56	39.53	16,226,216.86
2024	10,795,822.82	42.00	257,040.05	40.14	10,318,744.46
2025	37,804,284.62	42.00	900,090.29	40.76	36,688,536.94
2026	1,397,771.11	42.00	33,279.83	41.38	1,377,114.07

PAWC - Water Operations
Water Operations
320.20 Chemical Treatment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *42* ***Survivor Curve:*** *R0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2027	3,115,929.56	42.00	74,187.83	41.84	3,104,385.10
Total	167,612,881.80	42.00	3,990,730.91	35.01	139,697,422.15

Composite Average Remaining Life ... 35.01 Years

PAWC - Water Operations
Water Operations
320.30 Granular Activated Carbon
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 11 **Survivor Curve:** L0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1992	755.89	11.00	68.71	1.67	114.50
1994	3,127.19	11.00	284.25	1.93	548.56
1995	22,529.51	11.00	2,047.85	2.06	4,210.04
1996	19,021.10	11.00	1,728.95	2.17	3,756.67
1998	24,638.62	11.00	2,239.56	2.38	5,335.79
1999	9,019.00	11.00	819.79	2.48	2,035.70
2000	242,357.48	11.00	22,029.42	2.59	56,962.29
2001	565,915.16	11.00	51,439.64	2.70	138,732.59
2002	259,574.29	11.00	23,594.36	2.82	66,478.44
2003	11,549.71	11.00	1,049.83	2.95	3,095.79
2007	133,689.45	11.00	12,151.89	3.59	43,631.67
2008	22,525.60	11.00	2,047.50	3.78	7,740.12
2009	290,056.89	11.00	26,365.12	3.98	104,979.42
2010	252,059.62	11.00	22,911.31	4.20	96,113.35
2011	762,602.88	11.00	69,317.84	4.42	306,369.99
2012	382,409.40	11.00	34,759.63	4.66	161,888.71
2013	1,278,638.81	11.00	116,223.63	4.91	570,378.48
2014	648,647.47	11.00	58,959.70	5.17	304,875.17
2015	2,088.22	11.00	189.81	5.45	1,034.07
2016	110,250.14	11.00	10,021.34	5.74	57,513.93
2017	406,505.55	11.00	36,949.88	6.05	223,379.08
2018	1,504,916.77	11.00	136,791.48	6.37	871,038.15
2019	1,347,102.38	11.00	122,446.72	6.71	821,197.21
2020	874,697.64	11.00	79,506.84	7.06	561,574.70
2021	768,470.48	11.00	69,851.18	7.44	519,658.17
2022	3,315,089.96	11.00	301,329.66	7.85	2,365,561.27
2023	7,727,540.14	11.00	702,405.38	8.32	5,841,973.05

PAWC - Water Operations
Water Operations
320.30 Granular Activated Carbon

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *11* ***Survivor Curve:*** *L0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2024	2,226,099.32	11.00	202,344.36	8.86	1,791,827.18
2025	799,177.36	11.00	72,642.32	9.47	688,211.59
Total	24,011,056.03	11.00	2,182,517.92	7.16	15,620,215.68

Composite Average Remaining Life ... 7.16 Years

PAWC - Water Operations
Water Operations
320.37 Waste Handling and Treatment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *30* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1991	6,031,805.84	30.00	201,059.90	3.78	760,078.11
1997	591,680.33	30.00	19,722.65	6.06	119,494.73
1999	1,596,632.54	30.00	53,221.01	7.06	375,772.42
2000	699,453.00	30.00	23,315.07	7.61	177,382.43
2002	3,157.82	30.00	105.26	8.79	925.62
2003	255,901.42	30.00	8,530.03	9.43	80,418.54
2004	25,359.24	30.00	845.31	10.09	8,526.89
2005	13,973.57	30.00	465.78	10.77	5,017.89
2013	15,011.73	30.00	500.39	16.98	8,494.49
2014	585,331.37	30.00	19,511.02	17.83	347,881.67
2015	1,026,831.36	30.00	34,227.66	18.70	640,008.35
2016	3,706,337.79	30.00	123,544.41	19.58	2,419,177.60
2017	16,485.57	30.00	549.52	20.48	11,253.53
2023	749,793.89	30.00	24,993.09	26.10	652,266.13
2025	5,307,125.52	30.00	176,903.92	28.04	4,960,049.51
2026	10,000.00	30.00	333.33	29.02	9,672.29
Total	20,634,880.99	30.00	687,828.35	15.38	10,576,420.21

Composite Average Remaining Life ... 15.38 Years

PAWC - Water Operations
Water Operations
330.00 Distribution Reservoirs
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 65 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1906	5,109.66	65.00	78.61	3.17	249.59
1907	47,241.62	65.00	726.79	3.52	2,559.79
1911	21,098.83	65.00	324.60	4.86	1,576.96
1912	4,854.07	65.00	74.68	5.20	388.08
1922	37,387.44	65.00	575.19	8.55	4,916.49
1923	14,226.55	65.00	218.87	8.88	1,943.74
1924	1,157.77	65.00	17.81	9.22	164.18
1929	2,414.86	65.00	37.15	10.92	405.79
1931	5,386.24	65.00	82.87	11.61	962.22
1933	64.84	65.00	1.00	12.31	12.28
1935	288.99	65.00	4.45	13.01	57.83
1938	6,784.14	65.00	104.37	14.07	1,468.52
1940	15,662.18	65.00	240.96	14.79	3,563.51
1941	8,303.02	65.00	127.74	15.15	1,935.31
1943	64.86	65.00	1.00	15.88	15.85
1949	20,278.60	65.00	311.98	18.13	5,656.44
1950	11,200.00	65.00	172.31	18.51	3,190.17
1951	84,442.64	65.00	1,299.12	18.90	24,554.90
1952	1,053.28	65.00	16.20	19.29	312.59
1953	765,700.78	65.00	11,780.00	19.68	231,864.00
1954	134,575.67	65.00	2,070.39	20.08	41,568.88
1955	58,990.21	65.00	907.54	20.48	18,583.13
1956	48,644.49	65.00	748.38	20.88	15,624.22
1957	84,452.90	65.00	1,299.27	21.28	27,651.67
1958	76,240.83	65.00	1,172.93	21.69	25,441.09
1959	166,796.84	65.00	2,566.10	22.10	56,715.06
1960	24,552.85	65.00	377.74	22.52	8,505.21

PAWC - Water Operations
Water Operations
330.00 Distribution Reservoirs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 65 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1961	401,183.97	65.00	6,172.06	22.93	141,554.55
1962	186,962.54	65.00	2,876.34	23.36	67,181.96
1963	15,157.25	65.00	233.19	23.78	5,545.81
1964	45,588.11	65.00	701.35	24.21	16,981.31
1965	55,626.04	65.00	855.78	24.65	21,091.49
1966	394,465.55	65.00	6,068.70	25.08	152,223.08
1967	806,984.51	65.00	12,415.13	25.53	316,899.06
1968	282,717.71	65.00	4,349.50	25.97	112,960.99
1969	84,335.85	65.00	1,297.47	26.42	34,281.33
1970	69,869.85	65.00	1,074.92	26.88	28,889.66
1971	407,403.58	65.00	6,267.74	27.34	171,333.69
1972	173,285.68	65.00	2,665.93	27.80	74,111.27
1973	3,532,689.75	65.00	54,349.02	28.27	1,536,374.67
1974	749,158.82	65.00	11,525.51	28.74	331,263.91
1975	390,034.66	65.00	6,000.53	29.22	175,342.35
1976	399,924.61	65.00	6,152.68	29.71	182,767.31
1977	199,610.20	65.00	3,070.92	30.19	92,723.95
1978	447,321.54	65.00	6,881.86	30.69	211,198.19
1979	304,051.08	65.00	4,677.70	31.19	145,891.64
1980	1,076.03	65.00	16.55	31.69	524.69
1981	54,623.64	65.00	840.36	32.21	27,064.64
1982	1,047,267.09	65.00	16,111.79	32.72	527,242.35
1983	1,394,266.63	65.00	21,450.24	33.25	713,150.62
1984	32,354.18	65.00	497.76	33.78	16,812.88
1985	1,752,002.99	65.00	26,953.87	34.31	924,853.61
1986	1,778,699.21	65.00	27,364.58	34.86	953,822.59
1987	240,248.85	65.00	3,696.13	35.40	130,858.61

PAWC - Water Operations
Water Operations
330.00 Distribution Reservoirs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1988	3,095,526.72	65.00	47,623.44	35.96	1,712,612.33
1989	5,055,328.77	65.00	77,774.22	36.53	2,840,715.23
1990	6,129,161.37	65.00	94,294.70	37.09	3,497,848.77
1991	675,140.24	65.00	10,386.76	37.67	391,301.66
1992	1,315,378.04	65.00	20,236.57	38.26	774,198.63
1993	7,639,604.37	65.00	117,532.27	38.85	4,566,246.23
1994	2,027,808.17	65.00	31,197.02	39.45	1,230,740.75
1995	1,585,876.37	65.00	24,398.08	40.06	977,392.52
1996	3,624,223.56	65.00	55,757.23	40.68	2,267,969.87
1997	2,280,357.49	65.00	35,082.39	41.30	1,448,981.20
1998	1,215,386.77	65.00	18,698.24	41.93	784,101.66
1999	5,099,721.28	65.00	78,457.18	42.58	3,340,590.68
2000	3,634,244.00	65.00	55,911.40	43.23	2,416,952.19
2001	5,032,730.61	65.00	77,426.55	43.89	3,398,300.47
2002	2,276,714.48	65.00	35,026.34	44.56	1,560,819.92
2003	2,410,479.28	65.00	37,084.26	45.24	1,677,694.98
2004	1,519,412.36	65.00	23,375.55	45.93	1,073,646.17
2005	3,825,628.33	65.00	58,855.77	46.63	2,744,359.38
2006	2,881,396.25	65.00	44,329.13	47.34	2,098,503.10
2007	1,534,816.04	65.00	23,612.53	48.06	1,134,763.95
2008	236,167.51	65.00	3,633.34	48.79	177,269.06
2009	24,836.32	65.00	382.10	49.53	18,924.96
2010	797,440.05	65.00	12,268.30	50.28	616,888.34
2011	249,853.14	65.00	3,843.89	51.04	196,210.72
2012	1,177,587.89	65.00	18,116.72	51.82	938,838.93
2013	4,260,578.06	65.00	65,547.29	52.61	3,448,195.75
2014	6,068,629.18	65.00	93,363.44	53.41	4,986,255.35

PAWC - Water Operations
Water Operations
330.00 Distribution Reservoirs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2015	376,780.65	65.00	5,796.62	54.22	314,283.99
2016	8,406,094.89	65.00	129,324.42	55.04	7,118,095.69
2017	5,265,669.74	65.00	81,010.23	55.88	4,526,636.44
2018	3,560,709.42	65.00	54,780.09	56.72	3,107,379.30
2019	3,422,777.21	65.00	52,658.06	57.59	3,032,445.07
2021	2,281,005.92	65.00	35,092.37	59.35	2,082,767.51
2022	2,653,783.47	65.00	40,827.40	60.25	2,459,922.43
2023	2,840,290.76	65.00	43,696.74	61.17	2,672,954.53
2024	6,704,284.79	65.00	103,142.75	62.10	6,405,195.14
2025	6,304,653.01	65.00	96,994.57	63.05	6,115,522.69
2026	15,435,420.79	65.00	237,467.80	64.01	15,200,797.31
2027	19,064,527.23	65.00	293,300.15	64.75	18,991,977.37
Total	168,883,908.61	65.00	2,598,211.61	50.01	129,941,133.93

Composite Average Remaining Life ... 50.01 Years

PAWC - Water Operations
Water Operations
330.10 Elevated Tanks

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1992	189,738.86	65.00	2,919.06	38.26	111,675.55
1994	0.01	65.00	0.00	39.45	0.01
2007	109,596.89	65.00	1,686.10	48.06	81,030.30
2008	452,291.74	65.00	6,958.33	48.79	339,493.49
2009	610,424.47	65.00	9,391.14	49.53	465,135.63
2010	876,241.28	65.00	13,480.62	50.28	677,847.85
2011	1.21	65.00	0.02	51.04	0.95
2012	70,427.57	65.00	1,083.50	51.82	56,148.80
2013	7,305,295.42	65.00	112,389.06	52.61	5,912,364.06
2014	402,306.06	65.00	6,189.32	53.41	330,552.53
2015	75,692.00	65.00	1,164.49	54.22	63,136.96
2017	22,485.50	65.00	345.93	55.88	19,329.67
2018	41,920.13	65.00	644.92	56.72	36,583.09
2019	3,889.76	65.00	59.84	57.59	3,446.17
2021	3,743,807.08	65.00	57,596.98	59.35	3,418,439.07
2023	73,266.92	65.00	1,127.18	61.17	68,950.39
2024	3,546,697.40	65.00	54,564.53	62.10	3,388,473.14
2026	574,619.17	65.00	8,840.29	64.01	565,884.77
Total	18,098,701.47	65.00	278,441.31	55.81	15,538,492.42

Composite Average Remaining Life ... 55.81 Years

PAWC - Water Operations
Water Operations
330.20 Ground Level Facilities

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2004	411,560.09	65.00	6,331.69	45.93	290,816.32
2007	729,975.76	65.00	11,230.39	48.06	539,706.49
2008	37,653.40	65.00	579.28	48.79	28,262.92
2009	21,769.28	65.00	334.91	49.53	16,587.91
2010	13,139.81	65.00	202.15	50.28	10,164.77
2011	261,613.14	65.00	4,024.81	51.04	205,445.90
2012	1,944,284.21	65.00	29,912.04	51.82	1,550,092.12
2013	5,126,495.63	65.00	78,869.09	52.61	4,149,005.18
2014	4,119,155.97	65.00	63,371.57	53.41	3,384,481.55
2015	141,079.99	65.00	2,170.46	54.22	117,679.03
2016	1,686,605.76	65.00	25,947.76	55.04	1,428,180.55
2017	150,532.79	65.00	2,315.89	55.88	129,405.61
2018	115,120.43	65.00	1,771.08	56.72	100,463.92
2019	33,498.57	65.00	515.36	57.59	29,678.41
2021	3,736,874.95	65.00	57,490.33	59.35	3,412,109.40
2023	129,755.90	65.00	1,996.24	61.17	122,111.31
2025	461,649.62	65.00	7,102.30	63.05	447,800.81
Total	19,120,765.30	65.00	294,165.35	54.26	15,961,992.20

Composite Average Remaining Life ... 54.26 Years

PAWC - Water Operations
Water Operations
330.30 Below Grade Facilities

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2007	173,959.09	65.00	2,676.29	48.06	128,616.39
2010	31,397.64	65.00	483.04	50.28	24,288.77
2011	100,934.51	65.00	1,552.84	51.04	79,264.29
2014	280,555.88	65.00	4,316.24	53.41	230,517.18
2016	231,860.11	65.00	3,567.08	55.04	196,334.03
Total	818,707.23	65.00	12,595.48	52.32	659,020.66

Composite Average Remaining Life ... 52.32 Years

PAWC - Water Operations
Water Operations
330.40 Clearwell

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1959	5,027.02	65.00	77.34	22.10	1,709.31
1977	63,020.50	65.00	969.55	30.19	29,274.60
1978	7,099.25	65.00	109.22	30.69	3,351.84
1986	137,509.65	65.00	2,115.53	34.86	73,739.17
1987	14,473.99	65.00	222.68	35.40	7,883.68
2012	12,757,639.44	65.00	196,271.20	51.82	10,171,103.74
2017	19,388.28	65.00	298.28	55.88	16,667.15
2018	32,046.45	65.00	493.02	56.72	27,966.47
2019	5,251.81	65.00	80.80	57.59	4,652.90
2020	24,652.20	65.00	379.26	58.46	22,172.13
2025	6,504,069.56	65.00	100,062.52	63.05	6,308,957.03
2026	100,000.02	65.00	1,538.46	64.01	98,479.99
Total	19,670,178.17	65.00	302,617.85	55.40	16,765,958.01

Composite Average Remaining Life ... 55.40 Years

PAWC - Water Operations
Water Operations
331.00 Mains and Accessories

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 90 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1901	144,146.78	90.00	1,601.63	11.50	18,421.89
1902	138,780.68	90.00	1,542.01	11.80	18,199.92
1903	240,460.12	90.00	2,671.78	12.11	32,343.08
1904	75,565.46	90.00	839.62	12.41	10,419.85
1905	402,308.59	90.00	4,470.09	12.72	56,847.91
1906	235,011.70	90.00	2,611.24	13.02	33,996.83
1907	1,415,969.60	90.00	15,732.97	13.33	209,742.29
1908	418,101.53	90.00	4,645.57	13.65	63,395.64
1909	278,448.34	90.00	3,093.87	13.96	43,205.58
1910	235,204.23	90.00	2,613.38	14.29	37,337.01
1911	124,585.96	90.00	1,384.29	14.61	20,227.98
1912	219,538.56	90.00	2,439.31	14.94	36,448.61
1913	85,592.40	90.00	951.03	15.28	14,527.72
1914	398,878.73	90.00	4,431.98	15.61	69,200.01
1915	235,961.43	90.00	2,621.79	15.95	41,824.10
1916	1,009,243.48	90.00	11,213.80	16.30	182,778.53
1917	120,984.44	90.00	1,344.27	16.65	22,383.78
1918	70,831.01	90.00	787.01	17.01	13,385.58
1919	119,506.37	90.00	1,327.85	17.37	23,064.95
1920	234,850.42	90.00	2,609.45	17.74	46,285.18
1921	231,288.59	90.00	2,569.87	18.11	46,541.22
1922	203,713.78	90.00	2,263.48	18.49	41,848.80
1923	1,558,602.00	90.00	17,317.78	18.87	326,832.22
1924	849,894.21	90.00	9,443.26	19.26	181,894.75
1925	649,353.06	90.00	7,215.02	19.66	141,830.69
1926	1,283,985.77	90.00	14,266.49	20.06	286,178.86
1927	224,085.34	90.00	2,489.83	20.47	50,960.50

PAWC - Water Operations
Water Operations
331.00 Mains and Accessories

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 90 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1928	347,334.09	90.00	3,859.26	20.88	80,587.20
1929	183,116.29	90.00	2,034.62	21.30	43,341.09
1930	148,366.57	90.00	1,648.52	21.73	35,819.49
1931	218,822.25	90.00	2,431.35	22.16	53,881.76
1932	65,736.09	90.00	730.40	22.60	16,507.36
1933	37,680.84	90.00	418.68	23.05	9,649.55
1934	77,273.66	90.00	858.59	23.50	20,177.29
1935	130,869.23	90.00	1,454.10	23.96	34,839.39
1936	102,146.07	90.00	1,134.95	24.42	27,721.26
1937	162,080.68	90.00	1,800.89	24.90	44,837.06
1938	76,354.20	90.00	848.38	25.38	21,528.27
1939	157,361.44	90.00	1,748.46	25.86	45,216.86
1940	121,106.68	90.00	1,345.63	26.35	35,461.03
1941	113,644.36	90.00	1,262.71	26.85	33,905.24
1942	89,626.34	90.00	995.85	27.36	27,245.37
1943	77,423.59	90.00	860.26	27.87	23,976.35
1944	41,497.62	90.00	461.08	28.39	13,089.98
1945	225,743.50	90.00	2,508.26	28.91	72,525.35
1946	311,316.49	90.00	3,459.07	29.45	101,856.36
1947	275,224.41	90.00	3,058.04	29.98	91,693.06
1948	274,434.79	90.00	3,049.27	30.53	93,090.23
1949	116,988.68	90.00	1,299.87	31.08	40,399.45
1950	134,689.76	90.00	1,496.55	31.64	47,346.07
1951	427,677.00	90.00	4,751.96	32.20	153,032.14
1952	396,107.87	90.00	4,401.19	32.77	144,247.09
1953	924,340.36	90.00	10,270.43	33.35	342,532.80
1954	1,255,241.82	90.00	13,947.11	33.93	473,286.15

PAWC - Water Operations
Water Operations
331.00 Mains and Accessories

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 90 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1955	2,719,403.00	90.00	30,215.55	34.52	1,043,147.05
1956	1,448,560.90	90.00	16,095.10	35.12	565,240.81
1957	2,134,689.56	90.00	23,718.74	35.72	847,237.75
1958	1,837,291.51	90.00	20,414.32	36.33	741,602.88
1959	2,098,484.01	90.00	23,316.46	36.94	861,332.27
1960	2,803,729.87	90.00	31,152.51	37.56	1,170,213.18
1961	3,572,993.92	90.00	39,699.88	38.19	1,516,131.76
1962	1,386,480.71	90.00	15,405.32	38.82	598,057.06
1963	1,988,217.26	90.00	22,091.27	39.46	871,696.04
1964	4,773,468.40	90.00	53,038.46	40.10	2,126,944.66
1965	4,591,514.82	90.00	51,016.76	40.75	2,078,966.55
1966	3,924,298.57	90.00	43,603.26	41.40	1,805,392.15
1967	5,460,043.48	90.00	60,667.06	42.06	2,551,950.58
1968	5,408,195.66	90.00	60,090.98	42.73	2,567,698.89
1969	4,832,841.08	90.00	53,698.16	43.40	2,330,745.88
1970	3,717,790.65	90.00	41,308.73	44.08	1,820,944.51
1971	5,306,573.15	90.00	58,961.84	44.76	2,639,334.05
1972	8,105,168.39	90.00	90,057.30	45.45	4,093,172.01
1973	8,137,275.61	90.00	90,414.04	46.14	4,171,999.22
1974	4,841,267.29	90.00	53,791.78	46.84	2,519,657.21
1975	5,871,387.73	90.00	65,237.55	47.54	3,101,632.78
1976	9,731,705.66	90.00	108,129.91	48.25	5,217,429.02
1977	6,080,185.63	90.00	67,557.52	48.96	3,307,903.69
1978	9,761,490.39	90.00	108,460.85	49.69	5,388,912.27
1979	8,743,046.74	90.00	97,144.82	50.41	4,896,924.53
1980	12,143,597.77	90.00	134,928.67	51.14	6,899,778.06
1981	8,351,987.63	90.00	92,799.73	51.87	4,813,452.35

PAWC - Water Operations
Water Operations
331.00 Mains and Accessories

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *90* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1982	6,111,003.14	90.00	67,899.94	52.61	3,571,993.64
1983	9,892,385.81	90.00	109,915.24	53.35	5,863,854.42
1984	14,724,422.86	90.00	163,604.46	54.10	8,850,290.22
1985	18,485,037.25	90.00	205,389.01	54.85	11,264,970.87
1986	24,334,717.23	90.00	270,385.36	55.60	15,034,205.96
1987	25,761,395.34	90.00	286,237.32	56.37	16,134,128.84
1988	34,925,333.79	90.00	388,058.71	57.13	22,170,409.38
1989	32,209,570.77	90.00	357,883.61	57.90	20,721,920.29
1990	33,744,028.82	90.00	374,933.12	58.68	21,999,315.73
1991	21,778,710.46	90.00	241,985.33	59.45	14,386,904.93
1992	25,526,379.79	90.00	283,626.04	60.24	17,084,547.82
1993	36,053,908.37	90.00	400,598.41	61.02	24,445,689.13
1994	39,063,208.37	90.00	434,035.03	61.81	26,829,376.89
1995	48,818,082.65	90.00	542,422.36	62.61	33,960,459.57
1996	40,736,175.63	90.00	452,623.53	63.41	28,701,165.70
1997	35,914,447.44	90.00	399,048.85	64.21	25,624,633.02
1998	89,366,715.94	90.00	992,962.09	65.02	64,564,232.08
1999	54,189,259.60	90.00	602,102.02	65.83	39,638,391.46
2000	56,992,397.24	90.00	633,247.95	66.65	42,205,176.51
2001	63,372,702.39	90.00	704,140.13	67.47	47,506,910.17
2002	65,328,164.47	90.00	725,867.46	68.29	49,570,229.76
2003	23,861,672.57	90.00	265,129.32	69.12	18,325,165.67
2004	63,972,510.50	90.00	710,804.66	69.95	49,719,632.58
2005	59,640,593.12	90.00	662,672.31	70.78	46,907,245.10
2006	14,301,603.32	90.00	158,906.48	71.62	11,381,399.16
2007	76,010,752.92	90.00	844,562.71	72.47	61,201,335.83
2008	94,945,127.46	90.00	1,054,944.35	73.31	77,338,536.20

PAWC - Water Operations
Water Operations
331.00 Mains and Accessories

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: ***90*** ***Survivor Curve:*** ***R2***

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2009	89,285,169.49	90.00	992,056.02	74.16	73,570,327.35
2010	93,198,584.08	90.00	1,035,538.34	75.01	77,677,618.61
2011	114,759,794.78	90.00	1,275,107.01	75.87	96,739,361.93
2012	106,676,130.74	90.00	1,185,288.65	76.73	90,943,428.40
2013	142,282,837.54	90.00	1,580,918.16	77.59	122,662,397.80
2014	131,158,688.67	90.00	1,457,316.68	78.46	114,337,028.05
2015	164,536,314.04	90.00	1,828,178.65	79.33	145,023,311.58
2016	173,284,311.42	90.00	1,925,378.48	80.20	154,414,000.39
2017	117,007,142.84	90.00	1,300,077.51	81.08	105,403,903.79
2018	152,048,916.40	90.00	1,689,429.99	81.95	138,455,531.47
2019	163,048,408.09	90.00	1,811,646.39	82.84	150,069,499.83
2020	178,325,461.81	90.00	1,981,391.19	83.72	165,883,999.07
2021	127,290,685.69	90.00	1,414,338.93	84.61	119,665,785.05
2022	194,361,094.68	90.00	2,159,564.63	85.50	184,642,597.12
2023	251,979,959.10	90.00	2,799,773.32	86.40	241,887,860.33
2024	232,169,734.41	90.00	2,579,660.03	87.29	225,185,010.23
2025	270,424,506.85	90.00	3,004,712.45	88.19	264,992,550.71
2026	172,781,928.24	90.00	1,919,796.46	89.09	171,044,014.62
2027	63,650,812.31	90.00	707,230.24	89.77	63,490,754.84
Total	4,205,799,575.08	90.00	46,731,039.56	76.73	3,585,836,516.03

Composite Average Remaining Life ... 76.73 Years

PAWC - Water Operations
Water Operations
333.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 65 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1949	14,826.52	65.00	228.10	10.65	2,429.64
1950	48,490.93	65.00	746.01	10.96	8,173.99
1951	99,807.03	65.00	1,535.49	11.27	17,310.69
1952	161,901.82	65.00	2,490.79	11.60	28,891.90
1953	162,252.96	65.00	2,496.20	11.94	29,798.45
1954	182,970.22	65.00	2,814.92	12.29	34,584.34
1955	296,903.85	65.00	4,567.74	12.65	57,769.25
1956	382,692.04	65.00	5,887.56	13.02	76,658.16
1957	383,923.71	65.00	5,906.51	13.41	79,182.67
1958	469,461.37	65.00	7,222.47	13.81	99,707.35
1959	596,586.65	65.00	9,178.24	14.22	130,480.85
1960	621,865.29	65.00	9,567.14	14.64	140,085.88
1961	579,429.91	65.00	8,914.29	15.08	134,424.98
1962	632,540.73	65.00	9,731.38	15.53	151,159.02
1963	530,529.98	65.00	8,161.99	16.00	130,586.46
1964	489,640.57	65.00	7,532.92	16.48	124,124.06
1965	742,343.34	65.00	11,420.65	16.97	193,817.62
1966	751,320.94	65.00	11,558.76	17.48	201,992.50
1967	796,817.62	65.00	12,258.71	18.00	220,597.10
1968	924,731.91	65.00	14,226.62	18.53	263,551.56
1969	1,014,411.14	65.00	15,606.30	19.07	297,627.27
1970	1,113,798.39	65.00	17,135.33	19.63	336,296.35
1971	1,309,049.11	65.00	20,139.18	20.20	406,742.12
1972	1,424,043.87	65.00	21,908.33	20.78	455,152.84
1973	1,894,697.73	65.00	29,149.15	21.37	622,911.74
1974	1,102,192.23	65.00	16,956.78	21.97	372,563.28
1975	669,083.16	65.00	10,293.57	22.59	232,516.18

PAWC - Water Operations
Water Operations
333.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 65 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1976	874,797.99	65.00	13,458.41	23.21	312,436.46
1977	1,235,628.33	65.00	19,009.64	23.85	453,382.58
1978	1,713,318.04	65.00	26,358.70	24.50	645,723.23
1979	2,639,625.23	65.00	40,609.55	25.15	1,021,438.82
1980	2,419,427.97	65.00	37,221.91	25.82	961,065.53
1981	2,357,188.38	65.00	36,264.38	26.49	960,786.51
1982	2,351,916.68	65.00	36,183.27	27.18	983,460.12
1983	2,667,261.54	65.00	41,034.72	27.87	1,143,720.17
1984	3,165,192.54	65.00	48,695.19	28.58	1,391,509.40
1985	3,484,979.26	65.00	53,614.98	29.29	1,570,120.63
1986	4,247,690.71	65.00	65,348.98	30.01	1,960,866.76
1987	6,013,281.27	65.00	92,511.87	30.73	2,843,046.58
1988	6,674,607.49	65.00	102,686.10	31.47	3,231,430.42
1989	7,139,535.11	65.00	109,838.82	32.21	3,538,241.49
1990	8,043,595.14	65.00	123,747.41	32.96	4,079,129.75
1991	5,928,121.26	65.00	91,201.71	33.72	3,075,579.56
1992	6,234,606.54	65.00	95,916.86	34.49	3,307,982.23
1993	9,288,141.50	65.00	142,894.25	35.26	5,038,792.67
1994	7,497,988.07	65.00	115,353.47	36.04	4,157,564.54
1995	10,660,132.92	65.00	164,001.77	36.83	6,040,304.37
1996	10,946,139.90	65.00	168,401.87	37.62	6,335,981.85
1997	10,384,249.14	65.00	159,757.41	38.43	6,138,973.65
1998	45,120,542.59	65.00	694,161.04	39.23	27,234,528.19
1999	13,636,557.89	65.00	209,792.85	40.05	8,402,162.81
2000	13,676,513.88	65.00	210,407.56	40.87	8,599,280.80
2001	16,055,367.87	65.00	247,005.25	41.70	10,299,780.37
2002	29,420,045.53	65.00	452,615.33	42.53	19,251,058.64

PAWC - Water Operations
Water Operations
333.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2003	3,332,913.70	65.00	51,275.51	43.37	2,223,935.72
2004	2,301,972.14	65.00	35,414.90	44.22	1,566,002.48
2005	18,642,380.85	65.00	286,805.38	45.07	12,926,255.68
2006	97,093.23	65.00	1,493.74	45.93	68,604.29
2007	11,757,112.87	65.00	180,878.36	46.79	8,463,310.79
2008	24,614,968.60	65.00	378,691.20	47.66	18,048,130.08
2009	22,036,985.52	65.00	339,029.98	48.53	16,453,822.61
2010	17,638,502.22	65.00	271,361.12	49.41	13,408,415.84
2011	18,381,854.43	65.00	282,797.29	50.29	14,223,179.90
2012	21,415,824.87	65.00	329,473.68	51.18	16,863,834.62
2013	22,208,505.51	65.00	341,668.75	52.08	17,792,944.42
2014	20,397,030.58	65.00	313,799.95	52.98	16,623,695.78
2015	21,290,834.06	65.00	327,550.75	53.88	17,647,828.01
2016	27,661,526.29	65.00	425,561.24	54.78	23,314,123.66
2017	25,379,567.08	65.00	390,454.23	55.70	21,746,572.16
2018	23,715,731.19	65.00	364,856.80	56.61	20,654,506.39
2019	26,179,867.32	65.00	402,766.52	57.53	23,170,733.54
2020	33,312,868.41	65.00	512,504.82	58.45	29,956,310.80
2021	30,203,778.54	65.00	464,672.75	59.38	27,590,941.88
2022	40,698,247.83	65.00	626,125.85	60.31	37,759,124.29
2023	50,527,321.73	65.00	777,342.12	61.24	47,603,736.89
2024	59,334,324.69	65.00	912,834.25	62.17	56,754,891.29
2025	61,511,074.46	65.00	946,322.65	63.11	59,725,977.52
2026	69,050,398.05	65.00	1,062,312.06	64.05	68,046,379.80
2027	29,437,556.59	65.00	452,884.74	64.76	29,330,571.15

PAWC - Water Operations
Water Operations
333.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	932,401,006.55	65.00	14,344,607.09	51.57	739,791,313.94

Composite Average Remaining Life ... *51.57 Years*

PAWC - Water Operations
Water Operations
334.00 Meters and Installations

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *L1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1964	432.34	0.00	0.00	0.00	0.00
1965	690.21	20.00	34.51	0.50	17.25
1966	379.60	20.00	18.98	0.68	12.94
1967	211.29	20.00	10.56	0.82	8.63
1968	644.58	20.00	32.23	0.96	30.99
1969	484.76	20.00	24.24	1.11	26.97
1970	1,005.44	20.00	50.27	1.27	63.67
1971	393.61	20.00	19.68	1.42	28.01
1972	742.49	20.00	37.12	1.58	58.63
1973	469.40	20.00	23.47	1.73	40.69
1974	161.81	20.00	8.09	1.88	15.24
1975	867.81	20.00	43.39	2.03	88.08
1976	209.21	20.00	10.46	2.17	22.74
1977	228.08	20.00	11.40	2.32	26.42
1978	368.71	20.00	18.43	2.46	45.36
1979	424.75	20.00	21.24	2.61	55.35
1980	237.30	20.00	11.86	2.76	32.69
1981	289.53	20.00	14.48	2.91	42.11
1986	1,711.36	20.00	85.56	3.74	320.30
1987	178,858.25	20.00	8,942.57	3.92	35,098.87
1988	380.71	20.00	19.03	4.11	78.26
1989	8,855.11	20.00	442.74	4.30	1,905.22
1990	32,652.21	20.00	1,632.55	4.50	7,346.74
1991	616,424.84	20.00	30,820.05	4.70	144,927.39
1992	194,193.42	20.00	9,709.29	4.91	47,672.63
1993	212,678.26	20.00	10,633.50	5.12	54,477.12
1994	179,950.72	20.00	8,997.19	5.34	48,062.70

PAWC - Water Operations
Water Operations
334.00 Meters and Installations

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 20 **Survivor Curve:** L1.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1995	234,273.94	20.00	11,713.24	5.57	65,201.69
1996	62,330.63	20.00	3,116.41	5.80	18,064.97
1997	991,842.07	20.00	49,590.18	6.03	299,154.75
1998	9,213,281.69	20.00	460,646.21	6.27	2,889,945.35
1999	1,281,258.03	20.00	64,060.42	6.52	417,656.38
2000	1,073,049.21	20.00	53,650.38	6.77	363,219.57
2001	2,818,791.16	20.00	140,934.09	7.02	989,946.37
2002	1,386,633.90	20.00	69,329.01	7.28	504,794.79
2003	63,105.89	20.00	3,155.17	7.54	23,791.02
2004	32,223.34	20.00	1,611.10	7.80	12,568.47
2005	2,154,246.84	20.00	107,708.16	8.06	868,493.43
2006	47,653.69	20.00	2,382.59	8.33	19,840.53
2007	2,897,977.92	20.00	144,893.28	8.59	1,245,169.69
2008	1,370,799.29	20.00	68,537.31	8.86	607,533.84
2009	3,533,616.30	20.00	176,673.96	9.14	1,615,070.38
2010	7,039,303.26	20.00	351,951.51	9.43	3,318,506.95
2011	12,087,330.67	20.00	604,343.09	9.73	5,880,622.41
2012	10,645,727.71	20.00	532,265.74	10.05	5,350,224.26
2013	8,536,390.17	20.00	426,802.95	10.40	4,437,936.10
2014	6,150,495.34	20.00	307,512.84	10.78	3,313,588.78
2015	11,714,189.11	20.00	585,686.74	11.19	6,553,624.99
2016	14,068,588.07	20.00	703,402.12	11.65	8,192,318.81
2017	14,901,224.89	20.00	745,032.34	12.15	9,055,849.13
2018	12,242,827.72	20.00	612,117.64	12.72	7,786,417.57
2019	16,449,936.52	20.00	822,464.92	13.34	10,975,530.58
2020	9,510,416.90	20.00	475,502.40	14.02	6,668,432.91
2021	6,479,786.38	20.00	323,976.75	14.75	4,778,999.46

PAWC - Water Operations
Water Operations
334.00 Meters and Installations

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *L1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	20,099,160.94	20.00	1,004,919.06	15.52	15,598,707.32
2023	35,623,116.67	20.00	1,781,086.74	16.34	29,100,581.57
2024	39,363,866.28	20.00	1,968,116.97	17.20	33,850,053.53
2025	31,430,507.30	20.00	1,571,464.40	18.10	28,444,770.39
2026	34,926,198.21	20.00	1,746,242.17	19.04	33,244,249.68
2027	18,416,768.49	20.00	920,802.70	19.76	18,193,388.26
Total	338,280,864.33	19.67	16,913,365.49	14.49	245,024,758.94

Composite Average Remaining Life ... 14.49 Years

PAWC - Water Operations
Water Operations
335.00 Fire Hydrants

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 60 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1936	588.40	60.00	9.81	5.62	55.16
1937	1,621.51	60.00	27.03	5.91	159.73
1938	1,929.31	60.00	32.16	6.20	199.35
1939	3,562.65	60.00	59.38	6.50	385.75
1940	2,310.84	60.00	38.51	6.79	261.33
1941	2,706.59	60.00	45.11	7.08	319.28
1942	983.11	60.00	16.39	7.38	120.88
1943	1,073.20	60.00	17.89	7.67	137.23
1944	1,074.91	60.00	17.92	7.97	142.80
1945	475.94	60.00	7.93	8.28	65.66
1946	1,665.69	60.00	27.76	8.58	238.24
1947	7,077.54	60.00	117.96	8.89	1,048.82
1948	5,623.01	60.00	93.72	9.21	863.07
1949	16,588.46	60.00	276.47	9.53	2,634.20
1950	3,735.45	60.00	62.26	9.85	613.43
1951	21,271.04	60.00	354.52	10.19	3,611.46
1952	17,875.29	60.00	297.92	10.52	3,135.37
1953	13,592.28	60.00	226.54	10.87	2,462.28
1954	21,052.56	60.00	350.88	11.22	3,937.90
1955	17,841.89	60.00	297.36	11.58	3,444.28
1956	29,621.78	60.00	493.69	11.95	5,900.11
1957	42,590.10	60.00	709.83	12.33	8,750.94
1958	51,525.95	60.00	858.76	12.71	10,917.60
1959	66,485.57	60.00	1,108.09	13.11	14,524.08
1960	67,459.21	60.00	1,124.32	13.51	15,190.07
1961	65,264.47	60.00	1,087.74	13.92	15,144.59
1962	48,976.80	60.00	816.28	14.35	11,709.52

PAWC - Water Operations
Water Operations
335.00 Fire Hydrants

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 60 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1963	73,731.35	60.00	1,228.85	14.78	18,157.46
1964	61,772.46	60.00	1,029.54	15.22	15,666.91
1965	92,329.65	60.00	1,538.82	15.67	24,111.12
1966	94,944.24	60.00	1,582.40	16.13	25,521.57
1967	119,431.65	60.00	1,990.52	16.60	33,041.89
1968	117,836.73	60.00	1,963.94	17.08	33,545.08
1969	115,475.29	60.00	1,924.58	17.57	33,814.69
1970	112,035.50	60.00	1,867.25	18.07	33,743.32
1971	148,642.08	60.00	2,477.36	18.58	46,034.08
1972	157,492.24	60.00	2,624.86	19.10	50,137.23
1973	210,824.12	60.00	3,513.73	19.63	68,981.33
1974	286,596.59	60.00	4,776.60	20.17	96,355.43
1975	285,002.37	60.00	4,750.03	20.72	98,423.97
1976	190,952.07	60.00	3,182.53	21.28	67,727.68
1977	279,759.24	60.00	4,662.64	21.85	101,881.52
1978	430,990.30	60.00	7,183.15	22.43	161,101.08
1979	500,711.51	60.00	8,345.17	23.02	192,077.07
1980	432,792.80	60.00	7,213.19	23.61	170,334.24
1981	261,009.25	60.00	4,350.14	24.22	105,356.74
1982	406,053.34	60.00	6,767.54	24.84	168,076.20
1983	534,225.72	60.00	8,903.74	25.46	226,694.17
1984	531,571.07	60.00	8,859.49	26.09	231,164.59
1985	567,328.80	60.00	9,455.45	26.74	252,794.20
1986	734,721.97	60.00	12,245.33	27.39	335,354.27
1987	804,852.40	60.00	13,414.17	28.04	376,184.27
1988	858,300.28	60.00	14,304.97	28.71	410,725.58
1989	1,071,806.20	60.00	17,863.39	29.39	524,970.46

PAWC - Water Operations
Water Operations
335.00 Fire Hydrants

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *60* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1990	1,134,052.77	60.00	18,900.83	30.07	568,351.74
1991	951,267.70	60.00	15,854.42	30.76	487,724.26
1992	1,306,645.69	60.00	21,777.37	31.46	685,169.16
1993	1,152,244.85	60.00	19,204.03	32.17	617,756.79
1994	1,523,647.70	60.00	25,394.06	32.88	835,047.65
1995	1,664,375.32	60.00	27,739.51	33.61	932,215.07
1996	1,577,246.03	60.00	26,287.36	34.33	902,552.17
1997	1,706,694.28	60.00	28,444.83	35.07	997,603.42
1998	1,583,268.10	60.00	26,387.73	35.82	945,092.15
1999	2,036,884.89	60.00	33,947.99	36.56	1,241,307.64
2000	1,229,485.62	60.00	20,491.37	37.32	764,806.36
2001	1,686,281.69	60.00	28,104.62	38.09	1,070,448.71
2002	1,575,205.61	60.00	26,253.36	38.86	1,020,146.35
2003	2,108,086.60	60.00	35,134.68	39.64	1,392,599.17
2004	2,170,114.86	60.00	36,168.48	40.42	1,461,941.49
2005	212,011.76	60.00	3,533.52	41.21	145,614.47
2006	5,605,536.83	60.00	93,425.36	42.01	3,924,493.90
2007	3,150,891.37	60.00	52,514.71	42.81	2,248,140.27
2008	4,214,667.80	60.00	70,244.27	43.62	3,063,870.00
2009	4,587,488.19	60.00	76,457.93	44.43	3,397,231.94
2010	4,190,646.79	60.00	69,843.92	45.25	3,160,681.71
2011	3,495,645.59	60.00	58,260.60	46.08	2,684,574.70
2012	4,588,389.00	60.00	76,472.94	46.91	3,587,442.16
2013	5,180,806.47	60.00	86,346.54	47.75	4,122,959.72
2014	4,601,946.96	60.00	76,698.91	48.59	3,726,871.60
2015	7,650,951.86	60.00	127,515.52	49.44	6,304,339.48
2016	7,674,820.02	60.00	127,913.32	50.29	6,433,215.27

PAWC - Water Operations
Water Operations
335.00 Fire Hydrants

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *60* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2017	5,996,932.02	60.00	99,948.59	51.15	5,112,504.45
2018	5,445,706.29	60.00	90,761.52	52.02	4,721,016.86
2019	7,171,981.08	60.00	119,532.69	52.88	6,321,432.56
2020	7,520,451.80	60.00	125,340.52	53.76	6,737,966.13
2021	7,678,660.09	60.00	127,977.32	54.64	6,992,182.04
2022	10,966,962.91	60.00	182,782.22	55.52	10,147,940.00
2023	13,852,812.43	60.00	230,879.58	56.41	13,023,012.29
2024	13,735,397.26	60.00	228,922.66	57.30	13,116,933.39
2025	9,713,121.98	60.00	161,884.92	58.20	9,420,907.03
2026	7,071,586.42	60.00	117,859.45	59.09	6,964,904.01
2027	2,929,627.00	60.00	48,826.98	59.77	2,918,576.03
Total	180,638,306.40	60.00	3,010,630.22	48.56	146,207,521.44

Composite Average Remaining Life ... 48.56 Years

PAWC - Water Operations
Water Operations
341.00 Transportation - Not Classified

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *10* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1986	349.00	0.00	0.00	0.00	0.00
2020	2,238.67	10.00	223.86	4.74	1,061.80
2025	36,010.43	10.00	3,601.00	8.07	29,055.54
Total	38,598.10	6.67	3,824.86	7.87	30,117.34

Composite Average Remaining Life ... 7.87 Years

PAWC - Water Operations
Water Operations
341.10 Transportation - Light Trucks
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *10* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2011	13,026.96	10.00	1,302.68	2.44	3,182.11
2012	1,047,063.51	10.00	104,705.08	2.68	280,635.77
2013	4,227,768.76	10.00	422,771.76	2.93	1,237,070.16
2014	32,917.81	10.00	3,291.74	3.18	10,455.40
2015	725,387.34	10.00	72,537.86	3.43	248,463.21
2016	1,220,134.83	10.00	122,012.01	3.67	447,647.78
2017	26,157.18	10.00	2,615.69	3.91	10,221.40
2018	2,047,017.14	10.00	204,699.24	4.15	849,777.95
2019	9,553,497.26	10.00	955,338.17	4.42	4,222,441.12
2020	8,453,258.56	10.00	845,315.63	4.74	4,009,377.86
2021	10,790,668.96	10.00	1,079,053.84	5.16	5,565,161.43
2022	9,807,263.14	10.00	980,714.45	5.70	5,589,248.87
2023	16,574,063.92	10.00	1,657,386.34	6.39	10,585,528.60
2024	10,308,127.68	10.00	1,030,800.30	7.19	7,413,824.84
2025	6,190,218.36	10.00	619,014.35	8.07	4,994,667.34
2026	5,234,232.92	10.00	523,416.96	9.01	4,716,216.88
2027	1,531,202.90	10.00	153,118.44	9.75	1,492,939.02
Total	87,782,007.23	10.00	8,778,094.54	5.89	51,676,859.75

Composite Average Remaining Life ... 5.89 Years

PAWC - Water Operations
Water Operations
341.20 Transportation - Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *10* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2000	58,209.00	10.00	5,820.83	0.51	2,951.99
2011	4,000.00	10.00	400.00	2.44	977.08
2012	90,370.79	10.00	9,036.97	2.68	24,221.34
2013	2,819,782.74	10.00	281,974.86	2.93	825,085.12
2014	411,274.47	10.00	41,126.95	3.18	130,629.56
2016	2,478,954.18	10.00	247,892.42	3.67	909,488.28
2017	2,326,634.81	10.00	232,660.67	3.91	909,175.65
2018	5,865,427.39	10.00	586,535.64	4.15	2,434,914.08
2019	8,314.30	10.00	831.42	4.42	3,674.74
2020	811,487.16	10.00	81,147.73	4.74	384,888.10
2021	229,580.55	10.00	22,957.78	5.16	118,403.49
2022	172,600.00	10.00	17,259.79	5.70	98,366.32
Total	15,276,635.39	10.00	1,527,645.06	3.82	5,842,775.75

Composite Average Remaining Life ... 3.82 Years

PAWC - Water Operations
Water Operations
341.40 Transportation - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *10* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1961	374.92	0.00	0.00	0.00	0.00
1977	403.11	0.00	0.00	0.00	0.00
1978	265.00	0.00	0.00	0.00	0.00
1997	5,832.00	0.00	0.00	0.00	0.00
1998	8,060.31	0.00	0.00	0.00	0.00
1999	3,236.47	0.00	0.00	0.00	0.00
2006	4,626.70	10.00	462.66	1.40	648.65
2007	18,169.65	10.00	1,816.94	1.59	2,893.25
2008	97,342.34	10.00	9,734.12	1.79	17,433.61
2009	25,526.94	10.00	2,552.66	2.00	5,101.22
2010	50,483.13	10.00	5,048.25	2.22	11,183.95
2011	75,022.83	10.00	7,502.19	2.44	18,325.90
2012	320,046.56	10.00	32,004.27	2.68	85,779.43
2013	836,648.69	10.00	83,663.86	2.93	244,808.36
2014	718,980.22	10.00	71,897.15	3.18	228,363.48
2015	178,997.07	10.00	17,899.49	3.43	61,310.95
2016	954,565.45	10.00	95,455.39	3.67	350,214.66
2017	120,461.68	10.00	12,046.02	3.91	47,072.63
2018	2,510,965.54	10.00	251,093.52	4.15	1,042,376.79
2019	787,130.82	10.00	78,712.13	4.42	347,894.96
2020	473,035.57	10.00	47,302.98	4.74	224,360.62
2021	107,145.87	10.00	10,714.46	5.16	55,259.23
2022	47,744.96	10.00	4,774.44	5.70	27,210.29
2023	129,695.53	10.00	12,969.40	6.39	82,833.98
2024	211,053.00	10.00	21,105.04	7.19	151,793.81

PAWC - Water Operations
Water Operations
341.40 Transportation - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *10* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	7,685,814.36	7.60	766,754.98	3.92	3,004,865.77

Composite Average Remaining Life ... *3.92* *Years*

PAWC - Water Operations
Water Operations
345.00 Power Operated Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 21 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1951	29.64	0.00	0.00	0.00	0.00
1967	1,931.23	0.00	0.00	0.00	0.00
1968	1,032.10	0.00	0.00	0.00	0.00
1969	817.92	0.00	0.00	0.00	0.00
1970	6,734.16	0.00	0.00	0.00	0.00
1972	6,321.41	0.00	0.00	0.00	0.00
1975	281.75	0.00	0.00	0.00	0.00
1977	596.25	0.00	0.00	0.00	0.00
1978	1,790.00	0.00	0.00	0.00	0.00
1980	7,445.82	0.00	0.00	0.00	0.00
1982	2,452.73	0.00	0.00	0.00	0.00
1984	1,722.07	0.00	0.00	0.00	0.00
1985	16,792.81	0.00	0.00	0.00	0.00
1986	14,013.50	21.00	667.30	0.50	333.65
1987	4,748.59	21.00	226.12	0.78	177.31
1988	10,221.10	21.00	486.71	1.11	538.34
1989	13,115.87	21.00	624.56	1.43	893.42
1990	9,498.15	21.00	452.29	1.76	795.43
1991	12,096.57	21.00	576.02	2.09	1,203.03
1992	18,034.45	21.00	858.78	2.42	2,079.02
1993	77,817.09	21.00	3,705.54	2.75	10,201.16
1994	142,750.50	21.00	6,797.58	3.09	20,991.50
1995	148,235.10	21.00	7,058.75	3.43	24,188.39
1996	79,553.28	21.00	3,788.22	3.77	14,281.97
1997	41,095.55	21.00	1,956.91	4.12	8,055.94
1998	97,830.04	21.00	4,658.53	4.47	20,817.39
1999	255,047.45	21.00	12,145.01	4.83	58,619.48

PAWC - Water Operations
Water Operations
345.00 Power Operated Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 21 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2001	45,944.17	21.00	2,187.80	5.56	12,170.42
2002	104,174.99	21.00	4,960.67	5.94	29,476.70
2003	170,236.10	21.00	8,106.41	6.33	51,312.53
2004	19,131.90	21.00	911.03	6.73	6,128.59
2005	33,181.89	21.00	1,580.08	7.13	11,272.20
2006	13,570.69	21.00	646.22	7.55	4,880.06
2007	10,129.80	21.00	482.37	7.98	3,849.86
2008	70,816.03	21.00	3,372.16	8.42	28,404.44
2009	85,341.82	21.00	4,063.86	8.88	36,081.62
2010	16,615.93	21.00	791.23	9.35	7,397.10
2011	34,410.00	21.00	1,638.56	9.83	16,114.92
2012	21,347.57	21.00	1,016.54	10.34	10,508.66
2013	21,465.79	21.00	1,022.17	10.86	11,099.08
2014	100,707.30	21.00	4,795.54	11.40	54,664.74
2015	52,293.85	21.00	2,490.16	11.96	29,784.34
2016	126,868.88	21.00	6,041.32	12.55	75,788.91
2017	26,612.95	21.00	1,267.27	13.15	16,668.45
2018	292,687.82	21.00	13,937.39	13.79	192,165.28
2019	13,003.54	21.00	619.21	14.45	8,947.75
2022	53,275.45	21.00	2,536.90	16.62	42,171.99
2024	2,433.40	21.00	115.88	18.25	2,114.57
2025	805,604.26	21.00	38,361.76	19.12	733,454.73
Total	3,091,859.26	15.43	144,946.83	10.68	1,547,632.99

Composite Average Remaining Life ... 10.68 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.20 Structures - Collection
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 45 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2007	5,558.35	45.00	123.52	26.32	3,250.41
2008	108,379.42	45.00	2,408.43	27.18	65,452.28
2009	132,540.66	45.00	2,945.35	28.05	82,609.27
2011	8,406.90	45.00	186.82	29.82	5,570.56
2013	99,290.12	45.00	2,206.45	31.63	69,780.23
2014	14,502.89	45.00	322.29	32.54	10,487.62
2015	30,107.50	45.00	669.06	33.46	22,389.76
2016	36,078.70	45.00	801.75	34.40	27,577.28
2017	194,749.06	45.00	4,327.75	35.33	152,918.27
2018	173,543.28	45.00	3,856.52	36.28	139,909.12
2019	262,981.43	45.00	5,844.03	37.23	217,567.07
2020	428,816.35	45.00	9,529.25	38.18	363,872.88
2021	566,401.30	45.00	12,586.69	39.15	492,727.17
2022	3,366,037.21	45.00	74,800.79	40.11	3,000,457.67
2023	2,415,861.63	45.00	53,685.79	41.08	2,205,568.36
2024	3,333,894.56	45.00	74,086.51	42.06	3,115,862.73
2025	901,842.84	45.00	20,040.94	43.04	862,466.34
2026	1,590,682.41	45.00	35,348.48	44.02	1,555,906.25
2027	140,378.81	45.00	3,119.53	44.75	139,610.12
Total	13,810,053.42	45.00	306,889.93	40.84	12,533,983.39

Composite Average Remaining Life ... 40.84 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.30 Structures - SPP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1935	18,861.14	55.00	342.93	6.71	2,299.72
1958	63,683.83	55.00	1,157.89	15.84	18,342.31
1976	25,970.39	55.00	472.19	23.68	11,181.10
1978	11,146.44	55.00	202.66	24.60	4,985.97
1980	93,957.85	55.00	1,708.32	25.54	43,627.08
1982	12,204.98	55.00	221.91	26.49	5,877.63
1983	86,589.73	55.00	1,574.36	26.97	42,454.93
1984	22,251.97	55.00	404.58	27.45	11,105.73
1985	104,674.02	55.00	1,903.16	27.94	53,168.88
1986	109,744.95	55.00	1,995.36	28.43	56,723.44
1987	29,681.60	55.00	539.67	28.92	15,608.65
1988	220,522.99	55.00	4,009.51	29.42	117,968.26
1989	240,185.48	55.00	4,367.01	29.93	130,685.66
1990	195,083.34	55.00	3,546.97	30.43	107,947.02
1991	285,470.50	55.00	5,190.37	30.95	160,621.44
1992	76,045.29	55.00	1,382.64	31.46	43,501.44
1993	2,160,497.80	55.00	39,281.75	31.98	1,256,419.52
1994	40,624.78	55.00	738.63	32.51	24,014.45
1996	24,175.73	55.00	439.56	33.58	14,761.39
1997	207,995.69	55.00	3,781.74	34.12	129,050.86
1998	429,870.49	55.00	7,815.82	34.67	271,008.10
1999	351,573.23	55.00	6,392.24	35.23	225,197.52
2000	289,845.37	55.00	5,269.91	35.79	188,618.90
2001	179,000.00	55.00	3,254.54	36.36	118,335.08
2002	66,094.94	55.00	1,201.73	36.94	44,385.75
2003	271,071.10	55.00	4,928.56	37.52	184,900.50
2004	1,082,516.67	55.00	19,682.11	38.11	750,007.12

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.30 Structures - SPP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2005	428,604.11	55.00	7,792.80	38.70	301,609.46
2006	917,095.09	55.00	16,674.44	39.31	655,459.36
2007	516,608.48	55.00	9,392.87	39.92	374,993.44
2008	2,147,228.90	55.00	39,040.50	40.54	1,582,870.81
2009	2,915,918.08	55.00	53,016.66	41.18	2,183,057.58
2010	2,365,815.22	55.00	43,014.79	41.82	1,798,834.53
2011	298,754.41	55.00	5,431.89	42.47	230,699.45
2012	37,883.52	55.00	688.79	43.13	29,710.45
2013	181,693.78	55.00	3,303.52	43.81	144,721.96
2014	4,039,714.09	55.00	73,449.30	44.49	3,267,962.08
2015	1,545,002.12	55.00	28,090.93	45.19	1,269,489.12
2016	553,292.14	55.00	10,059.85	45.90	461,796.00
2017	463,399.48	55.00	8,425.44	46.63	392,893.09
2018	388,079.03	55.00	7,055.98	47.37	334,268.33
2019	1,004,042.79	55.00	18,255.31	48.13	878,614.30
2020	1,665,213.82	55.00	30,276.59	48.91	1,480,700.77
2021	987,136.34	55.00	17,947.92	49.70	892,032.64
2022	790,909.88	55.00	14,380.17	50.52	726,443.16
2023	435,502.41	55.00	7,918.22	51.36	406,642.36
2024	821,724.47	55.00	14,940.43	52.22	780,165.39
2025	2,477,582.27	55.00	45,046.92	53.11	2,392,258.98
Total	31,680,540.73	55.00	576,009.43	42.74	24,618,021.71

Composite Average Remaining Life ... 42.74 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1916	177,755.17	0.00	0.00	0.00	0.00
1932	602.40	55.00	10.95	5.57	61.00
1935	562,419.57	55.00	10,225.80	6.71	68,575.13
1946	484.94	55.00	8.82	10.98	96.79
1954	3,946,317.60	55.00	71,751.18	14.19	1,018,405.60
1957	135,742.23	55.00	2,468.04	15.43	38,073.09
1961	346,385.67	55.00	6,297.92	17.10	107,676.17
1963	1,566,657.10	55.00	28,484.65	17.94	511,135.99
1965	53,759.86	55.00	977.45	18.80	18,376.27
1967	23,995,715.53	55.00	436,285.43	19.66	8,579,431.77
1968	361,924.73	55.00	6,580.45	20.10	132,270.46
1969	221,599.62	55.00	4,029.08	20.54	82,752.37
1973	38,481.00	55.00	699.65	22.32	15,614.24
1975	419,410.21	55.00	7,625.63	23.22	177,085.00
1976	16,150.91	55.00	293.65	23.68	6,953.49
1978	20,306,005.32	55.00	369,199.84	24.60	9,083,178.10
1981	12,778,313.67	55.00	232,332.81	26.01	6,043,078.03
1984	693,417.71	55.00	12,607.59	27.45	346,077.60
1985	133,860.33	55.00	2,433.82	27.94	67,993.99
1986	385,741.04	55.00	7,013.47	28.43	199,376.45
1988	15,031,971.53	55.00	273,308.38	29.42	8,041,318.39
1989	7,342,590.93	55.00	133,501.56	29.93	3,995,126.34
1990	6,479,049.63	55.00	117,800.82	30.43	3,585,104.31
1991	34,903,905.07	55.00	634,616.02	30.95	19,638,861.59
1992	52,055,984.18	55.00	946,471.78	31.46	29,778,444.87
1993	354,817.39	55.00	6,451.22	31.98	206,341.10
1994	16,680.06	55.00	303.27	32.51	9,860.05

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 *Survivor Curve:* S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1995	124,581.42	55.00	2,265.12	33.04	74,849.60
1996	642,593.75	55.00	11,683.51	33.58	392,359.50
1997	274,432.07	55.00	4,989.67	34.12	170,271.29
1998	599,628.40	55.00	10,902.33	34.67	378,030.49
1999	230,360.60	55.00	4,188.37	35.23	147,555.71
2000	6,456,390.86	55.00	117,388.84	35.79	4,201,541.52
2001	2,266,355.22	55.00	41,206.43	36.36	1,498,264.35
2002	1,387,706.79	55.00	25,231.02	36.94	931,908.11
2003	1,983,806.66	55.00	36,069.19	37.52	1,353,175.78
2004	204,864.73	55.00	3,724.81	38.11	141,937.77
2005	814,250.99	55.00	14,804.55	38.70	572,989.84
2006	1,009,776.60	55.00	18,359.56	39.31	721,700.00
2007	46,539.86	55.00	846.18	39.92	33,782.14
2008	2,849,140.44	55.00	51,802.52	40.54	2,100,298.31
2009	17,686,455.46	55.00	321,571.69	41.18	13,241,301.55
2010	20,483,746.66	55.00	372,431.50	41.82	15,574,703.63
2011	16,053,015.59	55.00	291,872.81	42.47	12,396,208.01
2012	3,496,681.74	55.00	63,575.99	43.13	2,742,300.05
2013	231,088.74	55.00	4,201.61	43.81	184,065.82
2014	10,269,815.58	55.00	186,723.79	44.49	8,307,857.22
2015	149,213.17	55.00	2,712.96	45.19	122,604.68
2016	446,427.21	55.00	8,116.85	45.90	372,602.98
2017	990,597.57	55.00	18,010.85	46.63	839,877.81
2018	421,177.10	55.00	7,657.76	47.37	362,777.05
2019	208,842.04	55.00	3,797.13	48.13	182,752.77
2020	2,243,371.63	55.00	40,788.55	48.91	1,994,796.14
2021	2,311,174.12	55.00	42,021.32	49.70	2,088,508.61

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	7,852,783.99	55.00	142,777.79	50.52	7,212,707.02
2023	12,748,818.46	55.00	231,796.54	51.36	11,903,974.49
2025	1,588,339.04	55.00	28,878.87	53.11	1,533,639.62
Total	298,397,719.89	54.04	5,422,177.41	33.85	183,530,610.06

Composite Average Remaining Life ... 33.85 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.70 Structures - General

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1939	2,887.33	0.00	0.00	0.00	0.00
1972	429.33	35.00	12.27	4.21	51.69
1984	10,874.51	35.00	310.70	8.15	2,532.75
1993	16,482.80	35.00	470.94	11.66	5,491.87
1994	28,449.25	35.00	812.84	12.09	9,828.64
1997	5,713.09	35.00	163.23	13.44	2,193.95
2003	3,684.19	35.00	105.26	16.45	1,731.38
2007	1,119.34	35.00	31.98	18.74	599.18
2008	348,640.08	35.00	9,961.14	19.35	192,733.03
2009	43,820.29	35.00	1,252.01	19.98	25,014.61
2010	5,345.53	35.00	152.73	20.63	3,150.53
2011	7,001.10	35.00	200.03	21.30	4,260.28
2012	28,068.61	35.00	801.96	21.99	17,633.67
2013	24,924.10	35.00	712.12	22.70	16,164.65
2014	408,488.87	35.00	11,671.11	23.43	273,481.72
2015	1,009,745.79	35.00	28,849.87	24.19	697,812.20
2016	9,076.51	35.00	259.33	24.97	6,474.40
2017	130,192.63	35.00	3,719.79	25.77	95,845.08
2018	367,130.67	35.00	10,489.45	26.59	278,938.73
2019	83,750.56	35.00	2,392.87	27.44	65,665.83
2020	173,552.29	35.00	4,958.64	28.32	140,408.65
2021	640,981.11	35.00	18,313.74	29.21	535,000.86
2022	1,080,190.69	35.00	30,862.58	30.13	929,975.10
2023	769,035.77	35.00	21,972.45	31.07	682,766.60
2024	2,013,993.87	35.00	57,542.67	32.03	1,843,277.88
2025	694,344.07	35.00	19,838.40	33.01	654,883.71
2026	272,010.26	35.00	7,771.72	34.00	264,250.64

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.70 Structures - General

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2027	86,369.08	35.00	2,467.69	34.75	85,752.00
Total	8,266,301.72	33.75	236,097.51	28.95	6,835,919.64

Composite Average Remaining Life ... 28.95 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
355.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1980	3,900.49	35.00	111.44	7.91	881.74
1983	14,573.73	35.00	416.39	9.01	3,752.51
1987	19,246.40	35.00	549.90	10.54	5,796.56
1989	49,338.78	35.00	1,409.68	11.34	15,983.19
1990	7,692.28	35.00	219.78	11.75	2,581.40
1992	59,866.38	35.00	1,710.46	12.58	21,516.60
1993	260,597.74	35.00	7,445.63	13.01	96,843.27
1994	12,067.19	35.00	344.78	13.44	4,634.26
1997	30,447.00	35.00	869.91	14.79	12,868.06
1998	74,281.11	35.00	2,122.31	15.26	32,386.09
1999	54,144.46	35.00	1,546.98	15.74	24,343.92
2000	97,004.84	35.00	2,771.56	16.22	44,961.78
2001	38,477.83	35.00	1,099.36	16.72	18,379.91
2002	56,915.93	35.00	1,626.17	17.23	28,011.06
2005	68,295.28	35.00	1,951.29	18.81	36,707.50
2007	12,208.69	35.00	348.82	19.93	6,952.49
2008	1,263,581.59	35.00	36,102.23	20.51	740,503.85
2009	2,513,725.97	35.00	71,820.55	21.11	1,515,786.56
2010	20,681.36	35.00	590.89	21.71	12,829.97
2011	62,203.16	35.00	1,777.23	22.34	39,698.07
2012	81,422.26	35.00	2,326.34	22.98	53,453.17
2013	26,762.41	35.00	764.64	23.63	18,071.65
2014	609,411.88	35.00	17,411.72	24.31	423,252.81
2015	84,106.93	35.00	2,403.05	25.00	60,078.10
2016	10,498.31	35.00	299.95	25.71	7,712.28
2017	13,046.73	35.00	372.76	26.44	9,856.22
2018	4,307.88	35.00	123.08	27.19	3,346.86

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
355.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2019	9,195.02	35.00	262.71	27.96	7,346.59
2020	160,993.90	35.00	4,599.81	28.76	132,281.32
2021	241,827.33	35.00	6,909.33	29.57	204,338.06
2022	226,859.70	35.00	6,481.69	30.41	197,132.02
2023	90,971.14	35.00	2,599.17	31.28	81,294.84
2024	88,903.89	35.00	2,540.10	32.16	81,700.88
2025	764,953.95	35.00	21,855.77	33.08	722,983.88
2026	150,000.00	35.00	4,285.70	34.02	145,813.87
Total	7,282,511.54	35.00	208,071.19	23.14	4,814,081.35

Composite Average Remaining Life ... 23.14 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
360.10 Collection Sewers - Force Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 75 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1972	48,509.48	75.00	646.79	26.93	17,416.52
1973	81,585.98	75.00	1,087.81	27.63	30,053.68
1974	1,029,636.96	75.00	13,728.49	28.34	389,008.26
1975	608,832.68	75.00	8,117.77	29.06	235,876.16
1976	720,712.47	75.00	9,609.50	29.78	286,198.72
1977	350,159.05	75.00	4,668.79	30.52	142,475.36
1978	211,203.87	75.00	2,816.05	31.26	88,035.82
1979	58,745.44	75.00	783.27	32.01	25,074.57
1980	124,546.85	75.00	1,660.62	32.77	54,418.83
1981	132,795.94	75.00	1,770.61	33.54	59,384.25
1982	41,902.81	75.00	558.70	34.31	19,170.34
1983	163,569.93	75.00	2,180.93	35.09	76,533.69
1985	270,805.38	75.00	3,610.74	36.68	132,434.35
1986	56,828.81	75.00	757.72	37.48	28,398.80
1987	202,246.19	75.00	2,696.62	38.29	103,256.05
1988	442,666.46	75.00	5,902.22	39.11	230,817.00
1989	84,208.14	75.00	1,122.78	39.93	44,831.08
1990	86,819.04	75.00	1,157.59	40.76	47,183.71
1991	70,230.83	75.00	936.41	41.60	38,951.07
1992	32,532.38	75.00	433.77	42.44	18,408.01
1993	544,567.48	75.00	7,260.90	43.29	314,313.21
1994	270,934.00	75.00	3,612.45	44.14	159,465.22
1995	892,189.42	75.00	11,895.86	45.00	535,355.79
1996	127,110.51	75.00	1,694.81	45.87	77,745.00
1997	1,619,488.61	75.00	21,593.18	46.75	1,009,379.14
1998	636,549.21	75.00	8,487.32	47.62	404,195.10
1999	446,224.41	75.00	5,949.66	48.51	288,615.26

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
360.10 Collection Sewers - Force Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 75 *Survivor Curve:* R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2000	586,262.66	75.00	7,816.84	49.40	386,146.62
2001	842,675.79	75.00	11,235.68	50.29	565,088.96
2002	1,641,311.75	75.00	21,884.16	51.20	1,120,390.43
2003	401,042.35	75.00	5,347.23	52.10	278,601.94
2004	2,358,294.55	75.00	31,443.93	53.01	1,666,918.24
2005	645,520.63	75.00	8,606.94	53.93	464,168.40
2006	1,928,920.50	75.00	25,718.94	54.85	1,410,679.42
2007	1,259,669.17	75.00	16,795.59	55.77	936,763.24
2008	4,640,440.51	75.00	61,872.54	56.71	3,508,484.98
2009	1,033,039.11	75.00	13,773.85	57.64	793,905.75
2010	739,206.52	75.00	9,856.09	58.58	577,330.00
2013	289,015.87	75.00	3,853.54	61.41	236,658.10
2014	4,323,076.29	75.00	57,641.01	62.37	3,594,880.32
2015	2,369,938.64	75.00	31,599.18	63.32	2,000,941.91
2016	3,107,951.57	75.00	41,439.35	64.28	2,663,780.71
2017	3,455,769.80	75.00	46,076.93	65.24	3,006,261.19
2018	1,039,425.79	75.00	13,859.01	66.21	917,595.67
2019	4,273,152.31	75.00	56,975.36	67.18	3,827,421.05
2020	2,053,343.36	75.00	27,377.91	68.15	1,865,742.41
2021	2,126,300.27	75.00	28,350.67	69.12	1,959,608.06
2022	1,464,987.65	75.00	19,533.17	70.10	1,369,179.23
2023	2,380,782.02	75.00	31,743.76	71.07	2,256,116.08
2024	3,192,876.24	75.00	42,571.68	72.05	3,067,365.10
2025	1,681,466.38	75.00	22,419.55	73.03	1,637,357.27
2026	253,797.13	75.00	3,383.96	74.02	250,466.35
2027	14,944,940.28	75.00	199,265.86	74.75	14,895,893.69

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
360.10 Collection Sewers - Force Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	72,388,809.47	75.00	965,184.09	62.28	60,114,740.12

Composite Average Remaining Life ... 62.28 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 *Survivor Curve:* R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1915	20,523.49	80.00	256.54	8.97	2,300.21
1916	840.11	80.00	10.50	9.20	96.64
1917	659.36	80.00	8.24	9.43	77.73
1919	738.61	80.00	9.23	9.91	91.51
1920	96,428.02	80.00	1,205.35	10.16	12,243.86
1921	563.05	80.00	7.04	10.41	73.25
1922	3,067.14	80.00	38.34	10.65	408.19
1924	823.92	80.00	10.30	11.16	114.95
1925	2,658.83	80.00	33.24	11.42	379.49
1926	30,554.36	80.00	381.93	11.69	4,462.96
1927	4,416.23	80.00	55.20	11.96	660.14
1928	6,770.12	80.00	84.63	12.24	1,035.65
1929	6,562.83	80.00	82.04	12.52	1,027.40
1930	202,971.73	80.00	2,537.14	12.81	32,497.82
1931	12,383.06	80.00	154.79	13.11	2,028.87
1932	22,940.85	80.00	286.76	13.41	3,846.52
1933	13,618.03	80.00	170.23	13.72	2,336.30
1934	3,744.60	80.00	46.81	14.05	657.48
1935	436,042.31	80.00	5,450.53	14.38	78,363.51
1936	336,776.82	80.00	4,209.71	14.72	61,954.17
1937	53,260.51	80.00	665.76	15.07	10,030.24
1938	48,980.71	80.00	612.26	15.42	9,443.00
1939	53,168.50	80.00	664.61	15.79	10,495.16
1940	17,800.78	80.00	222.51	16.17	3,597.95
1941	7,827.77	80.00	97.85	16.56	1,620.24
1942	31,558.19	80.00	394.48	16.96	6,689.63
1943	2,116,412.66	80.00	26,455.14	17.37	459,470.95

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1944	3,802.57	80.00	47.53	17.79	845.51
1945	37,528.71	80.00	469.11	18.22	8,547.55
1946	91,816.83	80.00	1,147.71	18.66	21,419.96
1947	22,657.67	80.00	283.22	19.12	5,414.10
1948	4,735.42	80.00	59.19	19.58	1,158.98
1949	2,840.92	80.00	35.51	20.06	712.24
1950	62,809.51	80.00	785.12	20.54	16,128.49
1951	9,154.61	80.00	114.43	21.04	2,407.56
1952	3,036.89	80.00	37.96	21.55	817.90
1953	411,491.67	80.00	5,143.64	22.06	113,482.18
1954	205,672.88	80.00	2,570.91	22.59	58,089.56
1955	84,314.88	80.00	1,053.94	23.13	24,381.16
1956	35,887.80	80.00	448.60	23.68	10,623.54
1957	876,983.27	80.00	10,962.28	24.24	265,762.51
1958	40,912.53	80.00	511.41	24.81	12,689.24
1961	44,223.63	80.00	552.79	26.57	14,690.19
1962	44,999.85	80.00	562.50	27.19	15,291.59
1963	29,697.40	80.00	371.22	27.80	10,319.99
1965	300,616.96	80.00	3,757.71	29.06	109,197.03
1966	20,978,961.30	80.00	262,236.83	29.70	7,788,671.60
1968	34,034.82	80.00	425.43	31.01	13,191.42
1969	393,211.46	80.00	4,915.14	31.67	155,668.27
1970	773,229.81	80.00	9,665.37	32.35	312,656.14
1971	7,054.86	80.00	88.19	33.03	2,912.63
1972	6,136,527.70	80.00	76,706.54	33.72	2,586,217.26
1974	110,771.85	80.00	1,384.65	35.12	48,622.91
1975	3,718,066.89	80.00	46,475.80	35.82	1,664,984.67

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1976	299,586.75	80.00	3,744.83	36.54	136,837.07
1977	179,297.98	80.00	2,241.22	37.26	83,512.71
1978	77,907.33	80.00	973.84	37.99	37,001.04
1979	96,739.39	80.00	1,209.24	38.73	46,834.72
1980	3,199,201.12	80.00	39,989.99	39.47	1,578,501.52
1982	19,163.32	80.00	239.54	40.98	9,815.95
1983	24,382,464.80	80.00	304,780.60	41.74	12,721,192.44
1984	2,786,636.26	80.00	34,832.93	42.51	1,480,583.83
1985	3,470,258.69	80.00	43,378.20	43.28	1,877,294.43
1986	1,036,161.52	80.00	12,952.01	44.06	570,654.57
1987	1,001,848.25	80.00	12,523.09	44.84	561,579.75
1988	2,963,908.45	80.00	37,048.83	45.63	1,690,660.40
1989	2,329,834.01	80.00	29,122.90	46.43	1,352,205.58
1990	5,998,252.65	80.00	74,978.11	47.23	3,541,408.25
1992	5,271,178.25	80.00	65,889.68	48.85	3,218,783.43
1993	6,403,723.65	80.00	80,046.49	49.67	3,975,745.21
1994	592,504.88	80.00	7,406.31	50.49	373,969.14
1995	10,206,561.00	80.00	127,581.92	51.32	6,547,649.49
1996	416,899.43	80.00	5,211.24	52.15	271,785.44
1997	3,277,549.29	80.00	40,969.34	52.99	2,171,098.24
1998	3,169,055.68	80.00	39,613.17	53.84	2,132,623.91
1999	2,446,099.42	80.00	30,576.22	54.68	1,672,022.77
2000	3,478,741.87	80.00	43,484.24	55.54	2,414,930.73
2001	1,788,885.37	80.00	22,361.05	56.39	1,260,988.20
2002	3,113,924.83	80.00	38,924.03	57.26	2,228,630.67
2003	2,130,695.41	80.00	26,633.67	58.12	1,547,996.33
2004	1,180,826.56	80.00	14,760.32	58.99	870,737.55

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2005	7,367,034.62	80.00	92,087.87	59.87	5,512,917.82
2006	1,884,870.57	80.00	23,560.87	60.75	1,431,242.33
2007	6,265,481.26	80.00	78,318.46	61.63	4,826,714.82
2008	8,378,286.42	80.00	104,728.51	62.52	6,547,192.51
2009	7,851,921.60	80.00	98,148.95	63.41	6,223,239.37
2010	5,154,879.50	80.00	64,435.95	64.30	4,143,382.64
2011	3,143,153.17	80.00	39,289.39	65.20	2,561,685.25
2012	2,043,306.15	80.00	25,541.31	66.10	1,688,330.43
2013	4,143,211.79	80.00	51,790.11	67.01	3,470,366.41
2014	12,085,120.84	80.00	151,063.90	67.92	10,259,816.58
2015	5,345,020.57	80.00	66,812.71	68.83	4,598,650.98
2016	5,939,504.73	80.00	74,243.76	69.74	5,178,054.19
2017	15,499,350.91	80.00	193,741.75	70.66	13,690,166.78
2018	2,820,212.96	80.00	35,252.64	71.58	2,523,549.69
2019	13,392,262.57	80.00	167,403.17	72.51	12,138,227.93
2020	3,497,016.10	80.00	43,712.67	73.44	3,210,079.61
2021	5,357,659.44	80.00	66,970.70	74.37	4,980,386.28
2022	4,634,586.09	80.00	57,932.29	75.30	4,362,262.37
2023	5,000,321.01	80.00	62,503.97	76.23	4,764,956.85
2024	9,625,053.19	80.00	120,313.08	77.17	9,284,800.79
2025	11,150,622.18	80.00	139,382.68	78.11	10,887,439.20
2026	7,815,933.92	80.00	97,699.11	79.06	7,723,639.56
2027	3,788,436.33	80.00	47,355.42	79.76	3,777,249.72
Total	281,498,287.36	80.00	3,518,726.13	57.44	202,130,303.48

Composite Average Remaining Life ... 57.44 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1916	1,708.78	0.00	0.00	0.00	0.00
1917	10,281.95	0.00	0.00	0.00	0.00
1921	3,433.61	0.00	0.00	0.00	0.00
1924	2,497.63	0.00	0.00	0.00	0.00
1925	119,480.19	0.00	0.00	0.00	0.00
1926	122,584.31	0.00	0.00	0.00	0.00
1927	26,288.09	0.00	0.00	0.00	0.00
1928	18,205.30	0.00	0.00	0.00	0.00
1930	94,830.36	50.00	1,896.61	0.65	1,229.28
1931	62,750.03	50.00	1,255.00	0.81	1,010.80
1932	11,684.90	50.00	233.70	0.97	227.04
1933	3,378.29	50.00	67.57	1.14	77.33
1934	8,669.66	50.00	173.39	1.32	229.33
1935	56,776.01	50.00	1,135.52	1.50	1,708.89
1936	107,860.35	50.00	2,157.21	1.69	3,647.26
1937	62,178.87	50.00	1,243.58	1.88	2,337.48
1938	64,062.39	50.00	1,281.25	2.07	2,654.24
1939	89,725.61	50.00	1,794.51	2.27	4,067.19
1940	29,683.47	50.00	593.67	2.46	1,462.81
1941	5,280.49	50.00	105.61	2.66	281.38
1942	61,265.61	50.00	1,225.31	2.87	3,513.67
1943	2,071,453.41	50.00	41,429.07	3.07	127,337.55
1944	12,325.36	50.00	246.51	3.28	809.19
1945	10,687.30	50.00	213.75	3.49	746.95
1946	65,615.97	50.00	1,312.32	3.71	4,868.18
1947	52,069.58	50.00	1,041.39	3.93	4,090.33
1948	10,251.91	50.00	205.04	4.15	850.74

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1949	7,951.50	50.00	159.03	4.37	695.58
1950	45,066.63	50.00	901.33	4.60	4,148.03
1951	23,745.82	50.00	474.92	4.83	2,295.69
1952	12,328.08	50.00	246.56	5.07	1,249.91
1953	603,126.13	50.00	12,062.52	5.31	64,035.44
1954	290,165.90	50.00	5,803.32	5.55	32,219.30
1955	122,165.89	50.00	2,443.32	5.80	14,169.36
1956	68,536.97	50.00	1,370.74	6.05	8,294.12
1957	34,726.87	50.00	694.54	6.31	4,380.36
1958	53,825.07	50.00	1,076.50	6.57	7,069.90
1961	78,437.58	50.00	1,568.75	7.38	11,575.18
1962	47,470.15	50.00	949.40	7.66	7,271.82
1963	45,709.85	50.00	914.20	7.95	7,263.91
1965	60,583.02	50.00	1,211.66	8.54	10,342.45
1966	4,477,233.63	50.00	89,544.68	8.84	791,576.88
1968	34,747.92	50.00	694.96	9.47	6,579.99
1969	76,873.36	50.00	1,537.47	9.79	15,055.79
1970	144,982.60	50.00	2,899.65	10.12	29,356.89
1971	13,528.58	50.00	270.57	10.46	2,831.13
1972	1,023,775.62	50.00	20,475.51	10.81	221,352.40
1974	8,883.40	50.00	177.67	11.53	2,048.43
1975	592,706.49	50.00	11,854.13	11.90	141,089.09
1977	42,325.14	50.00	846.50	12.68	10,729.45
1979	34,110.25	50.00	682.21	13.49	9,201.27
1980	1,183,440.38	50.00	23,668.81	13.91	329,223.15
1983	803,941.88	50.00	16,078.84	15.24	245,101.29
1984	133,148.93	50.00	2,662.98	15.71	41,842.06

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1985	763,969.43	50.00	15,279.39	16.19	247,434.89
1986	204,386.75	50.00	4,087.74	16.69	68,219.18
1987	235,353.23	50.00	4,707.06	17.20	80,947.86
1988	294,291.32	50.00	5,885.83	17.72	104,294.04
1989	21,340.67	50.00	426.81	18.26	7,792.10
1990	1,667,969.55	50.00	33,359.39	18.81	627,435.33
1992	570,990.30	50.00	11,419.81	19.96	227,924.65
1993	357,698.08	50.00	7,153.96	20.56	147,071.19
1994	239,645.58	50.00	4,792.91	21.17	101,484.59
1995	2,828,882.56	50.00	56,577.65	21.81	1,233,773.92
1996	171,302.11	50.00	3,426.04	22.46	76,938.19
1997	1,034,401.35	50.00	20,688.03	23.12	478,402.22
1998	488,699.35	50.00	9,773.99	23.81	232,720.18
1999	594,590.05	50.00	11,891.80	24.51	291,513.01
2000	572,993.30	50.00	11,459.87	25.24	289,196.64
2001	379,015.40	50.00	7,580.31	25.98	196,904.03
2002	745,940.74	50.00	14,918.82	26.73	398,842.21
2003	627,699.86	50.00	12,554.00	27.51	345,371.58
2004	601,704.18	50.00	12,034.08	28.31	340,633.56
2005	2,283,152.98	50.00	45,663.06	29.12	1,329,639.23
2006	170,942.66	50.00	3,418.85	29.95	102,390.64
2007	2,052,406.49	50.00	41,048.13	30.80	1,264,132.32
2008	2,385,073.39	50.00	47,701.47	31.66	1,510,252.48
2009	238,746.39	50.00	4,774.93	32.54	155,379.43
2010	783,231.82	50.00	15,664.64	33.44	523,765.34
2011	1,314,361.55	50.00	26,287.23	34.35	902,863.93
2012	96,965.97	50.00	1,939.32	35.27	68,398.97

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2013	1,061,651.69	50.00	21,233.04	36.21	768,754.14
2014	2,194,126.53	50.00	43,882.53	37.15	1,630,367.72
2015	5,518,736.55	50.00	110,374.74	38.11	4,206,458.95
2016	283,117.02	50.00	5,662.34	39.08	221,270.09
2017	406,371.52	50.00	8,127.43	40.05	325,521.11
2018	185,756.03	50.00	3,715.12	41.03	152,444.28
2019	153,154.22	50.00	3,063.08	42.02	128,711.58
2020	686,913.25	50.00	13,738.27	43.01	590,901.61
2021	448,215.72	50.00	8,964.31	44.01	394,481.80
2022	1,007,192.84	50.00	20,143.86	45.00	906,525.72
2023	923,444.93	50.00	18,468.90	46.00	849,586.95
2024	1,617,239.57	50.00	32,344.79	47.00	1,520,213.64
2025	1,685,589.28	50.00	33,711.79	48.00	1,618,166.97
2026	1,906,007.77	50.00	38,120.16	49.00	1,867,887.84
2027	930,211.76	50.00	18,604.24	49.75	925,560.65
Total	53,982,050.81	45.83	1,073,551.49	27.61	29,642,723.25

Composite Average Remaining Life ... 27.61 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1931	10,084.38	0.00	0.00	0.00	0.00
1932	11,211.00	0.00	0.00	0.00	0.00
1933	1,157.00	0.00	0.00	0.00	0.00
1934	5,593.14	0.00	0.00	0.00	0.00
1935	43,471.92	0.00	0.00	0.00	0.00
1936	97,516.37	0.00	0.00	0.00	0.00
1937	43,969.37	0.00	0.00	0.00	0.00
1938	49,527.62	0.00	0.00	0.00	0.00
1939	40,079.54	0.00	0.00	0.00	0.00
1940	14,484.54	0.00	0.00	0.00	0.00
1941	2,977.45	0.00	0.00	0.00	0.00
1942	35,884.11	0.00	0.00	0.00	0.00
1943	2,681,174.70	0.00	0.00	0.00	0.00
1944	12,035.25	0.00	0.00	0.00	0.00
1945	9,883.91	0.00	0.00	0.00	0.00
1946	41,722.50	0.00	0.00	0.00	0.00
1947	33,752.47	0.00	0.00	0.00	0.00
1948	2,883.04	47.00	61.34	0.50	30.67
1949	3,140.75	47.00	66.82	0.54	35.91
1950	11,627.93	47.00	247.40	0.69	171.92
1951	6,404.14	47.00	136.26	0.89	121.56
1952	3,351.56	47.00	71.31	1.11	78.94
1953	453,658.76	47.00	9,652.34	1.31	12,646.23
1954	96,142.27	47.00	2,045.59	1.56	3,186.31
1955	36,429.82	47.00	775.10	1.81	1,399.23
1956	19,650.41	47.00	418.09	2.05	859.16
1957	161,062.92	47.00	3,426.88	2.31	7,906.27

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1958	14,245.92	47.00	303.11	2.56	776.38
1961	10,615.34	47.00	225.86	3.32	749.53
1962	15,649.96	47.00	332.98	3.58	1,191.01
1963	7,038.40	47.00	149.75	3.84	574.32
1965	53,591.71	47.00	1,140.25	4.35	4,965.06
1966	8,823,991.30	47.00	187,744.97	4.62	866,935.41
1968	11,645.48	47.00	247.78	5.16	1,278.27
1969	7,887.07	47.00	167.81	5.43	912.01
1970	359,809.59	47.00	7,655.54	5.73	43,840.54
1971	9,742.84	47.00	207.29	6.03	1,249.98
1972	578,146.49	47.00	12,301.02	6.35	78,065.63
1973	2,200.98	47.00	46.83	6.68	312.68
1974	8,059.17	47.00	171.47	7.02	1,204.31
1975	1,619,022.31	47.00	34,447.37	7.39	254,444.86
1976	52,346.22	47.00	1,113.75	7.77	8,650.94
1977	54,975.21	47.00	1,169.69	8.17	9,553.41
1978	31,761.76	47.00	675.78	8.59	5,802.84
1979	43,892.32	47.00	933.88	9.03	8,429.15
1980	778,787.22	47.00	16,569.98	9.49	157,167.53
1981	70,617.03	47.00	1,502.49	9.96	14,971.48
1982	58,190.81	47.00	1,238.11	10.46	12,955.51
1983	282,004.02	47.00	6,000.10	10.98	65,903.02
1984	246,076.85	47.00	5,235.69	11.53	60,345.10
1985	1,662,326.20	47.00	35,368.73	12.09	427,441.95
1986	222,889.19	47.00	4,742.34	12.66	60,056.66
1987	747,613.82	47.00	15,906.72	13.26	210,940.65
1988	324,389.38	47.00	6,901.92	13.88	95,772.51

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1989	307,266.48	47.00	6,537.60	14.51	94,851.79
1990	3,418,087.95	47.00	72,725.46	15.16	1,102,356.72
1991	78,164.24	47.00	1,663.07	15.82	26,314.74
1992	454,051.03	47.00	9,660.68	16.51	159,460.15
1993	746,576.77	47.00	15,884.65	17.20	273,245.69
1994	247,543.75	47.00	5,266.90	17.91	94,339.79
1995	6,415,372.85	47.00	136,497.64	18.64	2,543,690.34
1996	128,373.89	47.00	2,731.37	19.37	52,912.51
1997	434,181.64	47.00	9,237.93	20.12	185,882.47
1998	398,430.58	47.00	8,477.27	20.88	177,034.74
1999	275,413.49	47.00	5,859.88	21.66	126,908.81
2000	1,032,626.41	47.00	21,970.83	22.44	493,129.18
2001	361,024.06	47.00	7,681.38	23.24	178,529.41
2002	475,921.40	47.00	10,126.01	24.05	243,530.64
2003	581,343.89	47.00	12,369.05	24.87	307,605.66
2004	948,001.71	47.00	20,170.30	25.70	518,346.99
2005	2,826,407.31	47.00	60,136.48	26.54	1,595,925.86
2006	998,500.87	47.00	21,244.75	27.39	581,858.81
2007	692,370.48	47.00	14,731.32	28.25	416,132.42
2008	2,554,725.14	47.00	54,355.99	29.12	1,582,795.99
2009	2,499,139.08	47.00	53,173.31	30.00	1,595,088.55
2010	959,858.83	47.00	20,422.58	30.89	630,765.97
2011	234,979.02	47.00	4,999.57	31.78	158,896.91
2012	244,065.13	47.00	5,192.89	32.69	169,739.24
2013	567,485.59	47.00	12,074.19	33.60	405,687.40
2014	644,205.22	47.00	13,706.53	34.52	473,146.87
2015	1,272,903.79	47.00	27,083.13	35.45	960,023.92

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *47* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2016	680,818.87	47.00	14,485.54	36.38	527,022.98
2017	2,245,670.49	47.00	47,780.34	37.32	1,783,332.51
2018	745,891.37	47.00	15,870.07	38.27	607,354.63
2019	408,232.69	47.00	8,685.82	39.22	340,683.65
2020	975,566.42	47.00	20,756.78	40.18	834,021.65
2021	986,004.44	47.00	20,978.87	41.14	863,138.61
2022	1,384,364.93	47.00	29,454.65	42.11	1,240,342.06
2023	2,690,297.63	47.00	57,240.52	43.08	2,465,996.47
2024	2,706,854.19	47.00	57,592.79	44.06	2,537,344.21
2025	3,977,098.06	47.00	84,619.32	45.03	3,810,814.89
2026	10,654,773.46	47.00	226,697.88	46.02	10,431,728.55
2027	6,170,784.56	47.00	131,293.62	46.75	6,138,428.77
Total	83,449,771.17	38.41	1,708,839.32	28.76	49,149,337.48

Composite Average Remaining Life ... 28.76 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
364.00 Flow Measuring Devices
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 15 **Survivor Curve:** L2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1989	7,979.00	15.00	531.93	0.92	490.12
1990	3,478.54	15.00	231.90	1.09	251.68
1991	8,740.98	15.00	582.73	1.25	728.06
1992	6,784.52	15.00	452.30	1.42	642.93
1999	51,368.90	15.00	3,424.58	2.76	9,449.12
2001	7,764.93	15.00	517.66	3.19	1,649.72
2002	4,455.38	15.00	297.02	3.41	1,013.38
2004	2,628.68	15.00	175.24	3.88	679.81
2005	8,722.16	15.00	581.48	4.12	2,397.63
2006	15,631.29	15.00	1,042.08	4.37	4,555.02
2007	9,030.61	15.00	602.04	4.62	2,782.54
2008	29,418.95	15.00	1,961.26	4.87	9,558.63
2009	92,082.61	15.00	6,138.83	5.12	31,445.97
2010	29,477.55	15.00	1,965.17	5.37	10,548.21
2011	53,822.99	15.00	3,588.19	5.61	20,127.11
2013	26,874.75	15.00	1,791.65	6.09	10,910.65
2014	152,277.99	15.00	10,151.84	6.34	64,394.36
2015	112,570.79	15.00	7,504.70	6.62	49,669.76
2016	5,515.89	15.00	367.73	6.93	2,548.54
2018	1,269.20	15.00	84.61	7.73	653.98
2020	30,025.23	15.00	2,001.68	8.86	17,742.83
2021	21,591.05	15.00	1,439.40	9.58	13,786.15
2024	57,960.15	15.00	3,864.00	12.10	46,763.48
Total	739,472.14	15.00	49,298.02	6.14	302,789.69

Composite Average Remaining Life ... 6.14 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
365.00 Flow Measuring Installations

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *25* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1970	30,360.76	0.00	0.00	0.00	0.00
1991	227,265.28	25.00	9,090.61	2.92	26,506.51
2009	14,938.00	25.00	597.52	9.69	5,790.30
Total	272,564.04	16.67	9,688.13	3.33	32,296.81

Composite Average Remaining Life ... 3.33 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
370.00 Receiving Wells

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2007	6,261.10	50.00	125.22	31.16	3,902.38
2009	92,112.20	50.00	1,842.24	32.93	60,670.76
2013	33,467.05	50.00	669.34	36.57	24,475.56
2017	1,547.02	50.00	30.94	40.31	1,247.19
2019	544,001.01	50.00	10,880.01	42.22	459,301.10
Total	677,388.38	50.00	13,547.76	40.57	549,597.00

Composite Average Remaining Life ... *40.57 Years*

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
371.00 Pumping Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 30 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1968	43,537.43	30.00	1,451.24	0.50	725.62
1985	23,931.70	30.00	797.72	6.17	4,923.87
1986	78,755.03	30.00	2,625.16	6.53	17,137.54
1987	7,538.75	30.00	251.29	6.89	1,730.62
1989	24,959.60	30.00	831.98	7.62	6,339.81
1990	1,830.59	30.00	61.02	7.99	487.76
1992	111,067.53	30.00	3,702.24	8.76	32,424.96
1993	161,450.75	30.00	5,381.68	9.15	49,237.99
1994	15,602.60	30.00	520.09	9.55	4,965.29
1996	55,848.44	30.00	1,861.61	10.36	19,293.27
1997	42,929.52	30.00	1,430.98	10.78	15,430.97
1998	107,358.54	30.00	3,578.61	11.21	40,120.97
1999	535,319.69	30.00	17,843.95	11.65	207,843.51
2001	14,819.76	30.00	493.99	12.55	6,198.72
2002	60,786.29	30.00	2,026.21	13.01	26,368.13
2003	119,405.30	30.00	3,980.17	13.49	53,689.15
2004	164,629.92	30.00	5,487.65	13.98	76,694.37
2005	100,511.00	30.00	3,350.36	14.47	48,495.64
2006	40,675.72	30.00	1,355.85	14.99	20,318.28
2007	5,976.90	30.00	199.23	15.51	3,089.91
2008	918,606.85	30.00	30,620.16	16.05	491,374.77
2009	592,997.19	30.00	19,766.53	16.60	328,111.13
2010	520,149.47	30.00	17,338.28	17.17	297,632.02
2011	66,367.45	30.00	2,212.24	17.75	39,267.18
2012	41,542.94	30.00	1,384.76	18.35	25,409.83
2013	59,887.39	30.00	1,996.24	18.97	37,861.95
2014	1,677,270.11	30.00	55,908.89	19.60	1,095,995.27

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
371.00 Pumping Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 30 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2015	230,646.95	30.00	7,688.22	20.26	155,749.80
2016	614,555.78	30.00	20,485.15	20.93	428,821.19
2017	393,461.38	30.00	13,115.35	21.63	283,696.43
2018	469,352.88	30.00	15,645.06	22.35	349,660.45
2019	3,669,520.16	30.00	122,317.08	23.09	2,824,446.50
2020	645,615.09	30.00	21,520.46	23.86	513,445.74
2021	200,035.46	30.00	6,667.83	24.65	164,360.97
2022	2,626,111.15	30.00	87,536.86	25.47	2,229,312.31
2023	2,042,520.43	30.00	68,083.87	26.31	1,791,516.84
2024	1,052,785.16	30.00	35,092.77	27.19	954,062.94
2025	2,751,246.88	30.00	91,708.04	28.09	2,576,079.64
2026	360,011.44	30.00	12,000.36	29.03	348,334.03
2027	119,732.13	30.00	3,991.06	29.75	118,741.89
Total	20,769,351.35	30.00	692,310.26	22.66	15,689,397.24

Composite Average Remaining Life ... 22.66 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
380.00 Treatment Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S1.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1951	869,028.06	0.00	0.00	0.00	0.00
1957	9,841.23	0.00	0.00	0.00	0.00
1963	77,378.12	35.00	2,210.80	1.60	3,541.16
1965	82,103.66	35.00	2,345.82	2.10	4,930.82
1967	159,748.96	35.00	4,564.26	2.60	11,883.44
1969	2,116.01	35.00	60.46	3.11	187.87
1973	934.98	35.00	26.71	4.12	110.06
1981	2,335,686.36	35.00	66,733.89	6.31	421,253.57
1984	577,017.16	35.00	16,486.20	7.23	119,177.41
1985	473,103.53	35.00	13,517.24	7.55	102,042.95
1986	714,890.40	35.00	20,425.44	7.88	160,908.05
1987	143,376.89	35.00	4,096.48	8.22	33,655.02
1988	803,720.20	35.00	22,963.43	8.56	196,632.95
1989	1,175,516.70	35.00	33,586.19	8.92	299,610.98
1990	2,516,545.54	35.00	71,901.30	9.29	667,835.84
1991	2,220,238.53	35.00	63,435.38	9.67	613,234.63
1992	797,780.53	35.00	22,793.73	10.06	229,253.61
1993	3,113,751.23	35.00	88,964.31	10.46	930,641.16
1994	58,236.15	35.00	1,663.89	10.88	18,098.03
1995	7,305.96	35.00	208.74	11.31	2,360.18
1996	78,290.66	35.00	2,236.88	11.75	26,283.73
1997	19,971.86	35.00	570.62	12.21	6,966.92
1998	3,723,812.92	35.00	106,394.65	12.68	1,349,516.26
1999	1,072,778.34	35.00	30,650.81	13.18	403,830.33
2000	5,173.73	35.00	147.82	13.68	2,022.69
2001	1,758,916.41	35.00	50,254.75	14.21	714,080.80
2002	619,740.95	35.00	17,706.88	14.75	261,237.87

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
380.00 Treatment Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S1.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2003	2,037,025.78	35.00	58,200.73	15.32	891,375.87
2004	696,637.40	35.00	19,903.92	15.90	316,451.01
2005	2,237,683.28	35.00	63,933.80	16.50	1,055,074.82
2006	691,002.47	35.00	19,742.93	17.13	338,140.45
2007	56,074.46	35.00	1,602.13	17.77	28,474.76
2008	933,875.01	35.00	26,682.14	18.44	492,040.93
2009	18,903,175.91	35.00	540,090.70	19.13	10,332,344.91
2010	21,338,710.76	35.00	609,677.41	19.84	12,097,009.22
2011	7,082,121.17	35.00	202,346.31	20.58	4,163,731.51
2012	4,792,712.70	35.00	136,934.64	21.34	2,921,571.14
2013	3,048,389.90	35.00	87,096.85	22.12	1,926,265.16
2014	8,801,285.00	35.00	251,465.27	22.92	5,763,471.66
2015	1,026,201.69	35.00	29,320.05	23.74	696,196.49
2016	540,948.41	35.00	15,455.67	24.59	380,075.49
2017	651,445.92	35.00	18,612.74	25.46	473,832.73
2018	4,753,330.11	35.00	135,809.42	26.35	3,577,920.31
2019	1,905,200.06	35.00	54,434.28	27.25	1,483,422.31
2020	8,553,773.25	35.00	244,393.50	28.18	6,885,936.63
2021	10,536,512.36	35.00	301,043.19	29.12	8,765,111.74
2022	11,385,788.79	35.00	325,308.23	30.07	9,782,228.31
2023	11,445,225.10	35.00	327,006.41	31.04	10,149,789.71
2024	4,163,228.27	35.00	118,949.37	32.02	3,808,405.53
2025	4,713,706.90	35.00	134,677.33	33.01	4,445,095.67
2026	3,361,450.74	35.00	96,041.44	34.00	3,265,484.48
2027	1,824,026.48	35.00	52,115.04	34.75	1,810,996.20

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
380.00 Treatment Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	158,896,536.99	33.65	4,514,790.19	22.69	102,429,743.34

Composite Average Remaining Life ... *22.69 Years*

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
381.00 Plant Sewers

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2008	294,411.86	50.00	5,888.23	32.04	188,683.84
2009	4,434,866.70	50.00	88,697.29	32.93	2,921,075.78
2010	1,187,964.50	50.00	23,759.28	33.83	803,778.18
2011	6,597.06	50.00	131.94	34.73	4,582.96
2012	1,684.33	50.00	33.69	35.65	1,200.83
2014	234,044.45	50.00	4,680.89	37.49	175,500.50
2015	4,256.52	50.00	85.13	38.43	3,271.20
2016	45,239.43	50.00	904.79	39.36	35,616.82
2021	1,641.43	50.00	32.83	44.14	1,449.04
2022	431,044.32	50.00	8,620.88	45.11	388,871.34
2025	13,045.20	50.00	260.90	48.03	12,532.40
Total	6,654,795.80	50.00	133,095.85	34.08	4,536,562.89

Composite Average Remaining Life ... 34.08 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
382.00 Outfall Sewer Lines

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1957	12,139.53	50.00	242.79	3.59	871.54
1975	4,177.28	50.00	83.55	9.19	767.76
1993	192,691.50	50.00	3,853.83	19.86	76,521.73
2004	1,695.94	50.00	33.92	28.58	969.24
2005	9,240.93	50.00	184.82	29.43	5,439.04
2006	201,117.58	50.00	4,022.35	30.29	121,844.77
2009	26,051.26	50.00	521.02	32.93	17,158.96
2010	27,827.93	50.00	556.56	33.83	18,828.41
2014	100,305.10	50.00	2,006.10	37.49	75,214.75
2017	18,433.32	50.00	368.67	40.31	14,860.78
2023	33,315.31	50.00	666.31	46.08	30,703.55
Total	626,995.68	50.00	12,539.91	28.96	363,180.54

Composite Average Remaining Life ... 28.96 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
389.10 Other Plant - Intangibles

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2010	273,149.74	20.00	13,657.49	6.39	87,221.45
2013	8,814.50	20.00	440.73	7.99	3,520.10
2022	91,911.93	20.00	4,595.60	15.05	69,175.00
2023	1,990,538.30	20.00	99,526.92	16.02	1,594,516.39
2024	272,366.55	20.00	13,618.33	17.01	231,595.62
2025	22,280.04	20.00	1,114.00	18.00	20,053.20
Total	2,659,061.06	20.00	132,953.06	15.09	2,006,081.76

Composite Average Remaining Life ... 15.09 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
391.00 Transportation Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 14 **Survivor Curve:** L4

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1986	6,625.93	0.00	0.00	0.00	0.00
1987	468.88	0.00	0.00	0.00	0.00
1990	30,431.59	0.00	0.00	0.00	0.00
1991	21,931.10	0.00	0.00	0.00	0.00
2000	5,861.06	14.00	418.64	0.69	287.93
2001	22,361.85	14.00	1,597.24	0.79	1,261.10
2002	5,389.24	14.00	384.94	0.90	348.13
2005	3,310.52	14.00	236.46	1.32	312.72
2006	73,113.90	14.00	5,222.30	1.49	7,778.05
2011	149,228.96	14.00	10,658.97	2.49	26,548.91
2012	73,865.31	14.00	5,275.97	2.64	13,925.89
2013	62,726.96	14.00	4,480.40	2.78	12,460.82
2014	3,075.33	14.00	219.66	2.99	657.44
2016	2,423.80	14.00	173.12	3.89	674.05
2017	8,526.46	14.00	609.02	4.58	2,791.63
2018	927,895.26	14.00	66,276.73	5.36	355,317.66
2019	299,081.56	14.00	21,362.48	6.20	132,409.77
2020	26,190.18	14.00	1,870.68	7.09	13,262.10
2022	1,422,366.36	14.00	101,595.29	9.01	914,923.38
2023	1,165,809.58	14.00	83,270.22	10.00	832,744.75
2024	422,529.36	14.00	30,179.98	11.00	331,989.41
2025	3,630.70	14.00	259.33	12.00	3,112.04
2026	266,576.00	14.00	19,040.71	13.00	247,535.29
2027	77,983.00	14.00	5,570.09	13.75	76,590.48

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
391.00 Transportation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *14* ***Survivor Curve:*** *L4*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	5,081,402.89	11.67	358,702.25	8.29	2,974,931.55

Composite Average Remaining Life ... 8.29 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
395.00 Power Operated Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *22* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2011	345,636.00	22.00	15,710.44	9.42	148,022.42
2015	3,257.24	22.00	148.05	12.13	1,795.95
2018	19,634.12	22.00	892.44	14.38	12,831.98
2022	64,677.17	22.00	2,939.82	17.62	51,800.94
2023	3,895.80	22.00	177.08	18.47	3,270.65
Total	437,100.33	22.00	19,867.84	10.96	217,721.94

Composite Average Remaining Life ... 10.96 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
354.20 Structures - Collection

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *43* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2026	465,513.27	43.00	10,825.97	42.02	454,863.40
2027	22,915,798.94	43.00	532,929.63	42.75	22,784,493.05
Total	23,381,312.21	43.00	543,755.60	42.74	23,239,356.45

Composite Average Remaining Life ... 42.74 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
354.30 Structures - SPP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1964	699,951.35	55.00	12,726.38	18.37	233,800.99
1969	27,685.26	55.00	503.37	20.54	10,338.56
1972	5,390.11	55.00	98.00	21.87	2,143.16
1979	312,467.50	55.00	5,681.22	25.07	142,419.92
1980	1,925,421.49	55.00	35,007.64	25.54	894,023.33
1981	1,006,124.74	55.00	18,293.16	26.01	475,813.20
1992	367,539.24	55.00	6,682.53	31.46	210,249.55
1999	101,094.83	55.00	1,838.09	35.23	64,755.51
2005	55,968.06	55.00	1,017.60	38.70	39,384.82
2010	464,545.22	55.00	8,446.27	41.82	353,214.39
2012	94,838.48	55.00	1,724.33	43.13	74,377.82
2013	22,305,947.27	55.00	405,562.40	43.81	17,767,038.08
2014	8,206,912.04	55.00	149,216.48	44.49	6,639,053.34
2016	592,801.05	55.00	10,778.19	45.90	494,771.45
2018	792,190.90	55.00	14,403.46	47.37	682,346.40
2023	9,247.84	55.00	168.14	51.36	8,635.00
Total	36,968,125.38	55.00	672,147.27	41.79	28,092,365.51

Composite Average Remaining Life ... 41.79 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1964	535,164.61	55.00	9,730.26	18.37	178,758.16
1965	1,945,016.40	55.00	35,363.91	18.80	664,848.06
1982	12,187,003.00	55.00	221,581.72	26.49	5,868,970.05
1993	445,465.16	55.00	8,099.36	31.98	259,056.56
1994	220,388.44	55.00	4,007.06	32.51	130,277.79
1995	91,800.02	55.00	1,669.09	33.04	55,154.25
2007	156,375.15	55.00	2,843.18	39.92	113,508.89
2011	840,813.68	55.00	15,287.51	42.47	649,279.96
2016	14,574.90	55.00	265.00	45.90	12,164.70
2017	164,519.97	55.00	2,991.27	46.63	139,488.20
2019	360,662.79	55.00	6,557.50	48.13	315,607.55
2022	54,845.32	55.00	997.19	50.52	50,374.90
2023	236,710.97	55.00	4,303.83	51.36	221,024.51
2024	9,360.58	55.00	170.19	52.22	8,887.16
2025	5,735.27	55.00	104.28	53.11	5,537.76
Total	17,268,436.26	55.00	313,971.35	27.62	8,672,938.49

Composite Average Remaining Life ... 27.62 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
354.70 Structures - General

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1966	145,801.64	55.00	2,650.94	19.23	50,980.93
1982	1,225,039.87	55.00	22,273.44	26.49	589,949.99
2003	628,157.38	55.00	11,421.04	37.52	428,472.88
2011	1,021,910.09	55.00	18,580.17	42.47	789,123.39
2012	719,107.69	55.00	13,074.68	43.13	563,965.84
2013	2,161,099.49	55.00	39,292.69	43.81	1,721,349.76
2015	122,608.96	55.00	2,229.25	45.19	100,744.68
2016	137,243.68	55.00	2,495.34	45.90	114,548.13
2020	9,134.74	55.00	166.09	48.91	8,122.57
2021	1,051,741.50	55.00	19,122.56	49.70	950,413.54
2023	54,795.46	55.00	996.28	51.36	51,164.25
2024	58,429.72	55.00	1,062.36	52.22	55,474.61
2025	30,491.59	55.00	554.39	53.11	29,441.52
2026	321,221.61	55.00	5,840.39	54.03	315,564.27
2027	611,271.13	55.00	11,114.01	54.76	608,550.60
Total	8,298,054.55	55.00	150,873.61	42.27	6,377,866.96

Composite Average Remaining Life ... 42.27 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
355.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1999	15,782.30	35.00	450.92	15.74	7,095.89
2000	52,360.25	35.00	1,496.00	16.22	24,268.99
2001	346,845.16	35.00	9,909.83	16.72	165,679.38
2005	41,623.25	35.00	1,189.23	18.81	22,371.76
2010	15,509.83	35.00	443.14	21.71	9,621.74
2013	621,166.53	35.00	17,747.57	23.63	419,450.43
2014	40,215.83	35.00	1,149.02	24.31	27,930.97
2016	74,060.67	35.00	2,116.01	25.71	54,406.52
2018	28,901.95	35.00	825.77	27.19	22,454.39
2021	63,989.80	35.00	1,828.28	29.57	54,069.79
2023	11,610.76	35.00	331.74	31.28	10,375.76
Total	1,312,066.33	35.00	37,487.51	21.81	817,725.61

Composite Average Remaining Life ... 21.81 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
360.10 Collection Sewers - Force Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1964	17,670.88	75.00	235.61	21.67	5,104.80
1969	43,735.32	75.00	583.14	24.88	14,508.48
1979	1,160,481.90	75.00	15,473.09	32.01	495,333.50
1980	3,297,197.01	75.00	43,962.63	32.77	1,440,659.52
2005	120,689.76	75.00	1,609.20	53.93	86,783.24
2010	48,159.59	75.00	642.13	58.58	37,613.27
2013	2,816,323.60	75.00	37,550.98	61.41	2,306,121.78
2016	85,454.40	75.00	1,139.39	64.28	73,241.74
2018	197,446.89	75.00	2,632.63	66.21	174,304.33
2023	76,315.55	75.00	1,017.54	71.07	72,319.41
2024	435,613.23	75.00	5,808.18	72.05	418,489.39
2025	135,260.74	75.00	1,803.48	73.03	131,712.51
2026	3,606.01	75.00	48.08	74.02	3,558.69
2027	3,606.01	75.00	48.08	74.75	3,594.18
Total	8,441,560.89	75.00	112,554.14	46.76	5,263,344.82

Composite Average Remaining Life ... 46.76 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *80* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1928	3,637,630.87	80.00	45,470.35	12.24	556,464.06
1935	4,023,274.17	80.00	50,290.89	14.38	723,044.30
1945	1,710,160.84	80.00	21,377.00	18.22	389,506.74
1954	1,186,915.36	80.00	14,836.43	22.59	335,228.40
1955	3,524,551.85	80.00	44,056.87	23.13	1,019,187.22
1960	5,223,193.78	80.00	65,289.88	25.98	1,696,108.10
1963	1,030,100.25	80.00	12,876.24	27.80	357,964.90
1964	2,079,750.68	80.00	25,996.87	28.42	738,934.60
1965	194,096.63	80.00	2,426.21	29.06	70,504.26
1967	443,614.20	80.00	5,545.17	30.35	168,296.60
1970	1,792,441.10	80.00	22,405.50	32.35	724,775.09
1972	271,120.53	80.00	3,389.00	33.72	114,262.76
1973	77,742.69	80.00	971.78	34.41	33,442.23
1974	3,482.95	80.00	43.54	35.12	1,528.83
1979	14,499,658.03	80.00	181,245.60	38.73	7,019,761.74
1980	24,689,428.45	80.00	308,617.64	39.47	12,181,885.07
1985	51,907.71	80.00	648.85	43.28	28,080.34
1986	92,090.74	80.00	1,151.13	44.06	50,717.96
1991	110,431.89	80.00	1,380.40	48.04	66,313.32
1993	842,780.76	80.00	10,534.75	49.67	523,239.56
1994	469,505.85	80.00	5,868.82	50.49	296,336.29
1997	195,777.96	80.00	2,447.22	52.99	129,686.28
1999	76,153.60	80.00	951.92	54.68	52,054.53
2000	295,646.82	80.00	3,695.58	55.54	205,237.01
2001	37,579.56	80.00	469.74	56.39	26,489.89
2002	704,945.07	80.00	8,811.81	57.26	504,527.98
2003	94,137.33	80.00	1,176.72	58.12	68,392.81

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
361.10 Collection Sewers - Gravity Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *80* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2004	359,867.28	80.00	4,498.34	58.99	265,364.93
2005	111,250.06	80.00	1,390.62	59.87	83,250.92
2006	283,486.98	80.00	3,543.58	60.75	215,260.70
2007	5,697,173.26	80.00	71,214.62	61.63	4,388,909.56
2008	119,833.64	80.00	1,497.92	62.52	93,643.72
2009	234,846.70	80.00	2,935.58	63.41	186,133.70
2010	245,335.06	80.00	3,066.69	64.30	197,195.11
2011	17,415.79	80.00	217.70	65.20	14,193.95
2012	3,754,870.86	80.00	46,935.85	66.10	3,102,551.59
2013	391,454.04	80.00	4,893.17	67.01	327,883.06
2014	4,325,043.65	80.00	54,063.01	67.92	3,671,800.65
2015	19,789.63	80.00	247.37	68.83	17,026.24
2016	566,691.56	80.00	7,083.64	69.74	494,041.13
2018	465,838.02	80.00	5,822.97	71.58	416,835.68
2019	113,300.54	80.00	1,416.26	72.51	102,691.22
2020	192,663.32	80.00	2,408.29	73.44	176,854.95
2021	284,879.57	80.00	3,560.99	74.37	264,819.05
2022	350,961.36	80.00	4,387.01	75.30	330,339.22
2023	276,107.66	80.00	3,451.34	76.23	263,111.33
2024	211,109.68	80.00	2,638.87	77.17	203,646.80
2025	126,609.78	80.00	1,582.62	78.11	123,621.47
2026	1,903,951.11	80.00	23,799.37	79.06	1,881,468.33
2027	8,018,398.73	80.00	100,229.91	79.76	7,994,721.75
Total	95,428,997.95	80.00	1,192,861.64	44.34	52,897,335.94

Composite Average Remaining Life ... 44.34 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1928	133,556.78	0.00	0.00	0.00	0.00
1935	142,923.76	50.00	2,858.48	1.50	4,301.85
1945	184,304.42	50.00	3,686.09	3.49	12,881.29
1954	139,593.31	50.00	2,791.87	5.55	15,500.10
1955	406,717.32	50.00	8,134.35	5.80	47,172.95
1960	619,841.51	50.00	12,396.83	7.10	88,056.65
1963	109,143.32	50.00	2,182.87	7.95	17,344.33
1964	318,037.52	50.00	6,360.75	8.24	52,398.14
1965	26,018.04	50.00	520.36	8.54	4,441.68
1967	40,634.41	50.00	812.69	9.15	7,436.70
1970	280,127.66	50.00	5,602.55	10.12	56,721.81
1972	6,426.32	50.00	128.53	10.81	1,389.45
1973	13,194.78	50.00	263.90	11.17	2,946.61
1979	2,334,275.62	50.00	46,685.52	13.49	629,672.57
1980	3,844,641.96	50.00	76,892.84	13.91	1,069,547.01
1985	33,650.94	50.00	673.02	16.19	10,898.89
1986	9,040.15	50.00	180.80	16.69	3,017.38
1991	15,506.88	50.00	310.14	19.38	6,009.11
1993	123,671.46	50.00	2,473.43	20.56	50,848.77
1994	54,664.84	50.00	1,093.30	21.17	23,149.35
1997	33,686.72	50.00	673.73	23.12	15,579.83
1999	14,805.69	50.00	296.11	24.51	7,258.87
2000	45,581.24	50.00	911.62	25.24	23,005.40
2001	30,843.29	50.00	616.87	25.98	16,023.54
2002	99,254.21	50.00	1,985.08	26.73	53,069.59
2003	478,011.02	50.00	9,560.22	27.51	263,010.13
2004	701,311.93	50.00	14,026.24	28.31	397,022.97

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2005	38,617.20	50.00	772.34	29.12	22,489.49
2006	57,803.32	50.00	1,156.07	29.95	34,622.83
2007	3,028.09	50.00	60.56	30.80	1,865.08
2008	78,067.24	50.00	1,561.34	31.66	49,432.96
2009	11,484.80	50.00	229.70	32.54	7,474.47
2010	56,286.31	50.00	1,125.73	33.44	37,639.97
2011	336,347.24	50.00	6,726.95	34.35	231,044.34
2012	485,106.42	50.00	9,702.13	35.27	342,189.95
2014	13,493.57	50.00	269.87	37.15	10,026.53
2016	103,973.46	50.00	2,079.47	39.08	81,260.45
2018	62,427.33	50.00	1,248.55	41.03	51,232.20
2019	62,386.00	50.00	1,247.72	42.02	52,429.51
2020	16,501.98	50.00	330.04	43.01	14,195.46
2021	140,858.75	50.00	2,817.18	44.01	123,972.03
2022	219,114.43	50.00	4,382.29	45.00	197,214.33
2023	49,274.81	50.00	985.50	46.00	45,333.77
2024	88,498.50	50.00	1,769.97	47.00	83,189.05
2025	36,190.85	50.00	723.82	48.00	34,743.24
2026	88,456.60	50.00	1,769.13	49.00	86,687.48
2027	89,523.39	50.00	1,790.47	49.75	89,075.77
Total	12,276,905.39	48.94	242,866.99	18.42	4,474,823.85

Composite Average Remaining Life ... 18.42 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1930	473,236.02	0.00	0.00	0.00	0.00
1935	515,912.25	0.00	0.00	0.00	0.00
1945	453,996.45	0.00	0.00	0.00	0.00
1954	95,864.12	47.00	2,039.67	1.56	3,177.09
1955	644,271.59	47.00	13,707.94	1.81	24,745.77
1960	790,470.95	47.00	16,818.57	3.07	51,692.29
1965	15,511.15	47.00	330.03	4.35	1,437.05
1967	3,838.04	47.00	81.66	4.89	398.93
1969	86,079.30	47.00	1,831.48	5.43	9,953.65
1970	119,594.09	47.00	2,544.56	5.73	14,571.79
1972	1,336.20	47.00	28.43	6.35	180.42
1973	4,522.36	47.00	96.22	6.68	642.46
1979	21,961.17	47.00	467.26	9.03	4,217.46
1980	4,271,406.47	47.00	90,881.22	9.49	862,015.16
1985	676.91	47.00	14.40	12.09	174.06
1986	3,701.60	47.00	78.76	12.66	997.38
1991	6,155.62	47.00	130.97	15.82	2,072.35
1993	68,060.03	47.00	1,448.09	17.20	24,909.84
1994	88,245.12	47.00	1,877.56	17.91	33,630.52
1997	11,290.25	47.00	240.22	20.12	4,833.60
1999	17,025.94	47.00	362.25	21.66	7,845.45
2000	70,672.68	47.00	1,503.68	22.44	33,749.63
2001	52,744.82	47.00	1,122.23	23.24	26,082.75
2002	397,170.52	47.00	8,450.46	24.05	203,233.54
2003	75,409.29	47.00	1,604.46	24.87	39,901.21
2004	56,276.34	47.00	1,197.37	25.70	30,770.69
2005	36,503.14	47.00	776.66	26.54	20,611.43

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *47* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2006	38,230.66	47.00	813.42	27.39	22,278.24
2007	108,136.78	47.00	2,300.79	28.25	64,992.98
2008	36,626.07	47.00	779.28	29.12	22,691.91
2009	58,578.27	47.00	1,246.35	30.00	37,387.89
2010	27,379.68	47.00	582.55	30.89	17,992.41
2011	70,751.01	47.00	1,505.34	31.78	47,843.07
2012	1,688,590.86	47.00	35,927.56	32.69	1,174,359.18
2014	375,617.55	47.00	7,991.88	34.52	275,878.34
2016	56,782.00	47.00	1,208.13	36.38	43,955.04
2018	20,409.09	47.00	434.24	38.27	16,618.45
2019	134,069.68	47.00	2,852.55	39.22	111,885.57
2020	45,544.78	47.00	969.04	40.18	38,936.70
2021	265,980.49	47.00	5,659.17	41.14	232,836.71
2022	121,919.62	47.00	2,594.04	42.11	109,235.67
2024	87,916.34	47.00	1,870.57	44.06	82,410.80
2025	237,501.24	47.00	5,053.23	45.03	227,571.27
2026	427,300.51	47.00	9,091.52	46.02	418,355.49
2027	386,529.20	47.00	8,224.05	46.75	384,502.48
Total	12,569,796.25	43.87	236,737.86	19.99	4,731,576.70

Composite Average Remaining Life ... 19.99 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
364.00 Flow Measuring Devices

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *15* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1999	176,385.00	15.00	11,758.97	2.76	32,445.36
2012	40,821.83	15.00	2,721.45	5.85	15,914.78
2023	10,799.01	15.00	719.93	11.21	8,073.35
2024	9,612.38	15.00	640.82	12.10	7,755.47
Total	237,618.22	15.00	15,841.17	4.05	64,188.97

Composite Average Remaining Life ... 4.05 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
371.00 Pumping Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *30* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1964	118,173.93	0.00	0.00	0.00	0.00
1969	1,754.87	30.00	58.50	0.78	45.47
1972	58,725.07	30.00	1,957.50	1.77	3,472.35
1981	860,898.94	30.00	28,696.57	4.79	137,333.07
1999	881,057.60	30.00	29,368.53	11.65	342,079.90
2004	17,144.53	30.00	571.48	13.98	7,986.94
2005	38,391.90	30.00	1,279.73	14.47	18,523.74
2009	133,979.66	30.00	4,465.98	16.60	74,132.25
2010	162,163.22	30.00	5,405.43	17.17	92,790.57
2011	462,765.23	30.00	15,425.48	17.75	273,801.14
2013	2,854,233.76	30.00	95,140.93	18.97	1,804,500.90
2015	52,281.72	30.00	1,742.72	20.26	35,304.47
2016	281,465.33	30.00	9,382.16	20.93	196,399.25
2018	300,246.29	30.00	10,008.19	22.35	223,678.72
2019	49,088.57	30.00	1,636.28	23.09	37,783.70
2023	20,899.72	30.00	696.66	26.31	18,331.37
2024	309,674.06	30.00	10,322.45	27.19	280,635.17
2025	5,474.48	30.00	182.48	28.09	5,125.93
2026	126,874.44	30.00	4,229.14	29.03	122,759.11
2027	435,079.61	30.00	14,502.62	29.75	431,481.29
Total	7,170,372.93	28.50	235,072.81	17.47	4,106,165.35

Composite Average Remaining Life ... 17.47 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
380.00 Treatment Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1966	206,795.47	35.00	5,908.44	2.35	13,901.23
1982	7,592,289.85	35.00	216,922.55	6.61	1,434,399.80
1991	230,693.77	35.00	6,591.25	9.67	63,718.11
1992	46,687.40	35.00	1,333.93	10.06	13,416.29
1993	2,226,563.12	35.00	63,616.08	10.46	665,477.46
1998	540,756.62	35.00	15,450.19	12.68	195,971.14
2000	558,692.80	35.00	15,962.65	13.68	218,422.60
2011	913,894.41	35.00	26,111.27	20.58	537,298.20
2014	3,859,624.94	35.00	110,274.99	22.92	2,527,453.54
2016	33,510.57	35.00	957.44	24.59	23,544.84
2018	20,087.37	35.00	573.92	26.35	15,120.14
2019	7,239,260.68	35.00	206,836.01	27.25	5,636,615.83
2020	211,980.56	35.00	6,056.59	28.18	170,648.05
2021	198,366.45	35.00	5,667.61	29.12	165,017.04
2022	350,456.35	35.00	10,013.04	30.07	301,098.51
2023	29,619.50	35.00	846.27	31.04	26,267.00
2024	621,436.16	35.00	17,755.32	32.02	568,472.53
2025	240,357.95	35.00	6,867.37	33.01	226,661.12
2026	327,419.04	35.00	9,354.83	34.00	318,071.53
2027	1,122,162.30	35.00	32,061.78	34.75	1,114,145.92
Total	26,570,655.31	35.00	759,161.53	18.75	14,235,720.89

Composite Average Remaining Life ... 18.75 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
382.00 Outfall Sewer Lines

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1965	73,525.14	50.00	1,470.50	5.70	8,380.18
Total	73,525.14	50.00	1,470.50	5.70	8,380.18

Composite Average Remaining Life ... 5.70 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
389.10 Other Plant - Intangibles
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2026	445,666.70	20.00	22,283.34	19.00	423,384.39
2027	3,645,333.00	20.00	182,266.66	19.75	3,599,766.44
Total	4,090,999.70	20.00	204,550.00	19.67	4,023,150.84

Composite Average Remaining Life ... 19.67 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
391.00 Transportation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *14* ***Survivor Curve:*** *L4*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2011	119,487.15	14.00	8,534.60	2.49	21,257.63
2014	13,147.84	14.00	939.11	2.99	2,810.71
2017	21,007.05	14.00	1,500.47	4.58	6,877.88
2018	31,168.11	14.00	2,226.24	5.36	11,935.16
2019	27,488.89	14.00	1,963.45	6.20	12,169.92
2020	28,863.43	14.00	2,061.63	7.09	14,615.77
2022	75,954.78	14.00	5,425.22	9.01	48,857.18
2023	68,311.66	14.00	4,879.29	10.00	48,795.43
2024	189,347.17	14.00	13,524.49	11.00	148,773.70
2025	99,173.31	14.00	7,083.65	12.00	85,006.02
Total	673,949.39	14.00	48,138.15	8.33	401,099.38

Composite Average Remaining Life ... 8.33 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
395.00 Power Operated Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *22* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1993	18,154.62	22.00	825.20	1.91	1,573.08
1997	39,291.32	22.00	1,785.94	3.07	5,483.59
2000	14,790.15	22.00	672.27	4.04	2,718.71
2001	2,322.53	22.00	105.57	4.40	465.00
2004	4,697.67	22.00	213.53	5.63	1,202.43
2011	22,500.91	22.00	1,022.75	9.42	9,636.26
2012	17,502.58	22.00	795.56	10.07	8,007.97
2015	35,730.49	22.00	1,624.08	12.13	19,700.82
2018	25,218.04	22.00	1,146.25	14.38	16,481.37
2019	7,634.66	22.00	347.02	15.16	5,262.43
2021	452,466.57	22.00	20,566.29	16.79	345,230.07
2023	11,478.29	22.00	521.73	18.47	9,636.39
Total	651,787.83	22.00	29,626.19	14.36	425,398.11

Composite Average Remaining Life ... 14.36 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.20 Structures - Collection

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *45* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2017	972,601.79	45.00	21,613.36	35.33	763,693.44
2018	1,915,914.38	45.00	42,575.85	36.28	1,544,593.91
2019	1,205,294.73	45.00	26,784.31	37.23	997,151.96
2020	173,082.00	45.00	3,846.26	38.18	146,869.04
2021	221,294.70	45.00	4,917.66	39.15	192,510.00
2022	2,199,493.71	45.00	48,877.61	40.11	1,960,610.46
2023	7,934,327.84	45.00	176,318.31	41.08	7,243,669.17
2024	29,574,402.01	45.00	657,208.62	42.06	27,640,279.36
2025	1,427,124.06	45.00	31,713.85	43.04	1,364,812.59
2026	545,091.52	45.00	12,113.14	44.02	533,174.50
2027	6,133,866.63	45.00	136,308.08	44.75	6,100,278.73
Total	52,302,493.37	45.00	1,162,277.08	41.72	48,487,643.15

Composite Average Remaining Life ... 41.72 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.30 Structures - SPP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1960	2,307,540.06	55.00	41,955.24	16.68	699,674.10
1968	671,326.79	55.00	12,205.93	20.10	245,345.77
1970	60,405.27	55.00	1,098.28	20.98	23,041.35
1972	430,021.03	55.00	7,818.56	21.87	170,980.70
1990	89,924.53	55.00	1,634.99	30.43	49,758.66
1995	131,932.60	55.00	2,398.77	33.04	79,266.25
1996	344,568.73	55.00	6,264.88	33.58	210,389.25
2000	105,072.37	55.00	1,910.41	35.79	68,376.58
2004	244,354.55	55.00	4,442.81	38.11	169,297.77
2005	52,725.90	55.00	958.65	38.70	37,103.31
2006	2,611,533.23	55.00	47,482.39	39.31	1,866,495.56
2011	7,145.91	55.00	129.93	42.47	5,518.10
2012	7,147.63	55.00	129.96	43.13	5,605.58
2013	148,319.26	55.00	2,696.71	43.81	118,138.62
2014	10,489,746.72	55.00	190,722.54	44.49	8,485,772.44
2015	40,952.90	55.00	744.60	45.19	33,649.96
2017	762,725.81	55.00	13,867.73	46.63	646,676.82
2018	1,526,953.41	55.00	27,762.77	47.37	1,315,227.37
2019	446,541.64	55.00	8,118.93	48.13	390,758.12
2020	2,544,665.64	55.00	46,266.62	48.91	2,262,705.44
2021	237,091.40	55.00	4,310.75	49.70	214,249.30
2023	2,377,007.71	55.00	43,218.29	51.36	2,219,487.18
2024	193,229.75	55.00	3,513.27	52.22	183,457.07
2025	11,393.77	55.00	207.16	53.11	11,001.39

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.30 Structures - SPP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	25,842,326.61	55.00	469,860.16	41.53	19,511,976.70

Composite Average Remaining Life ... 41.53 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1960	10,599,624.45	55.00	192,720.31	16.68	3,213,934.53
1972	12,693,053.48	55.00	230,782.63	21.87	5,046,886.27
1975	17,981,926.22	55.00	326,943.89	23.22	7,592,398.35
1985	1,204,742.75	55.00	21,904.40	27.94	611,945.81
1993	12,736.38	55.00	231.57	31.98	7,406.74
1994	101,865.06	55.00	1,852.09	32.51	60,215.30
1995	8,797,962.75	55.00	159,962.85	33.04	5,285,892.60
1996	2,958,647.48	55.00	53,793.55	33.58	1,806,512.22
1999	75,887.27	55.00	1,379.77	35.23	48,609.01
2001	236,542.84	55.00	4,300.78	36.36	156,376.06
2003	1,461,646.93	55.00	26,575.38	37.52	997,005.03
2004	367,499.67	55.00	6,681.81	38.11	254,617.21
2006	131,140.18	55.00	2,384.37	39.31	93,727.53
2007	18,890.83	55.00	343.47	39.92	13,712.39
2008	402,043.27	55.00	7,309.87	40.54	296,373.88
2009	16,621.70	55.00	302.21	41.18	12,444.15
2010	12,094,530.43	55.00	219,900.40	41.82	9,196,009.41
2011	393,025.03	55.00	7,145.90	42.47	303,495.63
2012	282,267.24	55.00	5,132.13	43.13	221,370.29
2013	8,325.00	55.00	151.36	43.81	6,630.99
2014	16,814,574.82	55.00	305,719.33	44.49	13,602,297.50
2015	5,371,118.78	55.00	97,656.64	45.19	4,413,312.31
2016	19,818,007.39	55.00	360,327.16	45.90	16,540,767.33
2017	3,090,389.28	55.00	56,188.86	46.63	2,620,185.50
2018	101,683.42	55.00	1,848.79	47.37	87,584.08
2019	265,878.40	55.00	4,834.15	48.13	232,663.95
2020	1,060,026.32	55.00	19,273.19	48.91	942,570.72

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2021	16,913,734.53	55.00	307,522.23	49.70	15,284,214.18
2022	975,108.52	55.00	17,729.23	50.52	895,627.85
2023	37,310.78	55.00	678.38	51.36	34,838.25
2024	30,884.14	55.00	561.53	52.22	29,322.16
2025	2,525,732.72	55.00	45,922.38	53.11	2,438,751.22
Total	136,843,428.06	55.00	2,488,060.60	37.12	92,347,698.46

Composite Average Remaining Life ... 37.12 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.70 Structures - General

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2025	459,529.97	35.00	13,129.43	33.01	433,414.36
2026	352,962.98	35.00	10,084.65	34.00	342,894.03
2027	104,035.07	35.00	2,972.43	34.75	103,291.78
Total	916,528.02	35.00	26,186.51	33.59	879,600.16

Composite Average Remaining Life ... 33.59 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
355.00 Power Generation Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1991	21,067.56	35.00	601.93	12.16	7,318.89
2002	19,740.16	35.00	564.00	17.23	9,715.08
2004	38,295.54	35.00	1,094.16	18.27	19,991.35
2012	403,177.35	35.00	11,519.32	22.98	264,683.23
2015	426,122.43	35.00	12,174.89	25.00	304,381.88
2020	22,037.01	35.00	629.63	28.76	18,106.80
2021	1,986.71	35.00	56.76	29.57	1,678.72
2024	2,289,043.09	35.00	65,401.05	32.16	2,103,584.36
2025	911,327.11	35.00	26,037.85	33.08	861,326.11
Total	4,132,796.96	35.00	118,079.59	30.41	3,590,786.43

Composite Average Remaining Life ... 30.41 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
360.10 Collection Sewers - Force Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 75 *Survivor Curve:* R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1955	1,191.47	75.00	15.89	16.60	263.68
1960	13,291.92	75.00	177.23	19.29	3,419.48
1972	208,072.45	75.00	2,774.30	26.93	74,704.94
1989	4,454.74	75.00	59.40	39.93	2,371.63
1995	327,404.62	75.00	4,365.39	45.00	196,458.24
1996	177,457.94	75.00	2,366.11	45.87	108,539.16
2004	31,805.29	75.00	424.07	53.01	22,481.00
2015	1,165,297.23	75.00	15,537.30	63.32	983,861.79
2018	135,436.89	75.00	1,805.83	66.21	119,562.46
2019	37,024.01	75.00	493.65	67.18	33,162.05
2020	830,893.31	75.00	11,078.58	68.15	754,979.86
2021	670,499.54	75.00	8,939.99	69.12	617,935.44
2022	4,420,536.46	75.00	58,940.48	70.10	4,131,438.73
2023	6,479,187.10	75.00	86,389.16	71.07	6,139,914.57
2024	2,965,353.45	75.00	39,538.04	72.05	2,848,786.17
2025	379,554.66	75.00	5,060.73	73.03	369,597.98
2026	1,188,459.19	75.00	15,846.12	74.02	1,172,862.11
2027	518,868.79	75.00	6,918.25	74.75	517,165.96
Total	19,554,789.06	75.00	260,730.51	69.41	18,097,505.26

Composite Average Remaining Life ... *69.41 Years*

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1938	825,939.70	80.00	10,324.24	15.42	159,233.11
1945	208,322.99	80.00	2,604.04	18.22	47,447.71
1950	839,356.16	80.00	10,491.94	20.54	215,533.36
1955	16,851,991.21	80.00	210,649.74	23.13	4,873,054.75
1959	55,755,068.44	80.00	696,937.87	25.39	17,695,771.57
1960	1,038,138.94	80.00	12,976.73	25.98	337,110.96
1962	11,464,036.84	80.00	143,300.36	27.19	3,895,642.31
1963	26,973,423.12	80.00	337,167.55	27.80	9,373,397.01
1965	635,349.49	80.00	7,941.86	29.06	230,786.30
1968	1,798,905.81	80.00	22,486.31	31.01	697,230.92
1970	748,681.40	80.00	9,358.51	32.35	302,729.97
1972	15,248,381.91	80.00	190,604.64	33.72	6,426,375.06
1973	515,509.77	80.00	6,443.87	34.41	221,754.59
1974	455,544.76	80.00	5,694.31	35.12	199,959.74
1975	2,125,289.48	80.00	26,566.10	35.82	951,724.24
1976	35,350,307.82	80.00	441,878.54	36.54	16,146,350.08
1977	313,000.07	80.00	3,912.50	37.26	145,787.95
1978	816,395.75	80.00	10,204.94	37.99	387,736.19
1979	861,785.88	80.00	10,772.32	38.73	417,218.91
1980	1,403,439.82	80.00	17,542.99	39.47	692,464.09
1981	661,886.81	80.00	8,273.58	40.22	332,789.14
1982	494,383.67	80.00	6,179.79	40.98	253,236.14
1983	364,174.95	80.00	4,552.18	41.74	190,002.92
1984	634,582.96	80.00	7,932.28	42.51	337,163.94
1985	1,567,321.00	80.00	19,591.50	43.28	847,868.49
1986	737,928.90	80.00	9,224.10	44.06	406,406.23
1987	684,873.87	80.00	8,560.92	44.84	383,901.75

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *80* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1988	274,612.91	80.00	3,432.66	45.63	156,643.56
1989	24,381,794.65	80.00	304,772.22	46.43	14,150,878.82
1990	2,834,459.30	80.00	35,430.72	47.23	1,673,483.62
1991	1,098,402.18	80.00	13,730.02	48.04	659,580.27
1992	2,097,860.81	80.00	26,223.24	48.85	1,281,034.20
1993	357,262.91	80.00	4,465.78	49.67	221,806.31
1994	939,863.43	80.00	11,748.28	50.49	593,210.17
1995	2,272,077.79	80.00	28,400.95	51.32	1,457,569.20
1996	3,451,854.02	80.00	43,148.15	52.15	2,250,335.72
1997	220,044.95	80.00	2,750.56	52.99	145,761.10
1998	1,432,237.31	80.00	17,902.95	53.84	963,827.66
1999	9,393,536.06	80.00	117,419.12	54.68	6,420,918.96
2000	300,449.00	80.00	3,755.61	55.54	208,570.67
2001	542,649.97	80.00	6,783.12	56.39	382,514.84
2002	156,677.14	80.00	1,958.46	57.26	112,133.56
2003	19,490.30	80.00	243.63	58.12	14,160.12
2004	1,781,965.59	80.00	22,274.55	58.99	1,314,015.45
2005	1,335,097.27	80.00	16,688.70	59.87	999,083.34
2006	1,122,320.76	80.00	14,029.00	60.75	852,213.94
2007	4,876,455.26	80.00	60,955.65	61.63	3,756,656.17
2008	2,337,030.94	80.00	29,212.87	62.52	1,826,267.41
2009	9,124,059.18	80.00	114,050.66	63.41	7,231,504.23
2010	3,731,837.66	80.00	46,647.94	64.30	2,999,571.84
2011	3,658,545.89	80.00	45,731.79	65.20	2,981,732.84
2012	259,369.26	80.00	3,242.11	66.10	214,310.04
2013	435,919.39	80.00	5,448.99	67.01	365,127.37
2014	1,120,473.58	80.00	14,005.91	67.92	951,240.25

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.10 Collection Sewers - Gravity Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *80* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2015	14,591.43	80.00	182.39	68.83	12,553.91
2016	12,834,211.43	80.00	160,427.53	69.74	11,188,852.48
2017	6,864,381.73	80.00	85,804.71	70.66	6,063,126.86
2018	3,789,060.56	80.00	47,363.22	71.58	3,390,482.46
2019	37,882,069.61	80.00	473,525.54	72.51	34,334,840.20
2020	26,267,171.13	80.00	328,339.41	73.44	24,111,902.31
2021	11,222,265.87	80.00	140,278.23	74.37	10,432,021.60
2022	11,290,171.84	80.00	141,127.05	75.30	10,626,772.45
2023	44,262,900.97	80.00	553,285.88	76.23	42,179,454.66
2024	15,007,880.83	80.00	187,598.38	77.17	14,477,341.69
2025	4,397,201.76	80.00	54,964.98	78.11	4,293,416.64
2026	8,030,985.13	80.00	100,387.24	79.06	7,936,151.34
2027	6,327,410.01	80.00	79,092.57	79.76	6,308,726.24
Total	447,120,671.33	80.00	5,589,004.48	52.91	295,708,471.93

Composite Average Remaining Life ... 52.91 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1918	185,921.36	0.00	0.00	0.00	0.00
1938	258,467.85	50.00	5,169.36	2.07	10,708.86
1945	40,147.57	50.00	802.95	3.49	2,805.97
1950	90,903.16	50.00	1,818.06	4.60	8,366.93
1955	82,223.20	50.00	1,644.46	5.80	9,536.63
1959	10,441,422.84	50.00	208,828.47	6.83	1,426,892.69
1960	123,956.30	50.00	2,479.13	7.10	17,609.62
1963	1,805,106.84	50.00	36,102.14	7.95	286,855.62
1965	115,202.38	50.00	2,304.05	8.54	19,666.81
1968	61,842.40	50.00	1,236.85	9.47	11,710.70
1970	130,951.58	50.00	2,619.03	10.12	26,515.81
1972	1,401,211.14	50.00	28,024.22	10.81	302,958.42
1973	299,482.74	50.00	5,989.66	11.17	66,879.50
1974	144,666.42	50.00	2,893.33	11.53	33,358.81
1975	427,551.91	50.00	8,551.04	11.90	101,775.35
1976	1,213,132.08	50.00	24,262.64	12.28	298,037.70
1977	135,315.25	50.00	2,706.31	12.68	34,302.51
1978	364,348.78	50.00	7,286.98	13.08	95,285.60
1979	375,531.97	50.00	7,510.64	13.49	101,300.03
1980	343,905.69	50.00	6,878.11	13.91	95,671.67
1981	303,273.04	50.00	6,065.46	14.34	86,994.98
1982	240,750.96	50.00	4,815.02	14.79	71,200.93
1983	166,919.22	50.00	3,338.38	15.24	50,889.40
1984	192,851.62	50.00	3,857.03	15.71	60,603.63
1985	424,768.26	50.00	8,495.37	16.19	137,574.21
1986	361,882.59	50.00	7,237.65	16.69	120,787.35
1987	250,696.53	50.00	5,013.93	17.20	86,225.06

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1988	96,295.74	50.00	1,925.91	17.72	34,126.29
1989	1,478,724.10	50.00	29,574.48	18.26	539,925.47
1990	1,028,577.48	50.00	20,571.55	18.81	386,917.04
1991	480,189.05	50.00	9,603.78	19.38	186,079.34
1992	446,361.91	50.00	8,927.24	19.96	178,176.20
1993	106,745.62	50.00	2,134.91	20.56	43,889.54
1994	172,759.47	50.00	3,455.19	21.17	73,159.81
1995	493,337.58	50.00	9,866.75	21.81	215,161.65
1996	766,235.95	50.00	15,324.72	22.46	344,145.24
1997	99,473.55	50.00	1,989.47	23.12	46,005.71
1998	667,320.11	50.00	13,346.40	23.81	317,779.95
1999	377,584.03	50.00	7,551.68	24.51	185,120.25
2001	40,252.14	50.00	805.04	25.98	20,911.57
2004	390,957.17	50.00	7,819.14	28.31	221,326.59
2005	622,574.77	50.00	12,451.50	29.12	362,568.71
2006	485,312.53	50.00	9,706.25	29.95	290,690.82
2007	261,446.37	50.00	5,228.93	30.80	161,031.85
2008	302,628.43	50.00	6,052.57	31.66	191,627.37
2010	100,524.98	50.00	2,010.50	33.44	67,223.39
2011	258,368.35	50.00	5,167.37	34.35	177,478.92
2012	100,201.36	50.00	2,004.03	35.27	70,681.19
2013	16,187.43	50.00	323.75	36.21	11,721.50
2014	101,864.24	50.00	2,037.28	37.15	75,691.24
2016	19,978.62	50.00	399.57	39.08	15,614.29
2019	46,757.32	50.00	935.15	42.02	39,295.09
2020	883,016.83	50.00	17,660.34	43.01	759,595.28
2021	904,383.24	50.00	18,087.67	44.01	795,962.10

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	2,203,269.49	50.00	44,065.39	45.00	1,983,056.64
2023	4,897,473.20	50.00	97,949.47	46.00	4,505,768.79
2024	4,306,744.02	50.00	86,134.89	47.00	4,048,361.87
2025	3,606,835.96	50.00	72,136.72	48.00	3,462,565.23
2026	1,141,490.68	50.00	22,829.82	49.00	1,118,661.00
2027	550,729.56	50.00	11,014.59	49.75	547,975.88
Total	47,437,034.96	49.17	945,022.34	26.50	25,042,810.57

Composite Average Remaining Life ... 26.50 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1938	65,422.34	0.00	0.00	0.00	0.00
1945	15,346.82	0.00	0.00	0.00	0.00
1950	43,290.49	47.00	921.08	0.69	640.06
1955	39,897.91	47.00	848.89	1.81	1,532.44
1960	65,588.71	47.00	1,395.51	3.07	4,289.13
1965	70,351.78	47.00	1,496.85	4.35	6,517.82
1970	98,930.37	47.00	2,104.91	5.73	12,054.04
1972	542,306.93	47.00	11,538.47	6.35	73,226.31
1973	109,892.89	47.00	2,338.15	6.68	15,611.77
1974	131,940.47	47.00	2,807.25	7.02	19,716.26
1975	315,703.80	47.00	6,717.12	7.39	49,615.88
1977	102,264.95	47.00	2,175.86	8.17	17,771.26
1978	270,117.73	47.00	5,747.20	8.59	49,350.26
1979	289,250.19	47.00	6,154.27	9.03	55,548.06
1980	256,466.26	47.00	5,456.74	9.49	51,757.61
1981	226,843.88	47.00	4,826.48	9.96	48,093.04
1982	184,105.20	47.00	3,917.14	10.46	40,988.90
1983	128,922.06	47.00	2,743.03	10.98	30,128.48
1984	153,505.69	47.00	3,266.09	11.53	37,643.99
1985	316,466.36	47.00	6,733.34	12.09	81,374.52
1986	288,510.29	47.00	6,138.53	12.66	77,738.02
1987	200,536.88	47.00	4,266.75	13.26	56,581.86
1988	69,065.67	47.00	1,469.49	13.88	20,390.90
1989	732,574.45	47.00	15,586.73	14.51	226,142.46
1990	817,808.68	47.00	17,400.23	15.16	263,748.89
1991	386,780.91	47.00	8,229.40	15.82	130,213.52
1992	523,744.47	47.00	11,143.53	16.51	183,936.09

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1994	65,457.97	47.00	1,392.73	17.91	24,946.26
1995	99,020.17	47.00	2,106.82	18.64	39,261.42
1996	262,390.86	47.00	5,582.80	19.37	108,150.96
1997	86,194.50	47.00	1,833.93	20.12	36,901.71
1998	567,703.59	47.00	12,078.83	20.88	252,247.86
1999	163,826.94	47.00	3,485.69	21.66	75,490.43
2000	11,979.04	47.00	254.87	22.44	5,720.57
2004	187,119.19	47.00	3,981.27	25.70	102,312.76
2005	499,348.60	47.00	10,624.47	26.54	281,956.30
2006	403,919.76	47.00	8,594.06	27.39	235,377.13
2007	227,748.69	47.00	4,845.73	28.25	136,882.80
2008	64,673.93	47.00	1,376.04	29.12	40,069.14
2009	79,263.57	47.00	1,686.46	30.00	50,590.39
2011	170,421.88	47.00	3,626.01	31.78	115,242.24
2012	79,694.42	47.00	1,695.63	32.69	55,424.84
2013	16,050.07	47.00	341.49	33.60	11,473.97
2014	58,313.06	47.00	1,240.71	34.52	42,828.96
2016	134,187.32	47.00	2,855.06	36.38	103,874.62
2017	192,096.30	47.00	4,087.17	37.32	152,547.57
2018	201,800.93	47.00	4,293.65	38.27	164,319.81
2019	302,100.56	47.00	6,427.69	39.22	252,112.88
2020	1,409,569.21	47.00	29,990.91	40.18	1,205,055.05
2021	1,064,780.85	47.00	22,654.97	41.14	932,098.70
2022	1,077,000.75	47.00	22,914.97	42.11	964,954.62
2023	1,318,681.49	47.00	28,057.12	43.08	1,208,737.60
2024	2,093,627.94	47.00	44,545.39	44.06	1,962,519.72
2025	2,591,130.71	47.00	55,130.58	45.03	2,482,795.08

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *47* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2026	1,518,893.18	47.00	32,316.96	46.02	1,487,096.97
2027	486,273.71	47.00	10,346.28	46.75	483,723.99
Total	21,878,905.37	45.32	463,791.30	31.41	14,569,325.95

Composite Average Remaining Life ... 31.41 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
364.00 Flow Measuring Devices

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *15* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1960	34,668.83	0.00	0.00	0.00	0.00
1996	10,667.26	15.00	711.15	2.16	1,534.94
1998	11,518.92	15.00	767.93	2.55	1,960.05
2008	91,182.72	15.00	6,078.83	4.87	29,626.54
2010	110,716.42	15.00	7,381.08	5.37	39,618.62
2011	38,771.91	15.00	2,584.79	5.61	14,498.76
2013	175,978.36	15.00	11,731.86	6.09	71,443.98
2015	40,642.36	15.00	2,709.48	6.62	17,932.68
2016	442,654.44	15.00	29,510.22	6.93	204,522.36
2017	160,544.63	15.00	10,702.95	7.29	78,075.76
2018	43,907.33	15.00	2,927.15	7.73	22,624.01
2019	859,930.78	15.00	57,328.57	8.25	472,884.72
2020	72,459.17	15.00	4,830.60	8.86	42,818.35
2022	98,651.86	15.00	6,576.77	10.37	68,204.15
2023	407,174.77	15.00	27,144.92	11.21	304,404.39
2024	8,460.60	15.00	564.04	12.10	6,826.19
Total	2,607,930.36	14.06	171,550.33	8.03	1,376,975.51

Composite Average Remaining Life ... 8.03 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
371.00 Pumping Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 30 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1991	7,318.26	30.00	243.94	8.37	2,042.50
1996	849,858.23	30.00	28,328.55	10.36	293,590.00
1997	12,136.89	30.00	404.56	10.78	4,362.59
2001	71,321.36	30.00	2,377.37	12.55	29,831.85
2002	52,375.69	30.00	1,745.85	13.01	22,719.74
2004	387,121.69	30.00	12,904.03	13.98	180,344.23
2005	8,622.80	30.00	287.43	14.47	4,160.42
2006	396,409.93	30.00	13,213.64	14.99	198,014.16
2007	12,799.00	30.00	426.63	15.51	6,616.76
2008	17,663.53	30.00	588.78	16.05	9,448.45
2009	459,112.36	30.00	15,303.71	16.60	254,031.35
2010	695,226.30	30.00	23,174.16	17.17	397,811.83
2011	127,476.06	30.00	4,249.19	17.75	75,422.89
2012	1,560,672.76	30.00	52,022.32	18.35	954,588.78
2013	410,667.59	30.00	13,688.89	18.97	259,631.87
2014	92,093.87	30.00	3,069.79	19.60	60,177.81
2015	3,916,107.31	30.00	130,536.64	20.26	2,644,443.97
2016	1,194,458.46	30.00	39,815.20	20.93	833,462.33
2017	84,678.45	30.00	2,822.61	21.63	61,055.48
2018	1,325,718.35	30.00	44,190.52	22.35	987,639.13
2019	442,517.94	30.00	14,750.57	23.09	340,608.09
2020	1,324,689.58	30.00	44,156.23	23.86	1,053,501.11
2021	319,307.07	30.00	10,643.55	24.65	262,361.58
2022	637,945.90	30.00	21,264.82	25.47	541,553.87
2023	2,433,739.52	30.00	81,124.48	26.31	2,134,659.35
2024	621,994.88	30.00	20,733.12	27.19	563,668.91
2025	1,133,397.16	30.00	37,779.83	28.09	1,061,235.68

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
371.00 Pumping Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 30 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2026	2,119,158.30	30.00	70,638.46	29.03	2,050,420.81
2027	108,651.33	30.00	3,621.70	29.75	107,752.73
Total	20,823,240.57	30.00	694,106.57	22.18	15,395,158.27

Composite Average Remaining Life ... 22.18 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
380.00 Treatment Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1960	250,341.81	35.00	7,152.62	0.87	6,211.80
1968	458,956.34	35.00	13,113.04	2.86	37,505.56
1975	14,679,146.57	35.00	419,404.16	4.65	1,948,566.95
1987	1,450,633.98	35.00	41,446.68	8.22	340,508.93
1988	436,738.77	35.00	12,478.25	8.56	106,849.66
1990	25,745.28	35.00	735.58	9.29	6,832.23
1994	137,703.35	35.00	3,934.38	10.88	42,794.02
1995	5,066,097.50	35.00	144,745.63	11.31	1,636,592.38
1996	34,920.92	35.00	997.74	11.75	11,723.64
1997	1,932.75	35.00	55.22	12.21	674.21
1999	1,055,755.01	35.00	30,164.43	13.18	397,422.17
2001	1,627,983.77	35.00	46,513.82	14.21	660,925.07
2002	196,538.65	35.00	5,615.39	14.75	82,846.45
2003	90,647.27	35.00	2,589.92	15.32	39,666.06
2004	3,921,895.65	35.00	112,054.15	15.90	1,781,540.66
2006	11,472.64	35.00	327.79	17.13	5,614.11
2007	293,504.28	35.00	8,385.84	17.77	149,042.24
2008	1,123,332.97	35.00	32,095.23	18.44	591,862.71
2009	55,219.41	35.00	1,577.70	19.13	30,182.55
2010	24,154.94	35.00	690.14	19.84	13,693.54
2012	120,437.01	35.00	3,441.06	21.34	73,416.73
2013	49,169.19	35.00	1,404.83	22.12	31,069.81
2014	29,045.70	35.00	829.88	22.92	19,020.41
2015	11,554,196.36	35.00	330,119.87	23.74	7,838,606.24
2016	4,101,315.91	35.00	117,180.45	24.59	2,881,623.51
2017	2,375,362.17	35.00	67,867.49	25.46	1,727,732.58
2018	1,074,974.69	35.00	30,713.56	26.35	809,153.52

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
380.00 Treatment Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S1.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2019	167,323.13	35.00	4,780.66	27.25	130,280.74
2020	9,818,958.41	35.00	280,541.65	28.18	7,904,432.75
2021	2,378,394.30	35.00	67,954.12	29.12	1,978,538.16
2022	15,607,283.23	35.00	445,922.35	30.07	13,409,172.67
2023	3,972,794.39	35.00	113,508.40	31.04	3,523,131.02
2024	841,157.55	35.00	24,033.07	32.02	769,467.55
2025	2,761,630.52	35.00	78,903.72	33.01	2,604,258.63
2026	994,230.92	35.00	28,406.60	34.00	965,846.56
2027	16,218,640.81	35.00	463,389.71	34.75	16,102,779.90
Total	103,007,636.15	35.00	2,943,075.12	23.33	68,659,585.74

Composite Average Remaining Life ... 23.33 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
381.00 Plant Sewers

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1995	874,635.54	50.00	17,492.70	21.34	373,335.65
1999	17,293.00	50.00	345.86	24.45	8,457.11
2002	27,056.54	50.00	541.13	26.90	14,554.47
2003	603,123.96	50.00	12,062.47	27.73	334,505.36
2004	48,787.57	50.00	975.75	28.58	27,882.44
2016	5,448.80	50.00	108.98	39.36	4,289.82
Total	1,576,345.41	50.00	31,526.89	24.20	763,024.85

Composite Average Remaining Life ... 24.20 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
382.00 Outfall Sewer Lines

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2017	8,904.30	50.00	178.09	40.31	7,178.57
2018	137,919.26	50.00	2,758.38	41.26	113,810.40
2023	304,148.54	50.00	6,082.97	46.08	280,304.76
2026	1,573,432.21	50.00	31,468.63	49.02	1,542,466.99
Total	2,024,404.31	50.00	40,488.07	48.01	1,943,760.72

Composite Average Remaining Life ... 48.01 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
389.10 Other Plant - Intangibles

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2003	732.57	20.00	36.63	3.67	134.55
2013	4,140,223.53	20.00	207,011.19	7.99	1,653,413.02
2019	2,529.74	20.00	126.49	12.32	1,558.24
2020	6,201,677.71	20.00	310,083.91	13.20	4,091,612.47
2022	430,060.25	20.00	21,503.01	15.05	323,673.09
2024	38,327.02	20.00	1,916.35	17.01	32,589.79
Total	10,813,550.82	20.00	540,677.58	11.29	6,102,981.16

Composite Average Remaining Life ... 11.29 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
391.00 Transportation Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 14 **Survivor Curve:** L4

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1995	13,240.08	0.00	0.00	0.00	0.00
2003	25,581.36	14.00	1,827.20	1.03	1,877.49
2004	6,788.48	14.00	484.88	1.17	566.94
2006	99,532.58	14.00	7,109.31	1.49	10,588.54
2007	154,794.96	14.00	11,056.53	1.67	18,483.45
2008	150,540.49	14.00	10,752.65	1.87	20,117.17
2009	220,230.56	14.00	15,730.40	2.09	32,798.56
2010	253,581.52	14.00	18,112.56	2.30	41,650.98
2011	91,691.79	14.00	6,549.27	2.49	16,312.63
2012	283,568.72	14.00	20,254.45	2.64	53,461.44
2013	590,227.54	14.00	42,158.15	2.78	117,249.73
2014	555,945.44	14.00	39,709.49	2.99	118,848.67
2015	697,815.92	14.00	49,842.86	3.35	167,021.71
2016	185,576.14	14.00	13,255.14	3.89	51,608.19
2017	174,855.63	14.00	12,489.40	4.58	57,249.12
2018	1,449,339.70	14.00	103,521.92	5.36	554,993.67
2019	840,388.91	14.00	60,026.42	6.20	372,058.04
2021	89,577.43	14.00	6,398.24	8.03	51,374.42
2022	869,888.42	14.00	62,133.48	9.01	559,547.30
2023	2,612,625.59	14.00	186,611.88	10.00	1,866,214.07
2024	815,335.23	14.00	58,236.91	11.00	640,624.50
2025	244,677.74	14.00	17,476.59	12.00	209,724.57
2026	347,528.00	14.00	24,822.87	13.00	322,705.13
2027	101,664.00	14.00	7,261.55	13.75	99,848.61

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
391.00 Transportation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *14* ***Survivor Curve:*** *L4*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	10,874,996.23	13.42	775,822.13	6.94	5,384,924.94

Composite Average Remaining Life ... 6.94 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
395.00 Power Operated Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 22 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2007	13,810.00	22.00	627.72	7.10	4,454.65
2008	48,270.00	22.00	2,194.05	7.64	16,761.09
2009	246,063.00	22.00	11,184.48	8.21	91,800.74
2010	440,226.19	22.00	20,009.92	8.80	176,143.97
2011	45,902.54	22.00	2,086.44	9.42	19,658.27
2012	282,853.13	22.00	12,856.73	10.07	129,414.02
2013	157,521.76	22.00	7,159.95	10.73	76,840.17
2014	2,683.87	22.00	121.99	11.42	1,393.28
2015	7,815.84	22.00	355.26	12.13	4,309.44
2016	15,995.00	22.00	727.03	12.86	9,350.38
2017	29,847.33	22.00	1,356.67	13.61	18,465.22
2018	44,891.21	22.00	2,040.47	14.38	29,338.87
2020	9,692.97	22.00	440.58	15.97	7,034.75
2021	563,825.38	22.00	25,627.96	16.79	430,196.37
2023	271,216.17	22.00	12,327.79	18.47	227,694.54
2024	129,069.73	22.00	5,866.70	19.33	113,421.57
Total	2,309,684.12	22.00	104,983.75	12.92	1,356,277.33

Composite Average Remaining Life ... 12.92 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
354.20 Structures - Collection

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *45* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1998	178,333.15	45.00	3,962.96	19.06	75,525.96
2015	20,702.74	45.00	460.06	33.46	15,395.81
2026	9,999.50	45.00	222.21	44.02	9,780.89
2027	4,998.76	45.00	111.08	44.75	4,971.39
Total	214,034.15	45.00	4,756.31	22.22	105,674.04

Composite Average Remaining Life ... 22.22 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
354.30 Structures - SPP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	6,131,131.15	55.00	111,475.03	50.52	5,631,385.34
Total	6,131,131.15	55.00	111,475.03	50.52	5,631,385.34

Composite Average Remaining Life ... 50.52 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1959	166,934.69	55.00	3,035.17	16.26	49,346.78
1972	189,956.32	55.00	3,453.75	21.87	75,528.55
1992	711,430.30	55.00	12,935.09	31.46	406,971.23
2015	420,063.69	55.00	7,637.52	45.19	345,155.70
2016	12,643.06	55.00	229.87	45.90	10,552.32
2017	6,064.56	55.00	110.26	46.63	5,141.84
2019	23,691.33	55.00	430.75	48.13	20,731.73
2020	30,932.25	55.00	562.40	48.91	27,504.82
Total	1,561,716.20	55.00	28,394.82	33.14	940,932.97

Composite Average Remaining Life ... 33.14 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
354.70 Structures - General

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1992	41,410.75	35.00	1,183.16	11.24	13,299.27
2026	6,000.00	35.00	171.43	34.00	5,828.84
2027	2,999.99	35.00	85.71	34.75	2,978.56
Total	50,410.74	35.00	1,440.31	15.35	22,106.66

Composite Average Remaining Life ... 15.35 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
355.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	126,050.56	35.00	3,601.43	30.41	109,532.90
Total	126,050.56	35.00	3,601.43	30.41	109,532.90

Composite Average Remaining Life ... 30.41 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
360.10 Collection Sewers - Force Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	285,386.05	75.00	3,805.15	70.10	266,722.15
2026	7,499.32	75.00	99.99	74.02	7,400.90
2027	4,496.82	75.00	59.96	74.75	4,482.06
Total	297,382.19	75.00	3,965.10	70.26	278,605.11

Composite Average Remaining Life ... 70.26 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 *Survivor Curve:* R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1950	1,371,020.17	80.00	17,137.74	20.54	352,056.24
1998	5,640,171.69	80.00	70,502.10	53.84	3,795,567.58
2015	2,275,094.72	80.00	28,438.66	68.83	1,957,404.36
2016	1,187,017.60	80.00	14,837.71	69.74	1,034,840.74
2017	225,231.53	80.00	2,815.39	70.66	198,941.05
2018	652,718.40	80.00	8,158.97	71.58	584,057.78
2019	126,081.34	80.00	1,576.02	72.51	114,275.24
2020	230,223.57	80.00	2,877.79	73.44	211,333.31
2022	113,781.48	80.00	1,422.27	75.30	107,095.79
2023	407,158.85	80.00	5,089.48	76.23	387,993.96
2026	52,500.00	80.00	656.25	79.06	51,880.05
2027	30,492.00	80.00	381.15	79.76	30,401.96
Total	12,311,491.35	80.00	153,893.53	57.35	8,825,848.07

Composite Average Remaining Life ... 57.35 *Years*

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1950	208,347.61	50.00	4,166.95	4.60	19,176.78
1998	21,535.87	50.00	430.72	23.81	10,255.45
2014	175,888.74	50.00	3,517.78	37.15	130,695.89
2026	38,400.00	50.00	768.00	49.00	37,632.00
2027	19,200.00	50.00	384.00	49.75	19,104.00
Total	463,372.22	50.00	9,267.45	23.40	216,864.12

Composite Average Remaining Life ... 23.40 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *47* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2026	30,000.00	47.00	638.30	46.02	29,371.99
2027	18,000.00	47.00	382.98	46.75	17,905.62
Total	48,000.00	47.00	1,021.28	46.29	47,277.61

Composite Average Remaining Life ... 46.29 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
364.00 Flow Measuring Devices

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *15* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1992	10,431.53	15.00	695.43	1.42	988.53
1996	7,328.14	15.00	488.54	2.16	1,054.46
2013	182,290.73	15.00	12,152.68	6.09	74,006.68
2014	129,463.37	15.00	8,630.87	6.34	54,746.66
2019	81,758.85	15.00	5,450.58	8.25	44,960.03
2020	46,933.08	15.00	3,128.86	8.86	27,734.20
2022	7,896.07	15.00	526.40	10.37	5,459.04
Total	466,101.77	15.00	31,073.37	6.72	208,949.61

Composite Average Remaining Life ... 6.72 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
370.00 Receiving Wells

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	181,962.65	50.00	3,639.25	45.11	164,159.59
Total	181,962.65	50.00	3,639.25	45.11	164,159.59

Composite Average Remaining Life ... 45.11 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
371.00 Pumping Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *30* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1972	25,479.06	30.00	849.30	1.77	1,506.55
2017	36,074.88	30.00	1,202.49	21.63	26,010.98
2021	73,141.37	30.00	2,438.04	24.65	60,097.28
2022	1,034,946.79	30.00	34,498.15	25.47	878,568.91
2023	7,782.76	30.00	259.42	26.31	6,826.34
2026	9,499.85	30.00	316.66	29.03	9,191.71
2027	4,749.59	30.00	158.32	29.75	4,710.31
Total	1,191,674.30	30.00	39,722.39	24.85	986,912.08

Composite Average Remaining Life ... *24.85 Years*

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
380.00 Treatment Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1959	37,258.37	35.00	1,064.52	0.64	686.45
1972	32,889.62	35.00	939.70	3.86	3,630.20
1992	216,221.85	35.00	6,177.77	10.06	62,134.43
2015	244,388.05	35.00	6,982.52	23.74	165,797.92
2016	66,686.46	35.00	1,905.33	24.59	46,854.54
2017	170,628.98	35.00	4,875.11	25.46	124,107.92
2018	18,987.92	35.00	542.51	26.35	14,292.56
2019	34,088.04	35.00	973.94	27.25	26,541.55
2022	802,588.75	35.00	22,931.11	30.07	689,553.14
2026	614,499.99	35.00	17,557.14	34.00	596,956.59
2027	512,248.24	35.00	14,635.66	34.75	508,588.90
Total	2,750,486.27	35.00	78,585.32	28.49	2,239,144.19

Composite Average Remaining Life ... 28.49 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
381.00 Plant Sewers

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1992	257,749.35	50.00	5,154.98	19.13	98,621.33
2004	217,164.26	50.00	4,343.28	28.58	124,110.92
2022	813,969.13	50.00	16,279.37	45.11	734,331.15
Total	1,288,882.74	50.00	25,777.64	37.13	957,063.39

Composite Average Remaining Life ... 37.13 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
382.00 Outfall Sewer Lines

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	2,828.25	50.00	56.56	45.11	2,551.54
Total	2,828.25	50.00	56.56	45.11	2,551.54

Composite Average Remaining Life ... 45.11 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
389.10 Other Plant - Intangibles

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2019	11,607.90	20.00	580.40	12.32	7,150.09
Total	11,607.90	20.00	580.40	12.32	7,150.09

Composite Average Remaining Life ... 12.32 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
391.00 Transportation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *14* ***Survivor Curve:*** *L4*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1989	5,537.12	0.00	0.00	0.00	0.00
2008	14,834.85	14.00	1,059.61	1.87	1,982.43
2015	16,013.29	14.00	1,143.78	3.35	3,832.77
2022	11,253.85	14.00	803.83	9.01	7,238.93
Total	47,639.11	10.50	3,007.22	4.34	13,054.12

Composite Average Remaining Life ... 4.34 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
395.00 Power Operated Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *22* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1990	1,424.51	22.00	64.75	1.07	69.53
Total	1,424.51	22.00	64.75	1.07	69.53

Composite Average Remaining Life ... 1.07 Years

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	:	
	:	
v.	:	Docket Nos. R-2025-3057983 (W)
	:	R-2025-3058051 (WW)
Pennsylvania-American Water Company	:	
	:	

VERIFICATION

I, David J. Garrett, hereby state that the facts above set forth in my Direct Testimony, OCA Statement No. 2, 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 herein are made subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

DATED: January 30, 2026

Signature: */s/ David J. Garrett*
David J. Garrett

Address: 101 Park Avenue
Suite 1125
Oklahoma City, OK 73120

OCA STATEMENT 3

BEFORE THE

PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	**)**	**Docket Nos.**	**R-2025-3057983 (Water)**
	)		**R-2025-3058051 (Wastewater)**
v.	**)**		
	)		
Pennsylvania-American Water Company	**)**		

DIRECT TESTIMONY OF

JEROME D. MIERZWA

ON BEHALF OF THE

PENNSYLVANIA OFFICE OF CONSUMER ADVOCATE

JANUARY 30, 2026

EXETER
ASSOCIATES, INC.
10480 Little Patuxent Parkway, Suite 300
Columbia, Maryland 21044

TABLE OF CONTENTS

Page

I. INTRODUCTION 2

II. WATER CLASS COST OF SERVICE STUDY 11

III. WASTEWATER COST OF SERVICE STUDIES..... 18

IV. ASSIGNMENT OF WASTEWATER AND STORMWATER COST OF SERVICE TO WATER CUSTOMERS..... 20

V. WATER SERVICE REVENUE DISTRIBUTION AND RATE DESIGN..... 28

VI. WASTEWATER SERVICE REVENUE DISTRIBUTION AND RATE DESIGN..... 36

I. INTRODUCTION

Q. WOULD YOU PLEASE STATE YOUR NAME AND BUSINESS ADDRESS?

A. My name is Jerome D. Mierzwa. I am a Principal at and the President of Exeter Associates, Inc. ("Exeter"). My business address is 10480 Little Patuxent Parkway, Suite 300, Columbia, Maryland 21044. Exeter specializes in providing public utility-related consulting services.

Q. PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND EXPERIENCE.

A. I graduated from Canisius College in Buffalo, New York, in 1981 with a Bachelor of Science Degree in Marketing.[1] In 1985, I received a Master's Degree in Business Administration with a concentration in finance, also from Canisius College. In July 1986, I joined National Fuel Gas Distribution Corporation ("NFG Distribution") as a Management Trainee in the Research and Statistical Services Department ("RSS"). I was promoted to Supervisor RSS in January 1987. While employed with NFG Distribution, I conducted various financial and statistical analyses related to the Company's market research activity and state regulatory affairs. In April 1987, as part of a corporate reorganization, I was transferred to National Fuel Gas Supply Corporation's ("NFG Supply") rate department where my responsibilities included utility cost of service and rate design analysis, expense and revenue requirement forecasting, and activities related to federal regulation. I was also responsible for preparing NFG Supply's Federal Energy Regulatory Commission ("FERC") Purchase Gas Adjustment ("PGA") filings and developing interstate pipeline and spot market

[1] Effective August 1, 2023, Canisius College became Canisius University.

supply gas price projections. These forecasts were utilized for internal planning purposes as well as in NFG Distribution's Pennsylvania purchased gas cost proceedings under Section 1307(f) of the Public Utility Code.

In April 1990, I accepted a position as a Utility Analyst with Exeter. In December 1992, I was promoted to Senior Regulatory Analyst. Effective April 1, 1996, I became a Principal of Exeter. Since joining Exeter, my assignments have included water, wastewater, gas and electric utility class cost of service and rate design analysis, evaluating the gas purchasing practices and policies of natural gas utilities, sales and rate forecasting, performance-based incentive regulation, revenue requirement analysis, the unbundling of utility services, and the evaluation of customer choice natural gas transportation programs.

Q. HAVE YOU PREVIOUSLY TESTIFIED IN REGULATORY PROCEEDINGS ON UTILITY RATES?

A. Yes. I have provided testimony on more than 500 occasions in proceedings before FERC, utility regulatory Commissions in Arkansas, Connecticut, Delaware, Georgia, Illinois, Indiana, Louisiana, Maine, Maryland, Massachusetts, Montana, Nevada, New Jersey, Ohio, Pennsylvania, Rhode Island, South Carolina, Texas, and Virginia, as well as before the Pennsylvania Public Utility Commission ("Commission").

Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

A. On November 14, 2025, the Pennsylvania-American Water Company ("PAWC" or "Company") filed an application to increase rates for water utility service by $152.4 million, or 16.1%, and to increase rates for wastewater service by $16.3 million, or 7.8%. These increases are not cost of service based, but rather they reflect PAWC's decision to shift $53.0 million in PAWC's calculated wastewater revenue requirement

to water customers pursuant to Section 1311(c) of the Pennsylvania Public Utility Code. Thus, realistically, at PAWC's calculated revenue requirement, an actual cost of service based proposal would have increased water rates by $99.4 million and wastewater rates by $69.3 million. Exeter was retained by the Pennsylvania Office of Consumer Advocate ("OCA") to review the revenue requirement claim, and analyze the water and wastewater class cost of service ("CCOS") studies and the rate design proposals included in PAWC's application. My associate, Mr. Lafayette K. Morgan, Jr., addresses PAWC's revenue requirement claim. My testimony addresses the Company's water and wastewater CCOS studies, its revenue allocations, and rate design proposals.

Q. WERE YOU THE OCA'S COST ALLOCATION AND RATE DESIGN WITNESS IN PAWC'S MOST RECENT PRIOR WATER AND WASTEWATER RATE PROCEEDING IN DOCKET NOS. R-2023-3043189 (WATER) AND R-2023-3043190 (WASTEWATER) ("2023 RATE PROCEEDING")?

A. Yes, I was. In that proceeding I addressed PAWC's water and wastewater CCOS studies, its revenue allocations, and rate design proposals.

Q. HAVE YOU PREPARED EXHIBITS TO ACCOMPANY YOUR TESTIMONY?

A. Yes, I have. Schedules JDM-1 through JDM-3 are attached to my testimony.

Q. PLEASE DESCRIBE PAWC'S REVENUE REQUIREMENT PRESENTATION IN THIS CASE.

A. As discussed in the direct testimony of PAWC witnesses Dr. Christina E. Chard[2] and Mr. Jared Deason,[3] PAWC is requesting revenue requirement increases for its water utility operations (Water Operations) and for four wastewater utility operations (Wastewater Operations). The Company's four Wastewater Operations include a wastewater sanitary sewer system general group ("Wastewater SSS General Operations"), and a combined sewer system group ("CSS Wastewater Operations"). PAWC is also presenting a separate revenue requirement claim for the SSS wastewater system that the Company recently acquired from the Butler Area Sewer Authority ("BASA"), and for the recent acquisition of the CSS wastewater system of the Elizabeth Borough Municipal Authority ("EBMA").

Q. WHY IS PAWC PRESENTING SEPARTATE REVENUE REQUIREMENT CLAIMS FOR BASA AND EBMA?

A. In the BASA and EBMA acquisition proceedings, PAWC requested fair market valuation of the BASA and EBMA assets under Section 1329 of the Public Utility Code 66 Pa. C.S. § 1329. In the Company's 2023 rate proceeding, the Commission's Order directed PAWC to prepare separate CCOS studies for new Section 1329 acquisitions in the first base rate case where those systems are included in the Company's revenue requirement claim. For BASA and EBMA, this is the first base rate case where those systems are included in the Company's revenue requirement claim.

[2] PAWC Statement No. 2, page 6.
[3] PAWC Statement No. 5, page 2-3.

Q. PLEASE DESCRIBE THE SERVICES CURRENTLY PROVIDED BY AND THE RATES ZONES CURRENTLY SERVED BY PAWC.

A. PAWC currently provides water utility service through its Water Operations in eight different rate zones. Those rate zones are as follows:

- Rate Zone 1 - General Statewide Rate
- Rate Zone 2 - Valley
- Rate Zone 3 - Turbotville
- Rate Zone 4 - Farmington
- Rate Zone 5 - East Dunkard
- Rate Zone 6 - Audubon
- Rate Zone 7 - Manwalamink
- Rate Zone 8 - Appalachian

The largest of these rate zones by far is Rate Zone 1, accounting for over 99% of the Company's total water revenue. In addition to these eight rate zones, PAWC filed an application with the Commission to acquire Corner Water and Service Corporation ("Corner"). By Order dated September 2, 2025, the Commission approved PAWC's acquisition of the Corner water system. This acquisition closed on November 20, 2025. PAWC has included Corner in its rate application in this proceeding as Rate Zone 9.

PAWC currently provides Sanitary Sewer System ("SSS") wastewater service through its Wastewater SSS General Operations in eight different rate zones. Those rate zones are as follows:

- Rate Zone 1 – General Statewide Rate
- Rate Zone 1a – Royersford
- Rate Zone 1b – York
- Rate Zone 1c – Foster
- Rate Zone 1d – Butler Area Sewer Authority

- Rate Zone 1e – Sadsbury
- Rate Zone 1f – Farmington
- Rate Zone 1g – Manwalamink

The largest of these rate zones is Rate Zone 1, accounting for approximately 60% of the Company's total SSS wastewater revenue. As noted above, the SSS wastewater system PAWC recently acquired from BASA is included in this case as Rate Zone 1d.

PAWC currently provides combined sanitary sewer system and stormwater ("CSS") wastewater service through its CSS Wastewater Operations in two different rate zones. Those rate zones are as follows:

- Rate Zone 2 - Kane and McKeesport
- Rate Zone 2a - Scranton

The largest of these rate zones is Rate Zone 2a, accounting for nearly 70% of the Company's total CSS wastewater revenue. In its application, the Company is reflecting the acquisition of EBMA, which was completed on December 16, 2025. The Company has included EBMA in this case as Rate Zone 2b.

Q. HOW MANY CCOS STUDIES DID PAWC FILE IN ITS APPLICATION?

A. PAWC filed five CCOS studies in its application. PAWC filed one CCOS study for its Water Operations (PAWC Exhibit No. 12-A), and four CCOS studies for its Wastewater Operations. PAWC filed a CCOS study for its Wastewater SSS General Operations (PAWC Exhibit No. 12-B), a CCOS study for its CSS Wastewater Operations (PAWC Exhibit No. 12-C), and it prepared separate wastewater service CCOS studies for its BASA SSS (PAWC Exhibit No. 12-D) and the EBMA CSS Wastewater Operations (PAWC Exhibit No. 12-E). The Company's CCOS studies for its Water and Wastewater Operations are sponsored by Gregory R. Herbert of Gannett Fleming Valuation and Rate Consultants, LLC.

Q. PLEASE ELABORATE ON PAWC'S PROPOSAL TO RECOVER A PORTION OF ITS WASTEWATER REVENUE REQUIREMENT FROM WATER CUSTOMERS IN THIS PROCEEDING WHICH YOU DISCUSSED EARLIER IN YOUR TESTIMONY.

A. PAWC is proposing to recover $53.0 million, or 19.1%, of its total wastewater revenue requirement through the rates for water service, subject to Commission approval under Section 1311(c) of the Pennsylvania Public Utility Code as amended by Act 11 of 2012 ("Act 11 shift" or "Act 11 assignment"). This represents 76% of its total revenue requirement increase for wastewater that PAWC claims is necessary in this proceeding. In my testimony, the direct water or wastewater cost of service, or revenue requirement, refers to the cost of service in a CCOS study prior to the Act 11 shift, and the total water or wastewater cost of service, or revenue requirement, refers to the cost of service in a CCOS study inclusive of the Act 11 shift.

Q. PLEASE SUMMARIZE YOUR FINDINGS AND RECOMMENDATIONS.

A. A summary of my findings and recommendations are as follows:

- While the water CCOS study filed by PAWC in this proceeding is generally reasonable, the system-wide maximum day and maximum hour extra capacity demand factors used in that CCOS study are outdated and should be modified as discussed in my testimony. The Company's water CCOS study should be revised to reflect my recommended system-wide extra capacity demand factors;

- PAWC should continue to prepare separate wastewater CCOS studies for its existing Section 1329 acquisitions, either individually for each acquisition or as a group, and separate CCOS studies for new acquisitions not included in the current rate case;

- PAWC's proposal to shift a portion of the SSS and CSS wastewater revenue requirement to water customers pursuant to Act 11 of 2012 is not reasonable

as it results in increases for SSS and CSS wastewater operations that are less than the resulting rate increase for water customers. Therefore, no Act 11 shift of the SSS and CSS wastewater revenue requirement to water operations would be appropriate;

- Given the extreme increases that would be experienced by BASA and EBMA wastewater operations without PAWC's proposed Act 11 shift, I believe that the Act 11 shifts proposed by PAWC for BASA and EBMA wastewater operations are appropriate and reasonably provide for rate mitigation. To the extent that the Commission approves revenue requirements for BASA and EBMA wastewater operations that are less than PAWC's requested revenue requirements, the Act 11 shifts should be proportionately adjusted to reflect the reduced revenue requirement;

- If the Commission determines in this proceeding that it is appropriate to assign a portion of the wastewater revenue requirement to water customers, I recommend that the Act 11 shift be assigned to the customer classes PAWC has initially assigned these costs based on each customer class's cost of service as determined by the OCA's revised CCOS study;

- PAWC's proposed distribution of its direct water revenue requirement which excludes the Act 11 shift should be adjusted to reflect the results of the water CCOS study I present in this proceeding. To the extent that the actual direct revenue requirement approved by the Commission in this proceeding is less than the direct revenue requirement requested by PAWC, the direct cost of service for each class with the exception of the Industrial Contact Sales, Other Water Utilities Contract Sales, and Other Water Utilities Group B customer classes, should be proportionately scaled back to reflect the direct water cost of service, or revenue requirement, approved by the Commission in this proceeding. The direct cost of service for each customer class should then be adjusted for the Act 11 wastewater cost of service assigned to water service based on the direct cost of service for each customer class with the exception of the two Contact Sales customer classes, the Other Water Utilities Group A and Group B customer classes, and Public Fire protection service;

- The Residential water customer charges established in this proceeding should be based on the customer charges initially proposed by PAWC for the

Residential class proportionately reduced to reflect the total direct water cost of service increase authorized by the Commission in this proceeding. The volumetric usage charges for the Residential class should be designed to collect the total revenues to be collected from the Residential class (i.e. the direct cost of service and Act 11 assignment), not designed to be collected through monthly customer charges;

- The SSS wastewater revenue increase authorized by the Commission in this proceeding should be assigned to each SSS rate zone based on the percentage share of the SSS increase initially assigned to each rate zone by PAWC. For CSS Rate Zones 2 and 2a (Scranton), I recommend that each rate zone be assigned a percentage increase equal to the overall CSS percentage rate increase authorized by the Commission. Since there is only one BASA and one EBMA rate zone, the rate increases which should apply to the BASA and EBMA rate zones will be specifically determined by the Commission;

- For the SSS and CSS rate zones, excluding BASA and EBMA, I recommend that the revenue increase assigned to each customer class in each rate zone be based on the same percentage of the increase PAWC assigned its requested revenue requirement increase to each class. This would include assigning a portion of the increase to the customer classes in Rate Zone 2a (Scranton). For the BASA and EBMA customer classes, the overall increase for each class should be based on the overall increase authorized by the Commission for the BASA and EBMA rate zones;

- The current monthly Residential customer service charges in SSS Rate Zones 1, 1a, and 1b should be maintained at $15.00, and the current Residential customer service charges in Rate Zones 1d, 1f, and 1g should be reduced to $15.00;

- The current monthly CSS customer charges in Rate Zones 2, 2a, and 2b should be maintained;

- PAWC's proposed deduct adjustment for Residential wastewater customers should be rejected; and

- I generally recommend that PAWC's volumetric rate proposals be

proportionately adjusted to recover the cost of service approved by the Commission for each current SSS and CSS customer class, and for Residential customers, any revenue deficiency resulting from the adoption of my monthly Residential customer charge recommendations and the elimination of the deduct adjustment.

Q. HOW IS THE REMAINDER OF YOUR TESTIMONY ORGANIZED?

A. The remainder of my testimony is divided into five additional sections. The second section of my testimony describes and evaluates the Company's water CCOS study. The third section describes and evaluates the Company's wastewater CCOS studies. The fourth section addresses PAWC's proposal to recover a portion of the costs associated with providing wastewater service through the rates for water utility service pursuant to Section 1311(c) of the Public Utility Code as amended by Act 11 of 2012. The next section presents my recommended distribution of the revenue increase authorized by the Commission for water service in this proceeding and rate design for water service. The final section of my testimony addresses wastewater service rate design, including PAWC's proposed deduct adjustment under which the volumetric component of the monthly wastewater bill for Residential customers will be determined based on average water usage during the winter months of January, February, and March.

II. WATER CLASS COST OF SERVICE STUDY

Q. WHAT IS THE OBJECTIVE OF A CCOS STUDY?

A. A CCOS study is conducted to assist a utility or Commission in determining the level of costs properly recoverable from each of the various classes of customers to which the utility provides service. Allocation of recoverable costs to each class of service is generally based on cost causation principles.

Q. WHAT ARE THE PRIMARY CCOS STUDY METHODOLOGIES UTILIZED FOR WATER UTILITIES?

A. The two most commonly used and widely recognized methods of allocating costs to customer classes for water utilities are the base-extra capacity method and the commodity-demand method. Both methods are set forth in the American Water Works Association's ("AWWA") Manual, M1, *Principles of Water Rates, Fees, and Charges* ("AWWA M1 Manual").

Q. WHAT METHODOLOGY HAS THE COMPANY UTILIZED FOR ITS WATER CCOS STUDY?

A. PAWC has utilized the base-extra capacity method in preparing its water CCOS study. Under the base-extra capacity method, investment and costs are first classified into four primary functional cost categories: base or average capacity, extra capacity, customer, and fire protection. Once investment and costs are classified to these functional categories, they are allocated to the various customer classes.

Q. PLEASE DESCRIBE IN GREATER DETAIL THE FOUR PRIMARY FUNCTIONAL COST CATEGORIES AND HOW THEY ARE ALLOCATED TO THE VARIOUS CUSTOMER CLASSES UNDER THE BASE-EXTRA CAPACITY METHOD.

A. **Base Costs** are costs that tend to vary with the quantity of water used, plus costs associated with supplying, treating, pumping, and distributing water to customers under average load conditions. In PAWC's CCOS study, base costs were allocated to customer classes on the basis of average daily usage.

Extra Capacity Costs are costs associated with meeting usage requirements in excess of average usage. This includes operating and capital costs for additional plant

and system capacity beyond that required for average usage. Extra capacity costs in the Company's study have been subdivided into costs necessary to meet maximum day extra demand and maximum hour extra demand. These extra capacity costs were allocated to customer classes on the basis of each class's maximum day and maximum hour usage in excess of average usage.

Customer Costs are costs associated with serving customers regardless of their usage or demand characteristics. Customer costs include the operating costs related to meters and services, meter reading costs, and billing and collection costs. Customer costs were allocated on the basis of capital cost of meters and services and the number of customer bills.

Fire Protection Costs are costs associated with providing the facilities to meet the potential peak demand of fire protection service. In the Company's study, fire protection costs have been subdivided into the costs associated with meeting Public Fire Protection and Private Fire Protection demands. The extra capacity costs assigned to fire protection were allocated to Public and Private Fire Protection on the basis of the total relative demands of hydrants and fire service lines. In accordance with Section 1328 of the Public Utility Code, public fire costs exceeding 25% of the public fire cost of service were reallocated to other customer classes.

Q. PLEASE IDENTIFY THE CUSTOMER CLASSES THAT THE COMPANY HAS INCLUDED IN ITS WATER CCOS STUDY.

A. The Company has separately identified the cost of serving eight customer classes in its water CCOS study: Residential; Commercial; Industrial; Industrial Contract; Public (Municipal); Other Water Utilities Group A; Other Water Utilities Group B; Other Water Utilities – Contract Sales; Private Fire Protection; and Public Fire Protection.

Q. DO YOU AGREE WITH THE FUNCTIONALIZATION AND ALLOCATION OF COSTS IN THE WATER CCOS STUDY FILED BY PAWC?

A. I generally agree with PAWC's use of the base-extra capacity methodology in its CCOS study. However, I believe that modifications to the system-wide maximum day and maximum hour extra capacity factors utilized to allocate functionalized costs to the various customer classifications are necessary.

Q. WHAT SYSTEM-WIDE MAXIMUM DAY AND MAXIMUM HOUR EXTRA CAPACITY DEMAND FACTORS DID THE COMPANY USE IN ITS INITIAL WATER CCOS STUDY?

A. The Company used a system-wide maximum day extra-capacity demand factor of 1.4 and a system-wide maximum hour extra capacity factor of 2.1 in its water CCOS study.

Q. WHAT WAS THE BASIS FOR THE SELECTION OF THESE SYSTEM-WIDE EXTRA-CAPACITY FACTORS?

A. Mr. Herbert claims that the maximum day extra-capacity demand factor of 1.4 is reflective of actual maximum day to average day demands observed for the years 1988, 1995, 1996, 1999 and 2003. The actual maximum day extra-capacity demand factors experienced by the Company for the years 1987 through 2024 are identified in PAWC Exhibit No. 12-A, Schedule G. The maximum hour extra capacity demand factor of 2.1 is based on an analysis of peak hour consumption experienced by the Company in its three largest operating districts. This peak hour analysis was conducted in 1988. The system-wide maximum day and maximum hour extra-capacity factors used by PAWC in this proceeding are the same factors utilized in the Company's 2023 rate proceeding.

Q. WHAT IS YOUR CONCERN WITH THE SYSTEM-WIDE MAXIMUM DAY AND MAXIMUM HOUR DEMAND FACTORS USED IN THE COMPANY'S WATER CCOS STUDY?

A. My concern with the system-wide demand factors used by the Company is that they are outdated. The system-wide maximum day extra capacity demand factor used in PAWC's CCOS study was last experienced in 2003, which was over 20 years ago. Since 2003, water demand on the PAWC system has changed due to aggressive water conservation, legislation, development, and changing land uses. As shown on Schedule G, since 2011, PAWC's recent actual maximum day extra capacity demand factor has been approximately 1.2. The system-wide maximum hour extra capacity demand factor used in PAWC's water CCOS study is based on an analysis from 1988, which is nearly 40 years old.

Q. DID YOU ALSO EXPRESS CONCERN WITH THE SYSTEM-WIDE EXTRA CACPACITY FACTORS UTILIZED IN THE CCOS STUDY PRESENTED BY THE COMPANY IN THE 2023 RATE PROCEEDING WHICH ARE THE SAME EXTRA CAPACITY FACTORS UTILIZED IN THE CCOS STUDY PRESENTED BY THE COMPANY IN THIS PROCEEDING?

A. Yes. In the 2023 rate proceeding I also expressed concern that system-wide extra capacity factors utilized in the Company's water CCOS study were outdated. In the 2023 rate proceeding, I proposed alternative extra capacity factors and modified the Company's CCOS study to reflect those factors. More specifically, for the system-wide maximum day extra capacity factor, I proposed a system-wide factor of 1.2 which, as just described, reflected PAWC's actual system-wide maximum day extra capacity

demands since 2011. For the system-wide maximum day extra capacity factor, I proposed a factor of 1.5, which was based on the result of a recent demand factor analysis presented by the York Water Company.

Q. IN THE OPINION AND ORDER ADOPTED BY THE COMMISSION IN THE 2023 RATE PROCEEDING, DID THE COMMISSION AGREE THAT THE EXTRA CAPACITY FACTORS UTILIZED IN PAWC CCOS STUDY WERE OUTDATED AND APPROVE THE USE OF YOUR ALTERNATIVE EXTRA CAPACITY FACTORS?

A. In the Opinion and Order adopted by the Commission on July 11, 2024, in the Company's 2023 rate proceeding, on page 209, the Commission found that Company's water CCOS study should be accepted as adequate given the data available in that proceeding. With respect to the system-wide maximum day extra capacity factor utilized in PAWC's CCOS study, last experience in 2003, the Commission noted that water demand on the PAWC system had changed since 2003. The Commission also noted that the Company did not have recent actual system wide maximum hour demand data for its water system. The Opinion and Order in PAWC's 2023 rate proceeding required PAWC to update its maximum hour demand data prior to its next base rate proceeding and to include the results of that analysis in the CCOS filed in its next base rate proceeding.

Q. DID THE COMPANY UPDATE ITS MAXIMUM HOUR DEMAND DATA AND INCLUDE THE RESULTS OF THAT ANALYSIS IN THE CCOS STUDY FILED IN THIS PROCEEDING?

A. While the Company did provide updated maximum hour demand data in Table 1 and Table 2 reflected on page 12 of Mr. Herbert's testimony (PAWC Statement No. 12)

and developed updated maximum hour extra capacity factors based on that data, the Company did not utilize those updated capacity factors in its CCOS study.

Q. WHAT DO YOU RECOMMEND WITH RESPECT TO THE SYSTEM-WIDE DEMAND FACTORS THAT SHOULD BE USED IN THE COMPANY'S WATER CCOSS STUDY IN THIS PROCEEDING?

A. With respect to the maximum day extra capacity demand factor, based on the actual maximum day demand experienced since 2011 as just discussed, I recommend that a demand factor of 1.2 be utilized in the Company's water CCOS study. With respect to the maximum hour extra capacity factor, based on the recent actual demands experienced by the Company as reflected on Table 1 and Table 2 presented by Mr. Herbert, I believe it would be reasonable to utilize a maximum extra capacity demand factor of 1.5 in the Company's water CCOS study.

Q. HAVE YOU REVISED THE COMPANY'S INITIAL WATER CCOS STUDY TO REFLECT YOUR RECOMMENDED SYSTEM-WIDE EXTRA CAPACITY DEMAND FACTORS?

A. Yes. Schedule JDM-1 presents a summary of the Company's CCOS study revised to reflect my recommended system-wide extra capacity demand factors.

Q. HOW DOES THE DIRECT COST OF SERVICE FOR EACH CUSTOMER CLASS IN YOUR REVISED CCOS STUDY COMPARE WITH THE DIRECT COST OF SERVICE FOR EACH CUSTOMER CLASS IN THE COMPANY'S INITIAL CCOSS?

A. A comparison of the direct cost of service in the Company's CCOS study and my revised CCOS study is presented in Table 1. This comparison is based on PAWC's requested revenue requirement claim but excludes any Act 11 shift of the wastewater

revenue requirement to water service customers. I subsequently discuss the Act 11 shift in Section IV of my testimony.

Table 1. Water Direct Cost of Service Study Comparison

Classification	Initial Company	OCA	Difference
Residential	$682,920,439	$675,657,224	($7,263,215)
Commercial	245,729,206	241,688,665	(4,040,541)
Industrial	45,903,121	51,079,540	5,176,419
Industrial – Contract Sales	5,383,847	5,636,175	252,328
Public (Municipal)	25,209,837	27,383,917	2,174,080
Other Water Utilities – Group A	1,188,981	1,266,060	77,079
Other Water Utilities – Group B	29,187	23,821	(5,366)
Other Water Utilities – Contract Sales	7,456,244	7,914,764	458,520
Private Fire Protection	7,794,783	9,199,248	1,404,465
Public Fire Protection	14,138,879	15,905,110	1,766,231
Total:	**$1,035,754,523**	**$1,035,754,523**	**$0**

III. WASTEWATER COST OF SERVICE STUDIES

Q. WHAT METHODOLOGY DID THE COMPANY UTILIZE IN PREPARING ITS FOUR WASTEWATER CCOS STUDIES?

A. Mr. Herbert used the functional cost allocation methodology described in *Financing and Charges for Wastewater Systems; Manual of Practice No. 27* published by the Water Environment Federation ("WEF Manual of Practice No. 27"). This method allocates the cost of providing wastewater service to customer classifications in proportion to each classification's use of the service provider's facilities and services. Costs are assigned to cost components using predominant operational purposes as cost-

causative factors. The functional cost allocation method is generally accepted as a sound method for allocating the cost of wastewater service.

Q. PLEASE IDENTIFY THE CUSTOMER CLASSES INCLUDED IN EACH OF PAWC'S FOUR WASTEWATER CCOS STUDIES.

A. The customer classes included in each of the four wastewater CCOS studies are as follows:

SSS	CSS
Residential	Residential
Non-Residential	Non-Residential
Large Industrial	Industrial
Bulk/Users/VA Hospital	Bulk
Bulk Users - Contract	

BASA	EBMA
Residential	Residential
Non-Residential	Non-Residential
VA Hospital	Bulk

Q. ARE YOU RECOMMENDING ANY ADJUSTMENTS TO THE WASTEWATER CCOS STUDIES PRESENTED BY PAWC?

A. I am not recommending any adjustments to the wastewater CCOS studies presented by PAWC in this proceeding. However, as previously explained, the Company is proposing an Act 11 shift to recover 24% of its total wastewater cost of service, or revenue requirement, from water customers. I address this issue in the next section of my testimony.

Q. IN THE INTRODUCTION SECTION OF YOUR TESTIMONY, YOU INDICATED THAT PURSUANT TO THE COMMISSION'S ORDER IN

THE 2023 RATE PROCEEDING, PAWC WAS REQUIRED TO PREPARE SEPARATE WASTEWATER CCOS STUDIES FOR ITS RECENT SECTION 1329 ACQUISITIONS BASA AND EBMA IN THIS PROCEEDING. SHOULD PAWC CONTINUE TO PREPARE SEPARATE CCOS STUDIES FOR ITS SECTION 1329 ACQUISITIONS AS IT DID IN THIS PROCEEDING?

A. Yes. PAWC should continue to prepare separate CCOS studies for new Section 1329 acquisitions in the first base rate proceeding where those systems are included in PAWC's wastewater system. For Section 1329 acquisitions that are included in the current base rate case, PAWC should continue to prepare separate CCOS studies either individually for each acquisition or as a group.[4] This requirement is reasonable given the amount of revenue requirement at issue and the principle that rates should be reasonably cost-based.[5]

IV. ASSIGNMENT OF WASTEWATER COST OF SERVICE TO WATER CUSTOMERS

Q. PLEASE DESCRIBE PAWC'S PROPOSAL IN THIS PROCEEDING WITH RESPECT TO THE RECOVERY OF ITS WASTEWATER REVENUE REQUIREMENT FROM WATER CUSTOMERS.

A. PAWC is proposing to recover a portion of its wastewater revenue requirement from water customers pursuant to Section 1311(c) of the Pennsylvania Public Utility Code as amended by Act 11 of 2012. PAWC is proposing to increase wastewater rates – after the Act 11 shift – by 7.8%, or $16.3 million. The unrecovered wastewater revenue

[4] The group should not include Section 1329 acquisitions that are combined sewer systems. The combined systems (whether or not acquired under Section 1329) should be included in the separate CCOS study for CSS.
[5] PAWC claims that the full cost of service for the two Section 1329 systems (BASA and EBMA) is $53.4 million. See PAWC Exhibit Nos. 12-D and 12-E.

requirement proposed to be allocated to water service is $53.0 million. Absent an allocation of any portion of the wastewater revenue requirement to PAWC's water service, on average, rates to wastewater customers, would need to increase by 33.2%.

Q. WHAT DOES SECTION 1311(c) PROVIDE?

A. Section 1311 reads as follows:

> § 1311 Valuation of and return on the property of a public utility.
>
> * * *
>
> (c) Segregation of property. When any public utility furnishes more than one of the different types of utility service, the Commission shall segregate the property used and useful in furnishing each type of such service, and shall not consider the property of such public utility as a unit in determining the value of the rate base of such public utility for the purpose of fixing base rates. A utility that provides water and wastewater service shall be exempt from this subsection upon petition of a utility to combine water and wastewater revenue requirements. The Commission, when setting base rates, after notice and an opportunity to be heard, may allocate a portion of the wastewater revenue requirement to the combined water and wastewater customer base **if in the public interest**.
>
> * * *
>
> (e) Definition. As used in this section, the term "utility that provides both water and wastewater service" shall include separate Companies that individually provide water and wastewater service so long as the Companies are wholly owned by a common parent company.

66 Pa. C.S. § 1311 (effective April 16, 2012) (emphasis added).

Q. SPECIFICALLY, HOW MUCH OF THE WASTEWATER REVENUE REQUIREMENT OF EACH OF THE COMPANY'S SERVICE AREAS DOES PAWC PROPOSE TO ASSIGN TO WATER CUSTOMERS?

A. As shown in Table 2, 19.1% of the total wastewater cost of service is being assigned to water customers. This represents 76.5% of the wastewater revenue requirement increase requested by PAWC in this proceeding.

Table 2. PAWC Direct Wastewater Cost of Service and Allocation to Water Service

	Direct Cost of Service	Water Allocation	Total Revenue Requirement
Sanitary Systems	$128,602,237	(12,710,621)	$115,891,616
Combined Systems	96,162,959	(7,062,475)	89,100,484
BASA	48,125,644	(30,280,040)	17,845,604
EBMA	5,254,181	(2,957,046)	2,297,135
Total	**$278,145,021**	**$(53,010,182)**	**$225,134,839**
Percent	**100.0%**	**19.1%**	**80.9%**

Q. BASED ON YOUR EXPERIENCE AS EXPERT WITNESS ON RATE DESIGN AND COST ALLOCATION, DO YOU HAVE ANY RECOMMENDATIONS TO THE COMMISSION FOR HOW TO DETERMINE WHETHER SUCH AN ALLOCATION IS IN THE PUBLIC INTEREST?

A. Yes. At the outset, I recognize that defining the "public interest" can be difficult. There can be more than one aspect of "the public" that is interested in, and affected by, any public policy issue including recent rate increases approved by the Commission for PAWC and allocated to wastewater customers. Furthermore, there are at least two distinct elements of the affected public: the utility's wastewater customers and the utility's water customers that must be considered. So the "public interest" should

remain a flexible concept, but could include a consideration of policies that promote the cost-effective provision of safe and reliable water and wastewater service throughout the Commonwealth as well as questions about rate shock and affordability.

Q. IS THERE A RANGE OF OPTIONS THAT THE COMMISSION COULD CHOOSE TO IMPLEMENT 1311(c)?

A. Yes, the Commission can choose from a wide variety of options that would be consistent with the language in Section 1311(c), but that might not be consistent with well-established regulatory principles. At one extreme, the Commission could do nothing. As I understand it, Section 1311(c) is discretionary, not mandatory. So, the Commission could choose to allocate none of the wastewater revenue requirement to water customers. Such a decision would be lawful but would not accomplish an important purpose of Act 11, which is to provide some relief to wastewater customers in relatively small or overburdened service areas.

At the other extreme, the Commission could allocate almost the entire wastewater revenue requirement increase to water customers as is proposed by PAWC. This subsidy would benefit wastewater customers, but it would come at the expense of PAWC's water customers who would be required to pay not only for their own wastewater service but that of others because of the Act 11 shift. This is because nearly 90% of PAWC water customers are not PAWC wastewater customers.

Q. HOW HAS PAWC ASSIGNED OR ALLOCATED THE ACT 11 SHIFT WASTEWATER COSTS ASSIGNED TO WATER CUSTOMERS TO EACH OF THE CUSTOMER CLASSES INCLUDED IN THE COMPANY'S WATER CCOS STUDY?

A. PAWC has generally directly assigned the wastewater Act 11 shift costs tied to a specific wastewater customer class to the same water class. That is, for example, an Act 11 shift from the Residential wastewater class has been assigned to the Residential water customer class. PAWC provides wastewater service to certain customer classes for which there is no corresponding water customer class, and these Act 11 shift costs have generally been allocated to the water customer classes based on the Act 11 costs directly assigned to each water customer class. None of the wastewater costs assigned to water customers have been assigned to the Other Water Utilities Group A or Group B classes, or the Other Water Utilities Contract Sales or Industrial Contract Sales classes. PAWC has also not assigned any of the wastewater Act 11 shift costs to the Public Fire Protection class. This is consistent with the requirement of Section 1328 of the Public Utility Code which limits Public Fire Protection charges to 25% of the indicated cost of service.

Q. WHAT IS THE IMPACT OF THE COMPANY'S PROPOSED ACT 11 SHIFT ON THE REVENUES INCREASES THAT WILL BE EXPERIENCED BY WASTEWATER CUSTOMERS?

A. Table 3 provides a comparison of the revenue increases that would be experienced by SSS, CSS, BASA, and EBMA wastewater operations if presents rates were increased to the direct cost of service without the Act 11 shift, and the rate increase that would be experienced with the Act 11 shift. As shown in Table 3,without the Act 11 shift, SSS and CSS wastewater operations would experience rate increases of 18.5% and 12.1%, respectively. With the Act 11 shift, SSS and CSS wastewater operations would experience rate increases of 6.8% and 3.9%, respectively. As further shown in Table 3, without the Act 11 shift, BASA and EBMA wastewater operations would experience

rate increases of 277.5% and 197.3% respectively. With the Act 11 shift, BASA and EBMA wastewater operations would experience rate increases of 40.0% and 30.0%, respectively. Without the Act 11 shift, water operations would experience a rate increase of 10.5%, and with the Act 11 shift receive a rate increase of 16.2%.

Table 3. Impact of Act 11 Shift on Wastewater Rate Increases

	Direct Cost of Service			Total Revenue Requirement	
	Present Rates	Increase	Percent	Increase	Percent
Sanitary Systems	$108,561,975	$20,040,262	18.5%	$7,329,641	6.8%
Combined Systems	85,758,589	10,404,370	12.1%	3,341,895	3.9%
BASA	12,748,475	35,377,169	277.5%	5,097,129	40.0%
EBMA	1,767,267	3,486,914	197.3%	529,868	30.0%
Total	**$208,836,306**	**$69,308,715**	**33.2%**	**$16,298,533**	**7.8%**

Q. IS PAWC'S PROPOSAL TO ASSIGN A PORTION OF THE WASTEWATER REVENUE REQUIREMENT TO WATER CUSTOMERS REASONABLE, AND IS THE PROPOSED AMOUNT ALLOCATED TO WATER CUSTOMERS REASONABLE?

A. Under PAWC's proposed Act 11 shift, the rate increase that would be experienced by SSS and CSS wastewater operations of 6.8% and 3.9%, respectively, would be less than the 16.2% increase which would be experienced by water customers at PAWC's proposed revenue requirement with the Act 11 shift. I do not believe that PAWC's proposal to assign a portion of the SSS and CSS wastewater revenue requirement to water customers is reasonable when it results in a rate increase for SSS and CSS wastewater operations that is less than the resulting rate increase for water customers. Absent any Act 11 shift of the SSS and CSS wastewater operations revenue requirement to water customers, at PAWC's requested revenue requirement, the

increases for SSS and CSS wastewater operations would be 18.5% and 12.1%, respectively. The actual revenue requirement increases approved by the Commission for SSS and CSS wastewater operations will certainly be less than PAWC's requested revenue requirement increases, and would reduce the increases experienced by SSS and CSS wastewater operations to less than the 18.5% and 12.1% that would occur, respectively, under the Company's requested revenue requirement. I do not believe that the revenues increases that would be experienced by SSS and CSS wastewater operations would require mitigation. Therefore, I do not believe any Act 11 shift of the SSS and CSS wastewater revenue requirement to water operations would be appropriate.

Q. WOULD AN ACT 11 SHIFT FOR BASA AND EBMA WASTEWATER OPERATIONS BE APPROPRIATE?

A. Yes. I believe that the 277.5% and 197.3% rate increases that would be experienced by BASA and EBMA wastewater operations, respectively, without an Act 11 shift, are extreme, inconsistent with the principal of gradualism,[6] and require mitigation. I believe that the Act 11 shift for BASA and EBMA wastewater operations proposed by PAWC is appropriate and reasonably provides for rate mitigation. As proposed by the Company, to the extent the Commission authorizes revenue requirements for BASA and EBMA wastewater operations that are less than PAWC's requested revenue requirements, the Act 11 shift to water customers should proportionately be reduced to reflect the reduced revenue requirements.

[6] The concept of gradualism is discussed in greater detail in Section V of my testimony.

Q. IS THE METHOD THAT PAWC USES TO ASSIGN THE WASTEWATER REVENUE REQUIREMENT TO THE WATER CUSTOMER CLASSES REASONABLE?

A. As previously described, PAWC has generally assigned the wastewater Act 11 shift tied to a specific wastewater customer class to the same water customer class. If the Commission determines in this proceeding that it is in the public interest to assign any portion of the wastewater revenue requirement to water customers, the Company's proposed allocation to the various water customer classes is not reasonable. Approximately 90% of PAWC's water customers are not wastewater customers. Under PAWC's proposal, Residential water customers would be responsible for a portion of the costs associated with serving Residential wastewater customers. Residential water customers are largely not directly responsible for these wastewater costs. I recommend that the Act 11 shift be assigned to the customer classes PAWC has initially assigned these costs to based on each customer class's cost of service as determined by the OCA's revised CCOS study. In the Company's 2023 rate proceeding, the Company also proposed an Act 11 shift. In its Opinion and Order in that proceeding, the Commission approved an allocation of the Act 11 shift to the water customer classes the Company had proposed to assign those costs based on the cost of service for each customer class (Opinion and Order, at 233-234). If the Commission determines that an Act 11 shift is appropriate in this proceeding, the same approach adopted in the 2023 rate proceeding should be approved in this proceeding. Schedule JDM-3 attached to my testimony presents a comparison of the Act 11 assignments to each customer class based on the Company's proposal in this proceeding, and the Act 11 assignments that would result based on the Company's CCOS study and the OCA's revised CCOS study.

V. WATER SERVICE REVENUE DISTRIBUTION AND RATE DESIGN

Q. WHAT ARE SOME OF THE PRINCIPLES OF A SOUND REVENUE ALLOCATION?

A. A sound revenue allocation should:

- Utilize class cost-of-service study results as a guide;
- Provide stability and predictability of the rates themselves, with a minimum of unexpected changes that are seriously adverse to ratepayers or the utility (gradualism);
- Yield the total revenue requirement;
- Provide for simplicity, certainty, convenience of payment, understandability, public acceptability, and feasibility of application; and
- Reflect fairness in the apportionment of the total cost of service among the various customer classes.[7]

Q. HOW SHOULD THE RESULTS OF YOUR WATER CCOS STUDY BE ADJUSTED TO REFLECT A LOWER THAN REQUESTED WATER REVENUE REQUIREMENT INCREASE AUTHORIZED BY THE COMMISSION IN THIS PROCEEDING?

A. I recommend that the direct cost of service, which would exclude the Act 11 shift, indicated by my water CCOS study for each customer class be proportionately scaled-back to reflect the actual water revenue increase authorized by the Commission in this proceeding. To determine the total cost of service for each customer class, as previously explained, the wastewater revenue requirement assigned to water service should be allocated to the customer classes to which it was initially assigned by the Company based on the direct cost of service indicated by my cost-of-service study.

[7] *Principles of Public Utility Rates*, Second Edition, James C. Bonbright; Albert L. Danielsen; David R. Kamerschen; Public Utility Reports, Inc., 1988, pages 383-384.

Q. PLEASE SUMMARIZE THE RESULTS OF THE COMPANY'S WATER CCOS STUDY, THE PRESENT RATE REVENUES FOR EACH CUSTOMER CLASS, AND THE COMPANY'S PROPOSED REVENUE FOR EACH CUSTOMER CLASS BASED ON PAWC'S CLAIMED COST OF SERVICE.

A. Table 4 summarizes the results of PAWC's water CCOS study, and identifies present rate revenues and PAWC's proposed rate revenues. PAWC's proposed rates for each customer class are generally based on the results of its CCOS study, with several exceptions. Proposed rates for the Industrial Contract Sales and Other Water Utilities Contract Sales customer classes have been maintained at present rates as the rates for these classes are set by each customer's contract with PAWC. Proposed rates for the Other Water Utilities Group B have also generally been maintained at present rates as PAWC's CCOS study indicates that present revenues for this class are significantly in excess of the cost of service.

Table 4. Summary of PAWC Cost of Service Study and Present and Proposed Rates for Water Service

Water	Direct Cost of Service	Wastewater to Water Allocation	Total Cost of Service	Present Rates	Proposed Rates	Increase	Percent
Residential	$682,920,439	$38,603,876	$721,524,315	$620,483,188	$725,425,433	$104,942,245	16.9%
Commercial	245,729,206	11,227,453	256,956,659	224,318,174	258,361,905	34,043,731	15.2%
Industrial	45,903,121	1,838,332	47,741,453	42,905,050	48,002,427	5,097,377	11.9%
Industrial Contract Sales	5,383,847	0	5,383,847	3,686,620	3,686,620	0	0.0%
Public (Municipal)	25,209,837	1,034,699	26,244,536	24,548,573	26,388,708	1,840,135	7.5%
Other Water Utilities Group A	1,188,981	0	1,188,981	1,002,544	1,162,821	160,277	16.0%
Other Water Utilities Group B	29,187	0	29,187	59,124	59,079	(45)	-0.1%
Other Water Utilities Contact Sales	7,456,244	0	7,456,244	3,320,460	3,320,460	0	0.0%
Private	7,794,783	305,822	8,100,605	5,749,012	8,153,435	2,404,423	41.8%
Public	14,138,879	0	14,138,879	11,062,317	14,203,816	3,141,499	28.4%
Total	**$1,035,754,523**	**$53,010,182**	**$1,088,764,705**	**$937,135,063**	**$1,088,764,704**	**$151,629,642**	**16.2%**

Q. PLEASE SUMMARIZE THE RESULTS OF YOUR WATER CCOS STUDY, THE PRESENT RATE REVENUES FOR EACH CUSTOMER CLASS, AND YOUR PROPOSED REVENUES FOR EACH CUSTOMER CLASS BASED ON PAWC'S CLAIMED COST OF SERVICE, ADJUSTED TO REFLECT THE OCA'S RECOMMENDED ACT 11 SHIFT.

A. Table 5 summarizes the results of my CCOS study at present and proposed rate revenues based on PAWC's claimed cost of service, adjusted to reflect the OCA's recommended Act 11 shift.

Table 5.Summary of OCA Cost of Service Study and Present and Proposed Rates for Water Service

Classification	OCA Direct Cost of Service	Wastewater to Water Allocation	Total Cost of Service	Present Rates	Proposed Rates	Increase	Percent
Residential	$675,657,224	$22,344,960	$698,002,184	$620,483,188	$704,484,126	$84,000,938	13.5%
Commercial	241,688,665	3,810,724	245,499,389	224,318,174	252,000,307	27,682,133	12.3%
Industrial	51,079,540	623,951	51,703,491	42,905,050	53,258,848	10,353,798	24.1%
Industrial Contract Sales	5,636,175	0	5,636,175	3,686,620	3,686,620	0	0.0%
Public (Municipal)	27,383,917	351,188	27,735,105	24,548,573	28,547,103	3,998,530	16.3%
Other Water Utilities Group A	1,266,060	0	1,266,060	1,002,544	1,277,817	275,273	27.5%
Other Water Utilities Group B	23,821	0	23,821	59,124	59,079	(45)	0.0%
Other Water Utilities Contract Sales	7,914,764	0	7,914,764	3,320,460	3,320,460	0	0.0%
Private	9,199,248	103,799	9,303,047	5,749,012	8,153,435	2,404,423	41.8%
Public	15,905,110	0	15,905,110	11,062,317	14,203,816	3,141,499	28.4%
Total	**$1,035,754,523**	**$27,234,622**	**$1,062,989,146**	**$937,135,063**	**$1,068,991,610**	**$131,856,548**	**14.1%**

Q. PLEASE EXPLAIN HOW YOU DETERMINED YOUR PROPOSED REVENUE DISTRIBUTION IN TABLE 5.

A. As explained above, with several exceptions, PAWC claims it is proposing rates for water service for each customer class based on the CCOS study sponsored by Mr. Herbert. The revenue distribution I have proposed for water service is based on the CCOS study I am sponsoring in this proceeding, with several of the same exceptions proposed by PAWC. More specifically, I have adopted the same increases proposed by PAWC for the Industrial Contract Sales, Other Water Utilities Contract Sales, and Other Water Utilities Group B customer classes. I have adopted the same exceptions proposed by PAWC for Industrial and Other Water Utilities Contract Sales because the rates for these customer classes are set by contract and will not change as a result of this proceeding. I have adopted the same exception proposed by PAWC for Other Water Utilities Group B because, like the Company's CCOS study, my revised CCOS

study indicates that present rates for this customer class significantly exceed the cost of service. In addition to adopting the Company's proposed rates for the Contract Sales and Other Water Utilities Group B customer classes, I have also adopted the increases proposed by PAWC for Private Fire and Public Fire Protection service to maintain gradualism. For the remaining Residential, Commercial, Industrial, Public (Municipal), and Other Water Utilities Group A customer classes, I am proposing rates based on the total cost of service indicated by my water CCOS study, adjusted for the revenue deficiency resulting from adopting the Company's proposed rates for the Contract Sales and Other Water Utilities Group B customer classes, and Private Fire and Public Fire Protection services.

Q. HOW SHOULD YOUR PROPOSED RATES FOR EACH CUSTOMER CLASS BE ADJUSTED TO REFLECT THE ACTUAL REVENUE REQUIREMENT INCREASE AUTHORIZED BY THE COMMISSION IN THIS PROCEEDING?

A. The direct cost of service for each customer class, with the exception of the Industrial Contract Sales, Other Water Utilities Contract Sales, and Other Water Utilities Group B customer classes, should be proportionately scaled back to reflect the direct water cost of service, or revenue requirement, approved by the Commission in this proceeding. The direct cost of service for each customer class should then be adjusted to account for the Act 11 wastewater cost of service assigned to water service as determined by the Commission based on the direct cost of service for each class with the exception of the two Contract Sales customer classes, the Other Water Utilities Group A and B customer classes, and Public Fire Protection service.

Q. PLEASE SUMMARIZE PAWC'S WATER RATE DESIGN PROPOSAL FOR THE RESIDENTIAL CLASS IN THIS PROCEEDING.

A. As indicated in Section I of this testimony, PAWC currently serves eight water rate zones (Rate Zones 1-8), and the largest of these rate zones is Rate Zone 1. The Company is also proposing to include its acquisition of the Corner water system as Rate Zone 9. The Company is proposing to consolidate the rates for Rate Zones 2, 3, 4, and 5 into Rate Zone 1. The Company is proposing to move rates for Rate Zones 6, 7, 8, and 9 toward the rates in Rate Zone 1. The Company is proposing a 5/8-inch meter monthly customer charge of $20.00 for Residential, Commercial, and Municipal customers in Rate Zone 1. The current 5/8-inch meter monthly customer charge for Rate Zone 1 is $18.80. In the rate zones not being consolidated with Rate Zone 1, the Company is proposing to move the monthly customer charges directionally toward those of Rate Zone 1 across all classes. For Rate Zone 1, the current Residential usage charge is $1.8772 per 100 gallons, and the Company is proposing to increase the Rate Zone 1 Residential usage charge to $2.3069 per 100 gallons.

Q. DOES PAWC PRESENT AN ANALYSIS TO SUPPORT ITS INCREASE TO THE MONTHLY CUSTOMER CHARGE FOR A 5/8-INCH METER TO $20.00?

A. The Company presents a direct customer cost analysis which it claims only reflects direct costs in PAWC Exhibit No. 12-A, Attachment RS1j, pages 2 and 3. That analysis indicates that a cost-based monthly customer charge for a 5/8-inch meter would be $26.15. This is less than PAWC's proposed charge of $20.00.

Q. IS PAWC'S PROPOSED RESIDENTIAL RATE DESIGN REASONABLE?

A. PAWC's proposal to increase the current Residential customer charge of $18.80 to $20.00 for customers for Rate Zones 1 based on the Company's requested revenue requirement increase reflects an increase of 6.4%, which is less than the overall Residential cost of service revenue requirement increase proposed by PAWC for Rate Zone 1 of 16.9%. The current 5/8-inch meter monthly customer charge in Rate Zones 2 and 3 is also $18.80, and PAWC is also proposing to increase the charge to $20.00. For Rate Zones 4 and 5, PAWC is proposing to decrease the 5/8-inch monthly Residential customer charge to $20.00. For Rate Zone 6, the Company is proposing to increase the current charge from $16.00 to $20.00, or 19.0%. For Rate Zone 7, the Company is proposing to increase the current charge of $8.89 to $9.75, or 9.7%. For Rate Zone 8, the Company is proposing to increase the charge from $11.28 to $14.70, or 30.3%, and for Rate Zone 9, the Company is proposing to increase the charge from $16.28 to $20.00, or 18.5%. Based on the Company's proposed revenue requirement, I find the Company's proposed changes to the 5/8-inch monthly Residential customer charge to be reasonable and consistent with rate consolidation.

Q. WHAT IS YOUR RECOMMENDATION WITH RESPECT TO THE RATES THAT SHOULD BE ESTABLISHED FOR THE RESIDENTIAL CLASS IN THIS PROCEEDING TO REFLECT THE REVENUE REQUIREMENT INCREASE AUTHORIZED BY THE COMMISSION IN THIS PROCEEDING?

A. As indicated in Table 4 and 5 in my testimony, and Exhibit 12-A, page 1, of the Company's application, PAWC's claims that the total direct water cost of service is $1,035,754,523. This direct cost of service excludes any Act 11 assignment of the wastewater cost of service to water service. As indicated on Table 4 and Exhibit 12-A,

page 1, the direct Residential cost of service under the Company's CCOS study is $682,920,439, or 65.93% of the total direct cost of service. As indicated in Table 5 and Schedule JDM-1 of my testimony, the direct Residential cost of service under the OCA's cost of service study is $675,757,224, or 65.23% of the total direct cost of service study. To determine the direct cost of service to assign the Residential class based on the Commission's authorized revenue requirement increase the total direct cost of service authorized should be multiplied by 65.23%.

The total direct cost of service of the customer classes receiving an Act 11 assignment of the wastewater revenue requirement is $1,005,008,593 and under an assignment of the Act 11 shift to water service customer classes based on a cost of service, Residential customers would receive an assignment of 67.23% of the Act 11 assignment authorized by the Commission. The Act 11 shift assigned to Residential class under this approach should be added to the Residential direct cost of service calculated as previously described to determine the total revenues to be collected from the Residential class and design rates. These total revenues should be recovered through the monthly customers and usage charges assessed to Residential customers.

The Residential customers charges established in this proceeding should be based on the customer charges initially proposed by PAWC for the Residential class proportionately reduced to reflect the total direct water cost of service increase authorized by the Commission in this proceeding. That is, if the direct cost of service increase authorized for water service in this proceeding is 40% of PAWC's total requested direct water cost of service increase, PAWC's proposed increases in Residential customer charges should be reduced by 60%. The volumetric usage charges for Residential customers in this proceeding should be designed to collect the total

revenues to be collected from the Residential class (i.e. direct cost of service and Act 11 assignment), not designed to be collected through monthly customer charges.

VI. WASTEWATER SERVICE REVENUE DISTRIBUTION AND RATE DESIGN

Q. HOW ARE YOU RECOMMENDING THAT THE WASTEWATER REVENUE DISTRIBUTION INITIALLY ASSIGNED BY PAWC TO EACH RATE ZONE BE ADJUSTED TO REFLECT THE WASTEWATER REVENUE REQUIREMENT AUTHORIZED BY THE COMMISSION?

A. The wastewater revenue allocations proposed by PAWC for each SSS and CSS rate zone are presented on page 1 of PAWC Exhibits 10-B and 10-C, respectively. I recommend that the SSS revenue increase authorized by the Commission in this proceeding be assigned to each SSS rate zone based on the percentage share of the SSS increase initially assigned to each rate zone by PAWC. For CSS Rate Zones 2 and 2a (Scranton), I recommend that each rate zone be assigned a percentage increase equal to the overall CSS percentage rate increase authorized by the Commission. I note that PAWC initially proposed no increase for Rate Zone 2a (Scranton). I subsequently discuss PAWC's initial proposal for Rate Zones 2a (Scranton) in greater detail later in this section of my testimony. There is only one BASA rate zone and one EBMA rate zone and, therefore, the Commission will specifically determine the rate increases which should apply to the BASA and EBMA rate zones.

Q. WHAT IS YOUR RECOMMENDATION WITH RESPECT TO HOW THE REVENUE DISTRIBUTION THAT IS ASSIGNED TO EACH RATE ZONE BASED ON THE REVENUE REQUIREMENT AUTHORIZED BY THE COMMISSION IN THIS PROCEEDING BE ALLOCATED TO THE CUSTOMER CLASSES IN EACH RATE ZONE?

A. In the SSS rate zones, I recommend that the revenue requirement increase authorized by the Commission be assigned to each class be based on the same percentage PAWC assigned its requested revenue requirement increase to each customer class shown on Exhibit 10-B, page 1. For the CSS rate zones, I recommend that for the Bulk customer class, the revenue allocation proposed by PAWC be maintained. For the Bulk customer class, with the exception of eliminating the Distribution System Improvement Charge ("DSIC") which has been rolled into base rates in this proceeding, PAWC has proposed maintaining Bulk customers at present rates. For the remaining CSS customer classes, I recommend that the revenue requirement increase be assigned to each customer class in proportion to the increase initially assigned to each customer class by PAWC. This includes assigning a portion of the increase to the customer classes in Rate Zone 2A (Scranton). For BASA and EBMA, PAWC has assigned the same percentage increase to each customer class based on the overall increases requested for BASA and EBMA, and I recommend that the increase for each customer class be based on the overall increases authorized by the Commission for the BASA and EBMA rate zones.

Q. WHY DID PAWC PROPOSE NO INCREASE FOR SCRANTON IN RATE ZONE 2A, ITS LARGEST CSS SERVICE AREA?

A. In the Scranton application proceeding, the Commission approved an Amended Asset Purchase Agreement. As described in PAWC Statement No. 2 (Chard), page 20, lines 12-23, PAWC is proposing no increase for Scranton to comply with the Amended Asset Purchase Agreement.

Q. CAN THE COMMISSION AUTHORIZE A RATE INCREASE FOR RATE ZONE 2A WHICH IS GREATER THAN THE INCREASE IDENTIFIED IN PAWC'S AMENDED ASSET PURCHASE AGREEMENT?

A. Counsel for OCA informs me that the Commission has authority to approve rates that exceed or otherwise differ from those identified in PAWC's Amended Asset Purchase Agreement with Scranton. Therefore, I have proposed an increase for Scranton equal to the overall system average CSS increase authorized by the Commission in this proceeding. I would note that in the 2023 rate proceeding, PAWC also proposed no rate increase for Scranton for the same reasons it is proposing no increase in this proceeding. In its Opinion and Order in the 2023 rate proceeding, the Commission found that an increase for Scranton was reasonable (Pages 233-234).

Q. IS THE COMPANY PROPOSING ANY CHANGES TO ITS WASTEWATER RATE DESIGN IN THIS PROCEEDING?

A. Yes. The Company is proposing to change the way it determines the volumetric component of wastewater bills for Residential customers from the method currently utilized. Under the current method, volumetric charges are based on total monthly metered water usage. The Company is proposing to adopt a methodology which it refers to as a "deduct adjustment." This methodology is also commonly referred to as "winter averaging."

Q. PLEASE DESCRIBE THE DEDUCT ADJUSTMENT PROPOSED BY PAWC.

A. The deduct adjustment is a method for determining the volumetric component of a wastewater bill that attempts to separately meter water usage that is likely to go through the wastewater system from water usage that is used for outdoor purposes in the summer (e.g., watering lawns, filling pools, etc.). Under a deduct adjustment, a customer's bill in the winter is determined by actual metered water usage for the month, and in the summer the customer's bill is determined by the lesser of actual metered

water usage for the month or the average water consumption for that customer in the winter months.

For example, in the winter period, if a customer's metered water usage is 4,000 gallons, the customer is billed for 4,000 gallons of water usage on their wastewater bill. In the summer period, if a customer's metered water usage is 6,000 gallons and their average winter usage over the previous winter months was 4,000 gallons per month, the customer would only be billed for 4,000 gallons on their wastewater bill. If that customer's metered usage during a summer month was 3,000 gallons and their average winter usage over the previous winter months was 5,000 gallons per month, they would be billed for 3,000 gallons of usage on their wastewater bill.

Q. HOW IS THE COMPANY DEFINING WINTER MONTHS UNDER ITS DEDUCT ADJUSTMENT PROPOSAL?

A. The Company is defining the winter months as January, February, and March. These three months are the months for which the baseline usage will be determined for the purposes of billing for the rest of the year.

Q. WILL THE WINTER AVERAGE CALCULATION BE THE SAME FOR EVERY CUSTOMER?

A. No. The winter averaging calculation will be customized for each individual customer.

Q. WHAT HAPPENS IN CASES WHERE THE CUSTOMER IS NEW OR OTHERWISE DOES NOT HAVE ANY WINTER BILLING HISTORY TO DETERMINE WINTER AVERAGE USAGE?

A. In cases where the customer is new or there is no winter average billing data upon which to base a calculation, the Company will use the actual consumption until sufficient winter billing data is available.

Q. WHY IS THE COMPANY PROPOSING A DEDUCT ADJUSTMENT IN ITS RATE DESIGN FOR RESIDENTIAL WASTEWATER SERVICE?

A. The Company claims that the deduct adjustment methodology will more closely align summertime wastewater bills with cost-causation rate design principles. Under the current rate structure, the Company claims that customers are charged for wastewater service in the summer based on metered water usage that is not actually going through the wastewater system, and the deduct adjustment methodology remedies that inconsistency.

Q. WHAT EFFECT DOES THE DEDUCT ADJUSTMENT HAVE ON THE VOLUMETRIC RATES FOR WASTEWATER SERVICE?

A. The deduct adjustment methodology results in volumetric rates that are higher than they otherwise would have been for the same revenue requirement. This is because the volumetric billing determinants used for wastewater rate design will be lower than they otherwise would have been as the Company claims that water usage that would have been included in the summer that was being used for outdoor purposes will now be excluded from the rate calculation.

Q. SHOULD PAWC'S PROPOSED DEDUCT ADJUSTMENT BE APPROVED BY THE COMMISSION?

A. No. In response to OCA 08-004, the OCA requested and was provided the monthly number of customers served by PAWC and billed water consumption for each customer class. Table 6 below provides a comparison of the average monthly water usage of a Residential customer during the months of January through March that PAWC proposes to utilize under its deduct adjustment methodology, and the average monthly usage for the remaining months of the year. As shown in Table 6, the difference

between the winter average period usage and usage during the remaining months of PAWC's Residential customers is immaterial, and for the last two years ranged from 119 to 165 gallons per month. I would expect that during the summer months customers are likely to take more showers and wash clothes more often. The average shower uses 17.2 gallons of water.[8] A standard washing machine uses 20 gallons of water per load.[9] A few extra showers and clothes washing loads per month would totally account for the historic difference between Residential winter and summer water usage. Therefore, it does not necessarily follow that PAWC's Residential customer outdoor water usage during the summer is sufficiently significant to justify adopting a deduct adjustment and the resulting increase in volumetric rates and should be rejected.

OCA witness Roger Colton (OCA Statement 5) also addresses PAWC's deduct adjustment proposal. Mr. Colton demonstrates that the Company's winter averaging proposal will disproportionately harm low-income customers, and he found that the number of Residential customers that have no water consumption because they are away from their homes ("snowbirds") increases substantially in the months PAWC proposes to utilize in its winter averaging calculation. For such snowbird customers, it would be unreasonable to bill customers that are away from their homes during the winter months for wastewater service during the non-winter months of the year based on the assumption that any water usage by these customers in excess of their winter average usage did not flow through PAWC's wastewater system.

[8] https://www.thewaterscrooge.com/blog/how-many-gallons-of-water-does-a-shower-use#.~.text=The%20average%20American%20shower%20uses,the%20rise%20across%20the%20US.
[9] https://www.whirlpool.com/blog/washers-and-dryers/he-washing-machine-water-usage.html#:~:text=ENERGY%20STAR%20states%20that%2C%20on,compared%20to%20a%20regular%20washer.

Table 6. Average Residential Customer Water Usage Comparison (1,000 gallons)	
Period	**Usage**
January - March 2023	3,307
April - December 2023	3,426
Difference	*119*
Ratio	104%
January - March 2024	3,256
April - December 2024	3,421
Difference	*165*
Ratio	105%

Q. IN THE 2023 RATE PROCEEDING DID PAWC PRESENT A PROPOSAL SIMILAR TO THE DEDUCT ADJUSTMENT THE COMPANY IS PROPOSING IN THIS PROCEEDING?

A. Yes. PAWC presented a proposal that was essentially identical to the deduct adjustment the Company is presenting in this proceeding. In the 2023 rate proceeding the proposal was referred to as "winter averaging." In its Order in the 2023 rate proceeding, the Commission rejected PAWC winter averaging proposal for several reasons. First, based on the differences between actual winter and non-winter Residential water usage similar to that which I am presenting in this proceeding, the Commission found the differences to be de minimus, and not sufficiently significant to justify adopting winter averaging and the resulting increase in volumetric rates.[10] In addition, the Commission found that PAWC's winter averaging proposal may have a disproportionate adverse impact on low income customers.

[10] In the 2023 rate proceeding, I presented evidence that the differences ranged from 100 to 173 gallons per month.

Q. PLEASE DESCRIBE PAWC'S PROPOSED RATE DESIGN WITH RESPECT TO MONTHLY SSS AND CSS RESIDENTIAL CUSTOMER CHARGES.

A. The current Residential monthly service charge in SSS Rate Zones 1a and 1b is $15.00, and PAWC is proposing to set that charge at $20.00. In SSS Rate Zones 1c and 1e customers are currently assessed a flat charge, and PAWC does not assess separate customer service and usage charges. In SSS Rate Zone 1c, PAWC is proposing to increase the Residential flat rate charge from $110.00 to $120.00, and PAWC is proposing to maintain the current Residential flat rate charge for Rate zone 1e at $128.33. In SSS Rate Zone 1d, the current Residential monthly customer charge is $45.50, and PAWC is proposing to reduce that charge to $20.00. In SSS Rate Zone 1f, PAWC is proposing to reduce the Residential customer charge from $53.50 to $20.00. In SSS Rate zone 1g, PAWC is proposing to increase the current Residential monthly customer charge of $16.92 to $18.60.

In CSS Rate Zone 2, the Company is proposing to increase the current monthly customer charge of $20.00 to $25.00, and in CSS Rate Zone 2a the Company is proposing to maintain the current Residential monthly customer charge of $20.19. In CSS EMBA Rate Zone 2b, the Company is proposing to maintain the current Residential monthly customer charge of $35.00.

Q. DOES PAWC PRESENT A SSS CUSTOMER COST ANALYSIS TO JUSTIFY A MONTHLY RESIDENTIAL CUSTOMER CHARGE OF $20.00 IN RATE ZONES 1, 1A, 1B, 1D, AND 1F?

A. The Company presents a customer cost analysis which it claims only reflects direct costs in PAWC Exhibit No. 12-B, Attachment RS1j, page 2. That analysis indicates that a cost-based monthly customer charge for a 5/8-inch meter would be $45.89.

Q. DOES THIS ANALYSIS JUSTIFY A MONTHLY RESIDENTIAL CUSTOMER CHARGE OF $20.00 SSS FOR RATE ZONES 1, 1A, 1B, 1D, AND 1F AS PROPOSED BY PAWC?

A. No. As shown on Attachment RS1j, page 2, PAWC's direct customer charge calculation includes the costs associated with collecting and treating Infiltration and Inflow ("I/I"). As defined in the WEF Manual of Practice No. 27, Infiltration is the flow entering the sanitary sewer system resulting from high groundwater or precipitation that occurred days or weeks before the observed flow in the sanitary system, and inflow results from the rainfall that enters the sanitary collection system through a number of direct connections such as catch basins, roof drains, foundation drains, and manhole covers. As just explained, I/I is largely a function of precipitation. Therefore, I/I does not vary directly with the addition or subtraction of a customer. Only costs that vary directly with the addition or subtraction of a customer should be included in the calculation of customer charges.

Q. WHAT IS YOUR RECOMMENDATION CONCERNING MONTHLY SSS RESIDENTIAL CUSTOMER CHARGES?

A. For SSS wastewater Rate Zones 1, 1a, and 1b, the current monthly Residential customer charge is $15.00. Exclusive of I/I costs, the Company's calculation of customer costs would indicate a direct cost of $13.55 at the Company's proposed revenue requirement. Therefore, I recommend that the current monthly Residential customer charges in SSS

Rate Zones 1, 1a, and 1b be maintained, and the current SSS Residential customer service charges in Rate Zones 1d, 1f, and 1g be reduced to $15.00.

Q. WHAT IS YOUR RECOMMENDATION CONCERNING PAWC'S PROPOSAL TO INCREASE THE CSS RESIDENTIAL CUSTOMER CHARGE IN RATE ZONE 2 TO $25.00, AND MAINTAIN THE CURRENT RATE ZONE 2A CUSTOMER CHARGE AT $20.19 AND THE CURRENT RATE ZONE 2B CUSTOMER CHARGE AT $35.00?

A. In response to data request OCA 08-018, the Company presented a customer cost analysis for CSS service similar to the analysis it presented in PAWC Exhibit No. 12-13, Attachment RS1j, page 2, for SSS service. The response to OCA-08-018 is attached to my testimony as Schedule JDM-2. The Company CSS cost analysis indicates that a cost based monthly customer charge for a 5/8-inch meter would be $57.50. However, as with the Company's SSS customer cost analysis, the Company's CSS customer cost analysis improperly included I/I. Excluding I/I costs from the Company's CSS customer analysis indicates a customer cost of $4.59. Therefore, I recommend that the existing CSS monthly customer charges in Rate Zones 2, 2a, and 2b be maintained.

Q. WHAT IS YOUR RECOMMENDATION WITH RESPECT TO THE SSS AND CSS VOLUMETRIC USAGE CHARGES FOR RESIDENTIAL CUSTOMERS?

A. I recommend that PAWC's volumetric rate proposals be proportionately adjusted to recover the cost of service approved by the Commission for SSS and CSS Residential customers, less the revenues to be recovered through monthly customer charges, and that the rates also be adjusted to eliminate the deduct adjustment.

Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

A. Yes, it does. I reserve the right to update my testimony based on additional information received in the course of discovery.

BEFORE THE

PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	**)**	**Docket Nos. R-2025-3057983 (Water)**
v.	**)**	**R-2025-3058051 (Wastewater)**
Pennsylvania-American Water Company	**)**	
	)	

SCHEDULES ACCOMPANYING THE DIRECT TESTIMONY OF JEROME D. MIERZWA

ON BEHALF OF THE

PENNSYLVANIA OFFICE OF CONSUMER ADVOCATE

JANUARY 30, 2026

EXETER
ASSOCIATES, INC.
10480 Little Patuxent Parkway, Suite 300
Columbia, Maryland 21044

Schedule JDM-1

PENNSYLVANIA AMERICAN WATER COMPANY - WATER OPERATIONS

COMPARISON OF PRO FORMA COST OF SERVICE WITH REVENUES UNDER PRESENT AND PROPOSED RATES
FOR THE TWELVE MONTHS ENDED JUNE 30, 2027

Customer Classification	Pro Forma Cost of Service, as of June 30, 2027				Pro Forma Revenues Under Present Rates		Pro Forma Revenues Under Proposed Rates		Proposed Increase	
	Cost of Service	Allocation of Other COS*	Total Amount	Percent of Total	Amount	Percent of Total	Amount	Percent of Total	Amount	Percent Increase
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Residential	$ 675,657,224	$ 38,603,876	$ 714,261,100	65.6%	$ 620,483,188	66.2%	$ 725,425,433	66.6%	$ 104,942,245	16.9%
Commercial	241,688,665	$ 11,227,453	252,916,117	23.2%	224,318,174	23.9%	258,361,905	23.7%	34,043,731	15.2%
Industrial	51,079,540	$ 1,838,332	52,917,872	4.9%	42,905,050	4.6%	48,002,427	4.4%	5,097,377	11.9%
Industrial - Contract Sales	5,636,175		5,636,175	0.5%	3,686,620	0.4%	3,686,620	0.3%	-	0.0%
Public (Municipal)	27,383,917	$ 1,034,699	28,418,615	2.6%	24,548,573	2.6%	26,388,708	2.4%	1,840,135	7.5%
Other Water Utilities - Group A	1,266,060		1,266,060	0.1%	1,002,544	0.1%	1,162,821	0.1%	160,277	16.0%
Other Water Utilities - Group B	23,821		23,821	0.0%	59,124	0.0%	59,079	0.0%	(45)	-0.1%
Other Water Utilities - Contract Sales	7,914,764		7,914,764	0.7%	3,320,460	0.4%	3,320,460	0.3%	-	0.0%
Private Fire Protection	9,199,248	$ 305,822	9,505,070	0.9%	5,749,012	0.6%	8,153,435	0.7%	2,404,423	41.8%
Public Fire Protection	15,905,110		15,905,110	1.5%	11,062,317	1.2%	14,203,816	1.3%	3,141,499	28.4%
Total Sales of Water	$1,035,754,523	$ 53,010,182	$1,088,764,705	100.0%	$ 937,135,063	100.0%	$1,088,764,704	100.0%	$ 151,629,642	16.2%
Other Water Revenues	$ 11,438,031		11,438,031		10,649,702		11,438,031		788,328	7.4%
Total	$1,047,192,554	$ 53,010,182	$1,100,202,736		$ 947,784,765		$1,100,202,735		$ 152,417,970	16.1%

* Includes unrecovered Wastewater Cost of Service.

Pennsylvania-American Water Company
Docket Nos. R-2025-3057983 (Water)
R-2025-3058051 (Wastewater)
Office of Consumer Advocate Set 8

OCA 08-018

Responsible Witness: Greg Herbert, Project Manager, Gannett Fleming Valuation and Rate Consultants, LLC

Question: Reference Exhibit 12-B, Appendix A, RS1j.Attachment. Please provide a similar calculation for the combined sewer system cost of service in Exhibit 12-C.

Response:

Please see OCA 08-018_Attachment. The cost of service allocated to cost functions was not developed in Exhibit 12-C, which is how the cost-of-service study for CSS Operations (Exhibit 12-C) has historically been conducted. Accordingly, the following attachment for developing customer charges was completed on a customer class level.

PENNSYLVANIA AMERICAN WATER COMPANY
WASTEWATER COMBINED SEWER SYSTEM OPERATIONS

CALCULATION OF CUSTOMER COST PER MONTH

		Residential	Non-Residential	Industrial	Bulk
(1) Cost Related to Customer Facilities		471,660	192,520	15,558	13,080
(2) Retrun and Income Taxes - Services		752,750	307,254	24,830	20,875
(3) Cost Related to Customer Accounting		1,029,520	168,090	1,358	13,911
(4) Net Cost Related to I&I to be recovered in Customer Charge		25,986,526	12,487,767	1,166,764	3,107,359
(5) Total Cost to be recovered in Customer Charge		28,240,455	13,155,631	1,208,512	3,155,226
(6) Service Equivalents X 12		491,112	80,184	648	6,636
(7) Cost per Bill - I&I Related	Per Month	57.50	164.07	1,864.99	475.47

Schedule JDM-3

COMPARISON OF PAWC AND OCA ACT 11 WASTEWATER COST ASSIGNMENTS TO WATER CUSTOMER CLASSES

COMPANY

Classification	Company Cost of Service	Percent	Cost of Service Act 11	Company Act 11	Percent	Variance
(A)	(B)	(C)	(D)	(E)	(F)	(G)
Residential	$ 682,920,439	67.8%	$ 35,930,198	$ 38,603,876	72.8%	$ (2,673,678)
Commercial	245,729,206	24.4%	12,928,445	11,227,453	21.2%	1,700,992
Industrial	45,903,121	4.6%	2,415,081	1,838,332	3.5%	576,749
Public (Municipal)	25,209,837	2.5%	1,326,354	1,034,699	2.0%	291,655
Private Fire	7,794,783	0.8%	410,104	305,822	0.6%	104,282
TOTAL	$ 1,007,557,386	100.0%	$ 53,010,182	$ 53,010,182	100.0%	$ (0)

OCA

Classification	OCA Cost of Service	Percent	Cost of Service Act 11	Company Act 11	Percent	Variance
(A)	(B)	(C)	(D)	(E)	(F)	(G)
Residential	$ 675,657,224	67.2%	$ 35,638,215	$ 38,603,876	67.2%	$ (2,965,661)
Commercial	241,688,665	24.0%	12,748,110	11,227,453	24.0%	1,520,657
Industrial	51,079,540	5.1%	2,694,241	1,838,332	5.1%	855,909
Public (Municipal)	27,383,917	2.7%	1,444,392	1,034,699	2.7%	409,693
Private Fire	9,199,248	0.9%	485,224	305,822	0.9%	179,402
TOTAL	$ 1,005,008,594	100.0%	$ 53,010,182	$ 53,010,182	100.0%	$ (0)

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	:	
	:	
v.	:	Docket Nos. R-2025-3057983 (W)
	:	R-2025-3058051 (WW)
Pennsylvania-American Water Company	:	
	:	

VERIFICATION

I, Jerome D. Mierzwa, hereby state that the facts above set forth in my Direct Testimony, OCA Statement No. 3, 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 herein are made subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

DATED: January 30, 2026

Signature: */s/ Jerome D. Mierzwa*
Jerome D. Mierzwa

Address: Exeter Associates, Inc.
10480 Little Patuxent Parkway
Suite 300
Columbia, MD 21044-3575

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	:	Docket No. R-2025-3057983 (water)
v.	:	Docket No. R-2025-3058051 (wastewater)
Pennsylvania American Water Company	:	

Direct Testimony of Roger Colton

on behalf of the

Pennsylvania Office of Consumer Advocate

OCA Statement 4

Date Served: January 30, 2026

Table of Contents

Part 1.	The Affordability of PAWC's Bills for Current Service		8
	A.	PAWC Rates Over Time	15
	B.	The Unaffordability of PAWC Bills to Low-Income Customers	18
	C.	The Unaffordability of PAWC Bills to More Moderate Income Customers	25
Part 2.	The Importance of Considering the Affordability of PAWC Bills to Low- and Moderate-Income Customers		34
Part 3.	Enhancing PAWC's Identification of its Low-Income Customers and Expanding Enrollment into the Customer Assistance Program (CAP).		48
	A.	Identifying Low-Income Customers.	48
	B.	Expanding Enrollment of Low-Income Customers into Bill Discount Program (BDP)/Arrearage Forgiveness Program (AFP).	55
	C.	Assessing PAWC's Current Outreach	62
Part 4.	Improving the Operation of PAWC's AFP.		65
Part 5.	PAWC's Proposed "Renter Assistance Pilot Program" (RAPP)		81
Part 6.	PAWC's Proposed Rate Discount Levels		86
Part 7.	BDP/AFP Cost Recovery		91
	A.	Recovery of BDP/AFP Costs in Reconcilable Rider	92
	B.	The Need to Prevent Double Collection of AFP Costs	96
Part 8.	PAWC's Proposed "Deduct Adjustment"		105
Part 9.	Impact of Management Performance on Equity Return		111
RDC Exhibits			122

Q. PLEASE STATE YOUR NAME AND ADDRESS.

A. My name is Roger Colton. My address is 34 Warwick Road, Belmont, Massachusetts.

Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT POSITION?

A. I own the firm Fisher Sheehan & Colton, Public Finance and General Economics of Belmont, Massachusetts. In that capacity, I provide technical assistance to a variety of federal and state agencies, consumer organizations, and public utilities on rate and customer service issues involving water/sewer, natural gas and electric utilities.

Q. ON WHOSE BEHALF ARE YOU TESTIFYING IN THIS PROCEEDING?

A. I am testifying on behalf of the Office of Consumer Advocate.

Q. PLEASE DESCRIBE YOUR PROFESSIONAL BACKGROUND.

A. I work primarily on low-income utility issues. This involves regulatory work on rate and customer service issues, as well as research into low-income usage, payment patterns, and affordability programs. At present, I am working on various projects in the states of Massachusetts, New Jersey, Maryland, Pennsylvania, Kentucky, Ohio, Michigan, Illinois, Wisconsin, and Minnesota. My clients include state agencies (*e.g.*, Pennsylvania Office of Consumer Advocate, Maryland Office of People's Counsel, New Jersey Rate Counsel), federal agencies (*e.g.*, the U.S. Department of Health and Human Services), community-based organizations (*e.g.*, Cleveland Legal Aid Society, Legal Action of Chicago, Sierra Club), and public and private utilities (*e.g.*, Toledo Water, Xcel Energy, BC Hydro). Examples of my work include assisting the Connecticut Office of Consumers Counsel (OCC) in the annual generic review of the low-income affordability initiatives of that state's utilities by the Public Utilities Regulatory Authority. I am also assisting the

Massachusetts Attorney General's Office (AGO) in the generic investigation by the Department of Public Utilities (DPU) into the design of low-income affordability programs. In addition to state-specific and utility-specific work, I engage in national work throughout the United States. For example, I have recently completed a project with the Natural Resources Defense Council to develop a tool by which to assess the financial impact of differing types of low-income bill assistance. A brief description of my professional background is provided in OCA Exhibit RDC-1.

Q. PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND.

A. After receiving my undergraduate degree in 1975 (Iowa State University), I obtained further training in both law and economics. I received my law degree in 1981 (University of Florida). I received my Master's Degree (Regulatory Economics) from the MacGregor School in 1993.

Q. HAVE YOU EVER PUBLISHED ON PUBLIC UTILITY REGULATORY ISSUES?

A. Yes. I have published three books and more than 80 articles in scholarly and trade journals, primarily on low-income utility and housing issues. I have published an equal number of technical reports for various clients on energy, water, telecommunications and other associated low-income utility issues. A summary of my publications is included in OCA Exhibit RDC-1.

Q. HAVE YOU EVER TESTIFIED BEFORE THIS OR OTHER UTILITY COMMISSIONS?

A. Yes. I have testified before the Pennsylvania Public Utility Commission ("PUC" or "Commission") on numerous occasions regarding utility issues affecting low-income customers and customer service. My testimony has specifically included testimony in various proceedings involving low-income program design and operation, along with various rate design issues as they affect low-income customers. I have also testified in regulatory proceedings in 43 states (other than Pennsylvania) and various Canadian provinces on a wide range of utility issues. A list of the jurisdictions in which I have testified is listed in OCA Exhibit RDC-1.

In particular, I have testified in multiple cases involving American Water Company affiliates, including not only the Pennsylvania American Water Company (PAWC), but also the Maryland American Water Company, Illinois American Water Company, and Missouri American Water Company.

Q. PLEASE EXPLAIN THE PURPOSE OF YOUR DIRECT TESTIMONY.

A. The purpose of my Direct Testimony is to review the impact of PAWC rates on low-income customers. More specifically, I will examine the following topics:

- The overall affordability of PAWC's rates for current service;
- The importance of considering the affordability of PAWC bills to low- and moderate-income households;
- How to enhance the identification of low-income customers and the enrollment of those customers into the Company's Bill Discount Program (BDP) and Arrearage Forgiveness Program (AFP);

- How PAWC could and should improve the operation and effectiveness of its Arrearage Forgiveness Program (AFP);
- The reasonableness of PAWC's proposed Renter Assistance Pilot Program (RAPP);
- The reasonableness of the structure and level of PAWC's discounts offered through its Bill Discount Program (BDP);
- The reasonableness of proposed cost recovery of PAWC's BDP and AFP programs;
- The reasonableness of PAWC's proposed "Deduct Adjustment" mechanism; and
- The reasonableness of PAWC's request to have its Return on Equity set at a higher level to reflect Company claims of "superior management."

Q. PLEASE SUMMARIZE THE RECOMMENDATIONS YOU MAKE THROUGHOUT YOUR TESTIMONY WHICH FOLLOWS.

A. Based on the data and analysis I present throughout my testimony below, I recommend:

- That PAWC should adopt an internal process to identify its low-income customer base that is based on the policy that the Commission has adopted for Pennsylvania's energy utilities. I do not recommend this to be PAWC's policy because it is dictated by Commission regulation or statute. I instead recommend that it be done because it represents good business practice that benefits PAWC and its ratepayers.
- That PAWC initiate a screening process at the time a household first applies to receive service from the Company to determine whether the applicant: (a) should be classified as an Identified Low-Income customer; and (b) should be referred to the BDP application process. Indeed, this screening process presents an ideal opportunity for PAWC to determine if new applicants for service might qualify for the Company's low-income programs.
- That Commission regulations on related subjects should be read together to discern the underlying Commission policy decision. Even though PAWC does not impose residential cash security deposits, the Commission's regulations on deposit exemptions provide insight into what the Commission deems a

reasonable way to identify someone as "low-income." Accordingly, I recommend that PAWC actively seek, in its customer contacts, to ascertain from a customer whether that customer is participating in a program providing "state benefits based on household income eligibility requirements that are consistent with those of the [Company's bill discount program]."

- That PAWC adopt procedures to undertake two specific steps that are directed toward customers: (1) before they enter into deferred payment arrangements; or (2) before they are disconnected for nonpayment.

    1. Before PAWC enters into a DPA with a customer which the Company either: (1) knows to be an Identified Low-Income customer; or (2) has generated information through the DPA process documenting that the customer is in the income range at or below 150% FPL, it should be required to provide the customer a stand-alone Plain Language notice to that customer of the customer's right to apply for BDP and an explanation of the advantages of BDP's arrearage forgiveness benefits. PAWC should develop this Plain Language notice in collaboration with its Low-Income Advisory Committee. PAWC should enter into a payment arrangement with an Identified Low-Income customer only with the informed consent that the customer desires to enter into a payment arrangement rather than applying for BDP/AFP along with its arrearage forgiveness provisions. As the Commission has explained about obtaining the informed consent of a customer with respect to the return of low-income deposits, as part of obtaining this informed consent, PAWC should explain to the customer how enrolling in BDP/AFP, and participating in arrearage forgiveness, would impact the customer's monthly bill relative to entering into a payment arrangement.

    2. Prior to the disconnection of an Identified Low-Income customer, PAWC should adopt a procedure, developed in collaboration with its Low-Income Advisory Group under which it will offer the Identified Low-Income customer the opportunity to apply for the Company's BDP and AFP. If the customer expresses a desire to make such application, PAWC should postpone the disconnection for a reasonable period of time to allow the application process to be completed.

- I recommend three changes to these AMP policies in order to improve the effectiveness of how the program operates.

    1. The first recommendation I make to modify the AFP is for PAWC to allow customers to earn a monthly arrearage forgiveness credit for each

complete payment the customer makes. Under this recommendation, PAWC would adopt the same policy which the Commission has established for Pennsylvania's energy utilities.

2. The second modification I recommend for the AFP is to expand the monthly credit that PAWC provides for a timely payment or for a cured missed or late payment. This second modification recommends expanding the $25 credit. I recommend two alternative modifications: either (1) adopting a policy to achieve complete forgiveness in a pro rata fashion over a 24-month period; or (2) providing a $40 credit instead of a $25 credit. The $25 credit, however, is unreasonably low. An alternative way to accomplish this same result is to continue to provide a monthly arrearage credit. At the end of 24 months, PAWC would determine the percentage of total bills for current service paid by the AFP participant and would grant additional forgiveness of the pre-existing arrears equal to that percentage. If the customer had paid 100% of their bill for current service in that 24-month period, for example, they would receive forgiveness of 100% of their pre-existing arrears. If the customer had paid 80% of their bill for current service in that 24-month period, they would receive forgiveness of 80% of their pre-existing arrears.

3. PAWC needs to tie enrollment of low-income customers into its AFP more closely to enrollment in its BDP. A significant number of low-income customers are being enrolled into the BDP with pre-existing arrears on their account at the time of enrollment who are not also enrolled in the AFP upon their enrollment in the BDP.

- That further attention be devoted to developing operational details for the proposed Residential Assistance Pilot Program (RAPP) prior to the program being re-presented to the Commission in PAWC's next base rate proceeding.

- That the PAWC proposal to align its discounts for fixed and volumetric charges should be found to be reasonable and should be approved.

- That PAWC discounts: (1) should continue to be offered on a tiered basis. What this entails is offering different discount levels based on different income ranges; and (2) should continue to be offered as a four-tiered discount.

- That the specific bill discount levels proposed by PAWC in this proceeding should be found to be reasonable and should be approved.

- That PAWC's proposed CAP Rider should be denied. These costs should be recovered in base rates. Similarly, I recommend that the PAWC proposal to establish a reconciliation process for its BDP/AFP costs should be denied.

- That the Commission find that its directive that "*The utilities should bear the burden of proving that allowing recovery of their claim for arrearage forgiveness costs will not give them double-recovery of these costs*" (emphasis added) has not been met by PAWC in this proceeding. Accordingly, PAWC's request for cost recovery of its AFP credits in this proceeding be denied. This recommendation does not, however, extend to the recovery of PAWC's BDP credits. Nor does this recommendation preclude PAWC from filing for AFP cost recovery in its next base rate case upon an appropriate evidentiary showing.

- That the "deduct adjustment" proposal of PAWC be disapproved in this proceeding. Should PAWC wish to re-file its proposal in a future base rate proceeding, it should do so with an appropriate factual foundation. In filing a new proposal, PAWC should be required to estimate the impacts on remaining wastewater customers arising from the loss of revenue from customers who receive lower bills attributable to the re-filed proposal. This estimated impact should devote particular attention to the impact of the proposal on low-income customers who are less likely to have outdoor water use and, as a result, would be more likely to bear the brunt of the reallocated wastewater costs.

- That, notwithstanding the above recommendations, an alternative mechanism through which to address the legitimate concerns of customers about not paying for wastewater service on water consumption that does not flow through the wastewater system should be considered. As an alternative to addressing this issue through a rate structure proposal, PAWC should be directed to work with OCA to assess the cost, feasibility, and practicality of offering customers the opportunity to request the installation of separate meters limited to measuring the customer's outdoor water consumption.

- I recommend that the testimony of OCA witness Garrett instead be adopted with respect to the Company's request that its return on equity be set at a higher level to reflect superior management performance.

Part 1. The Affordability of PAWC Bills for Current Service.

Q. PLEASE EXPLAIN THE PURPOSE OF THIS SECTION OF YOUR TESTIMONY.

A. In this section of my testimony, I examine the affordability of PAWC bills for current service. I consider bill affordability from three different perspectives. First, I examine the history of rate increases for PAWC since 2020 and compare those increases to the changes in the income of low-income households during that same time period. Second, I examine bill affordability to low-income customers. Third, I examine bill affordability to more moderate-income customers.

Q. PLEASE EXPLAIN WHY PAYING PARTICULAR ATTENTION TO PROVIDING AN APPROPRIATE AMOUNT OF AFFORDABILITY ASSISTANCE IS IMPORTANT IN THIS RATE PROCEEDING.

A. Water service in today's world is an essential human need. Water is needed not only for drinking, but also for cooking and sewer needs. A 2022 White Paper by the U.S. Water Alliance states that "for every community in our country, the availability of safe drinking water and wastewater services is a precondition for public health and prosperity."[1] Water is vital to maintaining hygiene and health. The lack of water has particularly negative

[1] Hara, Willette and Simonson (2022). Making Water a Public Good: The Bigger Picture of Water Affordability, at 1, US Water Alliance.

impacts on children, the elderly, women, and persons suffering from an illness or chronic health concern. As one recent study noted:

> Dehydration can create threatening chemical imbalances for elderly people. Women who are menstruating need water to properly cleanse themselves, and mothers who are nursing need water to maintain their milk supply and their health. Some people with chronic illness need clean water in order to run and wash personal medical equipment.[2]

A recent study published in the American Journal of Preventative Medicine concluded that "Water shutoffs pose a real threat to human health because the lack of adequate sanitation can cause diseases to spread and allow people to become sick."[3] A 2010 report for the Water Research Foundation (the research arm of the American Water Works Association, AWWA) concluded that "A final consideration of importance to water utilities is the relationship of payment problems to health issues. . . Potential impacts relate to many of the same public health endpoints targeted by Safe Drinking Water Act standards such as effects on children and the unborn."[4]

The fundamental need for affordable water is recognized not only by laws relating to the protection of children, but also by laws relating to the habitability of homes. In 21 states, a parent's inability to provide running water in the home can be considered "child

---

[2] Jones and Moulton (2016). The Invisible Crisis: Water Unaffordability in the United States, at 11, Unitarian Universalist Service Committee, Cambridge: MA; see also, Bipartisan Policy Center (September 2017). Safeguarding Water Affordability, at 7.

[3] Zhang et al (2021). Water Shutoff Moratoria Lowered COVID-19 Infection and Death Across U.S. States, 2021 American Journal of Preventative Medicine.

[4] Cromwell, et al. (2010). Best Practices in Customer Payment Assistance Programs, at xxii, Water Research Foundation: Washington D.C. (hereafter "Best Practices").

neglect."[5] The lack of running water and sanitation is generally considered by public health inspectors to make a home uninhabitable.[6]

Q. IS THERE A COST INCURRED BY THE COMMUNITY DUE TO PAWC'S FAILURE TO ADEQUATELY ADDRESS THE NEED FOR BILL DISCOUNTS TO LOW-INCOME CUSTOMERS?

A. Yes. In May 2022, four professors at the University of Pennsylvania's Perelman School of Medicine published their research on *The Costs of Water Insecurity in Philadelphia* (hereinafter "Costs of Water Insecurity").[7] These four Philadelphia medical professors reported that the costs of water insecurity did not end with the cost to the affected customer. Rather, the Perelman School of Medicine researchers reported costs such as:

> **Housing costs:** Housing loss because the house is uninhabitable without water, or a lien may be placed on an occupant for unpaid debt. This can lead to high penalties and interest, with some households facing tax foreclosure or renters evicted for not paying utility bills (if billed separately by the landlord).
>
> **Community Costs:**
>
> - Vacant homes that are abandoned following a water shut off.
> - Increases in homelessness.
> - Costs to health systems and payers for increases in hospitalization, ambulatory, and ER visits and prescription drugs driven by rises in infectious and chronic diseases (though some of these costs are borne

[5] Id., at 34.

[6] Id., at 32 – 33.

[7] Laura A. Gibson, PhD , Eliza Kinsey, PhD, Christina A. Roberto, PhD, & Louise Russell, PhD (May 2022). *The Costs of Water Insecurity in Philadelphia*, Perelman School of Medicine, University of Pennsylvania. I have appended this study to my testimony as Exhibit OCA-Colton-2.

by insurers, by state and federal governments, and, as noted above, by individuals).

- Tens of thousands of pro-bono hours for legal and community services.

City Costs:

- Costs of shut offs and reconnections, including staff time, travel, and materials.
- Children placed in foster care following a neglect finding for not having a utility service.
- Homelessness (as a result of eviction, foreclosure, not being able to stay in a water-less home).
- Public safety (including illegal, sometimes unsafe water reconnections).
- Macroeconomic impacts of lost productivity.

Q. WHAT DO YOU CONCLUDE?

A. Water cannot be viewed as just another commodity, with access denied when customers find the cost to be unaffordable. PAWC should acknowledge this "connection between affordability and public health as another compelling reason to go beyond normal commercial collections practices and help meet higher community goals in this area of service."[8] PAWC "must remain mindful that public health is their core business and there is as much health impact at stake in the manner in which they obtain revenue from low-income households as there is in treating the water to high standards."[9]

[8] Best Practices, supra, at xxii.

[9] Best Practices, supra, at 29.

Q. DO YOU USE PAWC'S CONCEPT OF "BASIC WATER SERVICE" IN YOUR ASSESSMENT OF AFFORDABILITY?

A. No. The Company's affordability analysis is based on what it refers to as "Basic Water Service." This notion of "Basic Water Service" is used in the "Community Affordability Analysis" presented by Company witness Ather.[10] Ms. Ather defines Basic Water Service to be "water that is used for indoor domestic use and is expected to be relatively constant from month to month (e.g., water needed for drinking, cooking, cleaning, and sanitation)."[11] PAWC went on to define Basic Water Service as "service that is necessary and reasonable to meet basic household needs for drinking, cooking, sanitation, general health service."[12]

While offering this broad definition of "Basic Water Service," PAWC makes no effort to identify what water is needed for drinking, cooking, sanitation, and general health service. For example, the definition of basic service is not built from the ground up by identifying end uses and the water consumption associated with those end uses. By not identifying any particular end uses, PAWC does not attempt to base its determination of what represents what level of service is "necessary and reasonable to meet" particular end household needs. PAWC does not use a process to identify end uses and the water consumption associated with those end uses.

[10] PAWC St. 9, at Exhibit DFA-1, Exhibit DFA-2.

[11] Id., at 17.

[12] PAWC St. 9, at page 12.

Q. IS THERE A FALLACY IN THE COMPANY'S DEFINITION OF "BASIC WATER SERVICE"?

A. Yes. PAWC defines "basic water service" to be 40 gallons per household member per day. That definition of basic water service is *assumed* to be 40 gallons per household member per day.[13] While that assumption varies based on the size of a household, it does *not* vary based on any other characteristics of a household. It ignores differences based on factors such as the age or number of children in the household, or the age or number of adults in the household. It considers no individual circumstances of the household.

Q. HOW DOES PAWC'S ASSUMED USAGE OF 40 GALLONS PER HOUSEHOLD MEMBER PER DAY COMPARE TO GENERALLY-ACCEPTED USAGE ESTIMATES?

A. Ms. Ather's assumed consumption of 40 gallons per household member per day is significantly lower than the daily water consumption generally reported on a per-person basis. What is perhaps considered to be the seminal study on residential water consumption is the 2016 Water Research Foundation's (WRF) report "Residential End Uses of Water, Version 2." That WRF report found that "per capita water use has decreased 15 percent, from 69.3 gpcd[14] to 58.6 gpcd. This does *not* include the outdoor water usage which PAWC references as "seasonal usage" that would exceed his "basic water service." The WRF research found water consumption by end use as follows:

[13] PAWC St. 9, at 18.

[14] "GPCD" is "gallons per capita per day."

Average Daily Indoor Per Capita Water Use by End Use[15]	
Toilet	14.2
Clothes washer	9.6
Shower	11.1
Faucet	11.1
Leak	7.9
Other	2.5
Bath	1.5
Dishwasher	0.7
Total	58.6

Remember that PAWC has made no effort to build its "Basic Water Service" up by identifying individual end uses. If it had, the Company would have discovered that its assumption of 40 gallons of water use per person per day would have allowed a person to use the toilet (14.2 gppd), take a shower (11.1 gppd), and use a home's faucets (11.1 gppd), but would not allow that person to wash their clothes (9.6 gppd). Even if one were to exclude "leaks" from the discussion (7.9 gppd), the WRF research found a usage of 50.7 gppd.

The WRF estimated consumption of 50 gppd is closely aligned with other authoritative estimates of average consumption per person per day. The U.S. Environmental Protection Agency (EPA), for example, reports that "each American uses an average of 82 gallons of water a day at home," but reports, further, that "more than 30%" of that usage is for "outdoor" consumption.[16] If we set EPA's "more than 30%" *equal* to 30%,

[15] Water Research Foundation (2016). Residential End Uses of Water, Version 2, Executive Report, at 8.

[16] U.S. EPA, Water Sense, Statistics and Facts, at 1, 3.

the indoor water use would be 57.4 gppd consumption. If we set EPA's "more than 30%" equal to 35%, the indoor water use would be 53 ggpd.

Q. WHAT DO YOU CONCLUDE?

A. Ms. Ather's testimony[17] regarding "affordability" is not used to support any particular decision presented by PAWC for Commission deliberation in this proceeding. In particular, Ms. Ather's affordability analysis is not used to support the Company's proposed low-income discounts. Nonetheless, the Commission should be aware of the fallacies inherent in her affordability analysis. In considering issues such as the return on equity, rate design, or other similar issues, the Commission should not make a decision based on PAWC's assertion that total bills being charged to customers might be high because they exceed the Company's unsupported and undefined assertion of what is "necessary and reasonable to meet basic household needs for drinking, cooking, sanitation, general health service."

A. PAWC Rates Over Time.

Q. PLEASE DESCRIBE THE PURPOSE OF THIS SECTION OF YOUR TESTIMONY.

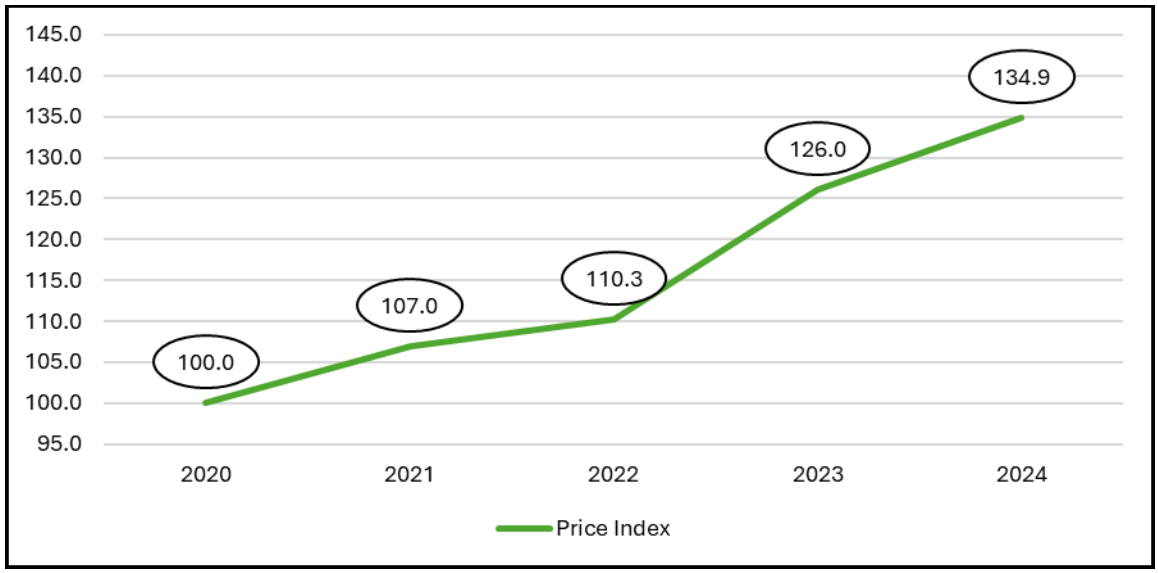
A. In this section of my testimony, I examine the impact of the changes in PAWC's rates from 2020 through 2024.[18] I determined the average residential revenue by dividing the total residential revenue reported by PAWC in its annual report to the Pennsylvania

[17] PAWC St. 9, Direct Testimony of Debra Ather.

[18] 2024 is the most recent year for which data has been filed with the Commission.

PUC[19] by the total residential sales. I assign 2020 a base case value of 100. The changes from that base case value represent the rate by which the values increased or decreased. Creating an index such as this is a common way to measure changes in prices. It is, for example, the way that the U.S. Bureau of Labor Statistics presents the rate of inflation.

Figure 1. Changes in PAWC Rate Index (2020 – 2024)



The data in the Figure above shows that increases in PAWC rates have been substantial since 2020. Since 2020, there has been a sharp spike in PAWC prices. PAWC rates increased nearly 35% from 2020 through 2024. This rate increase request by PAWC is

[19] PAWC annal reports are available at https://www.puc.pa.gov/search/document-search/?DocketNumber=&ReferenceDocketNumber=&eFilingConfirmationNumber=&CaseType=&PublicMeetingFromDate=&PublicMeetingToDate=&DocumentReceivedFromDate=&DocumentReceivedToDate=&DocumentServedFromDate=&DocumentServedToDate=&DocumentTitle=&DocumentType=11717119&UtilityCode=&UtilityName=pennsylvania+american+water&UtilityType=&ufprt=05BFD3913DB83A958D3B00EDDAB2C94C8A095802294BD70210B0549CB742D2C70495A30E9BD7E78483F1ADA7D5EA160A8F5CD71658466D08CFD41AB6F1B98EB4C099666B7EA52433E7A4C499A83C2758DDEB9264A5C394B3BA3C1A66E29D320F9D287E404195F9703176437DD85C0DF2E0D19B45578D9B49747D0E3AB292DABA21F747D98BB692F588F3BC9C60383F31A76F1C1912E6707E72EF2C2B0F4ADC86F79F7A2B77A6BC959F9D67B3BC67F05DFF63342A6F4BFD69D7A26B73CA3022A4#search-results

the fourth general rate case which PAWC has filed since 2020.[20] Any increase approved as part of this proceeding will increase prices even further. The constant flow of rate increases being sought by PAWC is difficult not only for ratepayers generally, but for the delivery of affordability assistance to low-income ratepayers in particular.

Q. HAVE YOU EXAMINED HOW THE INCREASE IN PAWC RATES COMPARES TO INCREASES IN THE INCOMES OF LOW-INCOME HOUSEHOLDS OVER TIME?

A. Yes. I compare the increase in PAWC bills from 2020 through 2023 as established above to the changes in the average First Quintile Income[21] for selected communities served throughout the PAWC service territory.[22] As can be seen in Figure 2 below, in all but three of the eighteen PAWC communities examined, the growth in PAWC rates from 2020 through 2023 exceeded the growth in income for the lowest quintile of income. While PAWC rates increased by 26% over that time frame, incomes in the PAWC service territory were simply not keeping up. At the same time PAWC rates were dramatically increasing, Q1 incomes in four PAWC communities actually *declined* (i.e.,

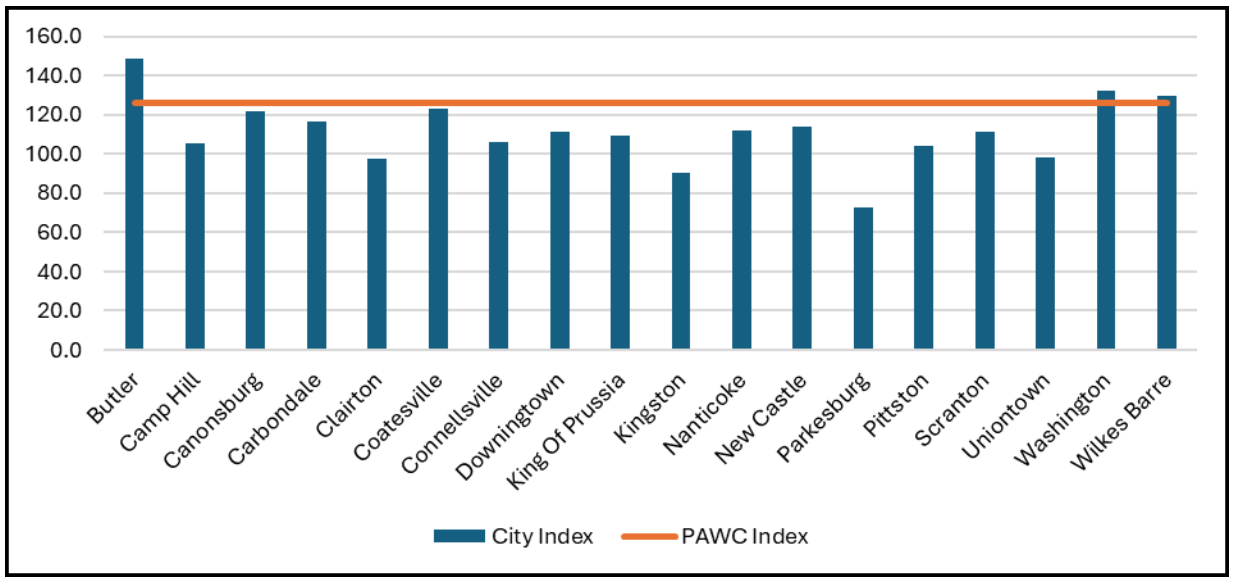
[20] See, PUC v. PAWC, Docket No. R-2020-30199369; PUC v. PAWC, Docket Np. R-2022-30311672; PUC v. PAWC, Docket No. R-2023-30343189.

[21] The Census Bureau rank orders all households by income from lowest to highest. It then divides that ranking into five equal part, each part of which is called a "quintile." The one-fifth of households with the lowest income is the "First Quintile" (Q1), sometimes known as the "lowest quintile." The one-fifth of households with the highest income is the "Fifth Quintile" (Q5).

[22] I use all cities identified as being served by PAWC, with the exception of the parts of Pittsburgh served by PAWC, along with six of the larger boroughs served by PAWC. The comparison is through 2023 since incomes by community by income quintile have not yet been published for 2024 by the Census Bureau.

income index of less than 100). In addition, four more communities had their Q1 incomes increase by less than 10% over the four year period).

Figure 2. 2023 PAWC Price Index Compared to Q1 Income Index for PAWC Counties (2020 base = 100)



B. The Unaffordability of PAWC Bills to Low-Income Customers.

Q. HAVE YOU BEEN ABLE TO ASSESS THE DECLINE IN AFFORDABILITY IN DOLLAR TERMS FOR THE LOWEST INCOME PAWC CUSTOMERS?

A. Yes. For each annual bill, by year, I determined what income would be required for that bill to represent an affordable burden (2%).[23] I compare the income required for bills to

[23] I use 2% as being the best fit with the PUC's determination of affordable burdens for natural gas and electric bills. The affordable burdens identified by the PUC for electricity and natural gas were set forth in the Commission's revised CAP Policy Statement. 2019 Amendments to Policy Statement on Customer Assistance Program, 52 Pa. Code § 69.261–69.267, Docket M-2019-3012599, Final Policy Statement and Order, at page 32 (September 19, 20-19). I did not want to set a water affordability burden so high as to make *total* utility burdens unaffordable.

Utility Service Type	0-50% FPIG	51-100% FPIG	101-150% FPIG
Electric Non-Heat	2%	4%	4%
Gas Heat	4%	6%	6%
Electric Heat	6%	10%	10%

be affordable to the actual Q1 income to determine to what extent, if any, there is a deficit (*i.e.*, Q1 incomes are insufficiently high for bills to be affordable).[24] I use the income for the counties associated with the cities I previously considered.

The Table shows that, for PAWC bills, the income deficit (*i.e.*, the shortfall between the actual Q1 income and the income needed for a bill to be affordable at 2% of income) substantially increased from 2019 through 2025 in the PAWC counties studied. The smallest amount by which the deficit increased was roughly $4,600 (Chester County), where the income deficit increased from $8,114 (2019) to $12,751 (2024). The typical increase in the income deficit fell in a range of roughly $8,000 to $10,000, with the increase in the Lackawanna County deficit being somewhat higher ($11,951 from 2019 to 2024).

[24] Because of data collection limitations associated with the Coronavirus health pandemic, the Census Bureau did not report 1-year data in 2020. For 2020 only, therefore, I use the 5-year average data. In all other years, I use the Census Bureau's 1-year data.

Table 1. Income Deficit Relative to Income Needed to Achieve Affordable PAWC Bill By PAWC County

	2019	2020[25]	2021	2022	2023	2024
Annual Q1 income (Allegheny)	$14,103	$13,551	$13,255	$14,491	$15,147	$15,854
Annual Q1 income (Butler)	$15,275	$17,196	$17,088	$18,607	$18,434	$19,245
Annual Q1 income (Chester)	$24,736	$25,089	$26,478	$29,166	$28,936	$31,699
Annual Q1 income (Fayette)	$11,366	$11,102	$10,796	$9,663	$11,250	$13,517
Annual Q1 income (Lackawanna)	$12,837	$12,827	$13,098	$12,416	$10,043	$12,486
Annual Q1 income (Lawrence)	$12,297	$12,584	$14,460	$14,358	$13,498	$14,712
Annual Q1 income (Luzerne)	$12,290	$12,358	$12,953	$12,927	$11,229	$15,238
Annual Q1 income (Washington)	$14,607	$16,256	$15,722	$13,476	$19,102	$17,601
PAWC Bill	$657	$713	$730	$741	$834	$889
Income at which bill affordable (2%)	$32,850	$35,650	$36,500	$37,050	$41,700	$44,450
Q1 income deficit (Allegheny)	$18,747	$22,099	$23,245	$22,559	$26,553	$28,596
Q1 income deficit (Butler)	$17,575	$18,454	$19,412	$18,443	$23,266	$25,205
Q1 income deficit (Chester)	$8,114	$10,561	$10,022	$7,884	$12,764	$12,751
Q1 income deficit (Fayette)	$21,484	$24,548	$25,704	$27,387	$30,450	$30,933
Q1 income deficit (Lackawanna)	$20,013	$22,823	$23,402	$24,634	$31,657	$31,964
Q1 income deficit (Lawrence)	$20,553	$23,066	$22,040	$22,692	$28,202	$29,738
Q1 income deficit (Luzerne)	$20,560	$23,292	$23,547	$24,123	$30,471	$29,212
Q1 income deficit (Washington)	$18,243	$19,394	$20,778	$23,574	$22,598	$26,849

Given that 2025 is not yet complete as of the time I write this testimony, 2025 annual bills are not yet available. It is important to remember, however, that PAWC bills will again increase even more as a result of the rates proposed in this proceeding.

Q. HAVE YOU UNDERTAKEN ANY FURTHER EVALUATION OF THE AFFORDABILITY OF PAWC'S BILLS TO LOW-INCOME CUSTOMERS?

A. Yes. I have calculated bill burdens for PAWC customers both at the rates which currently exist and at those rates which have been proposed in this proceeding.[26] I disaggregate incomes into various ranges of income up to $60,000. I use $60,000 since that is the highest income level at which PAWC bills, on average, appear to fall above an affordable burden of 2% at proposed rates. The income ranges I use are those which are reported by the Census Bureau in its American Community Survey.[27] The data is set forth in Table 3 below. As that Table shows, PAWC bills at the rates proposed in this proceeding are unaffordable for customers with income between $50,000 and $60,000 (burden of 2.3% at the $55,000 mid-point of that income range). Even PAWC bills at existing rates, however, are at the limits of affordability (1.9%) at incomes between $50,000 and $60,000. The bill increase at the rates proposed in this proceeding push PAWC burdens above the 2% demarcation of affordability.

[25] Due to data collection problems associated with the COVID health pandemic, the Census did not publish one-year data for 2020. In this Table, for 2020 only, five-year average data is used.

[26] I use Zone 1 rates in this calculation. When PAWC was asked to provide the bills for Bill Discount Program participants at various usage levels, the Company used Zone 1 rates. (OCA-12-01).

[27] ACS, Table B19001. The next highest income range reported by the Census is $60,000 to $74,999.

Table 2. PAWC Bill Burdens by Income at Existing and Proposed Rates
(shading simply to improve readability)

	Income Mid-Point	Annual Bill at Existing Rates	Annual Bill at Proposed Rates
Bills at existing and proposed rates	---	$1,069[28]	$1,277[29]
Income Range			
Less than $10,000	$5,000	21.4%	25.5%
$10,000 - $14,999	$12,500	8.6%	10.2%
$15,000 - $19,999	$17,500	6.1%	7.3%
$20,000- $24,999	$22,500	4.8%	5.7%
$25,000 - $29,999	$27,500	3.9%	4.6%
$30,000 - $34,999	$32,500	3.3%	3.9%
$35,000 - $39,999	$37,500	2.9%	3.4%
$40,000 - $44,999	$42,500	2.5%	3.0%
$45,000 - $49,999	$47,500	2.3%	2.7%
$50,000 - $59,999	$55,000	1.9%	2.3%

It is not simply the income below which bills become unaffordable that is significant, however. When I examine the lower income levels, the depth of unaffordability (*i.e.*, the extent to which bills exceed an affordable burden) becomes particularly substantial. PAWC bills, for example, impose twice the affordable burden (3.9% at proposed rates) even at an annual income of $30,000 to $35,000, while bills range from more than 3.5

[28] OCA-IV-24 (median monthly bill for identified low-income, for most recent 12 months, no bill discount customers) (existing rates).

[29] OCA-IV-24 (median monthly bill for identified low-income, for most recent 12 months, no bill discount customers) (proposed rates).

times (7.3% at income of $15,000 to $20,000 at proposed rates) to nearly thirteen times (25.5%) the affordable burden when income falls to less than $10,000.

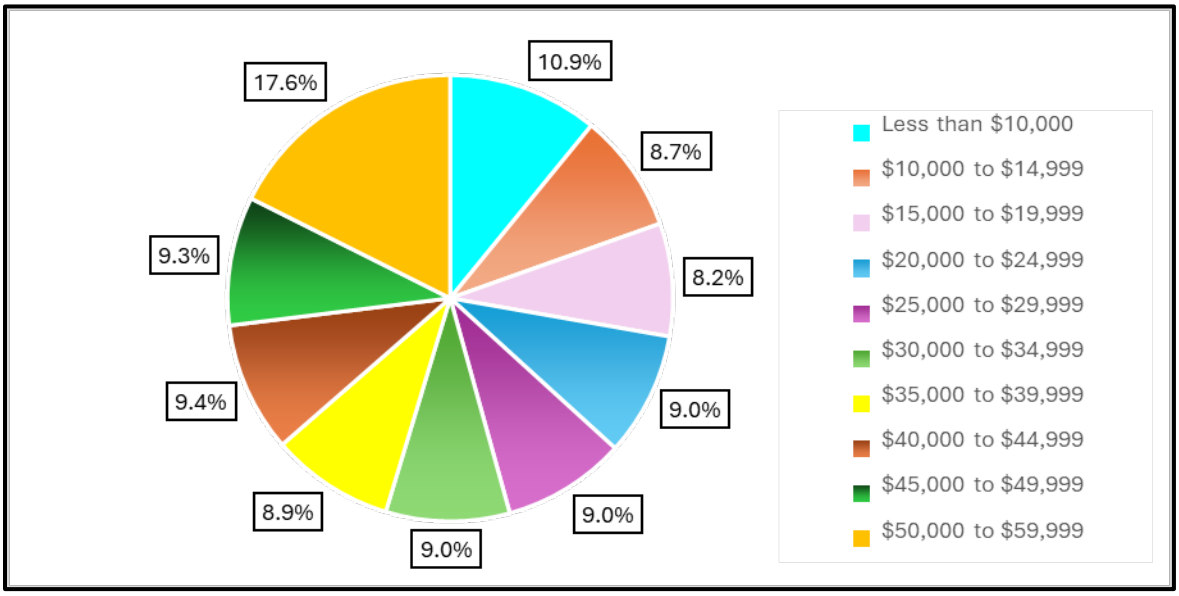
Q. WHY ARE THESE BURDENS AT DIFFERENT INCOME RANGES IMPORTANT FOR PURPOSES OF ASSESSING AFFORDABILITY?

A. Frequently, when utilities assess affordability, they purport to assess affordability at or below a prescribed income level. Their actual analysis, however, only considers the income *at* the identified income level, while seeming to forget those households who fall within the "or below" part of the income. In contrast, my discussion considers households at *or below* $60,000. In the zip codes identified by PAWC as comprising its service territory, 38.2% of all households have income at or below $60,000.

Figure 3 below, however, documents the extent to which households with income at or below $60,000 fall *below* that maximum income level. The Figure shows, for example, that nearly one-of-five (10.9% + 8.7% = 19.6%) of all households with income at or below $60,000 in fact have income below $15,000. More than one-quarter (10.9% + 8.7% + 8.2% = 27.8%) of households with income less than $60,000 in PAWC zip codes

in fact have income below $20,000. The burdens imposed by PAWC bills at these income levels are significantly above an affordable burden.

Figure 3. Percent of Households with Annual Income <$60,000 by Income (PAWC Counties)



Q. WHAT DO YOU CONCLUDE?

A. I find that PAWC has significant bill affordability problems facing its low-income customers. Not only should this unaffordability be considered in assessing issues such as an appropriate return on equity and rate design, the specific remedies which I recommend below should be adopted to address the issue both from the perspective of delivering reasonably adequate service to the low-income customers and from the perspective of delivering least-cost service to all customers of the utility.

I further conclude that, as shown in Table 1 above, PAWC prices have been increasing at rates faster than the incomes of low-income customers in the PAWC service territory. To the extent that there is an affordability problem facing PAWC, which I find to be true, that problem has been growing more and more substantial over time given PAWC's

frequent rate increase requests. PAWC bills for low-income customers are routinely, and substantially, unaffordable, and will become even more so if the rates proposed in this proceeding are approved.

C. The Unaffordability of PAWC Bills to More Moderate Income Customers.

Q. PLEASE EXPLAIN THE PURPOSE OF THIS SECTION OF YOUR TESTIMONY.

A. In this section of my testimony, I examine the ability-to-pay of more moderate income households using the ALICE Threshold. "ALICE" is the acronym used to describe Asset-Limited, Income-Constrained, Employed ("ALICE") households with income above the Federal Poverty Level but below the cost of basics included in the ALICE Household Survival Budget described below.

Q. PLEASE DESCRIBE THE TERMINOLOGY YOU USE AS TO THE ALICE DATA.

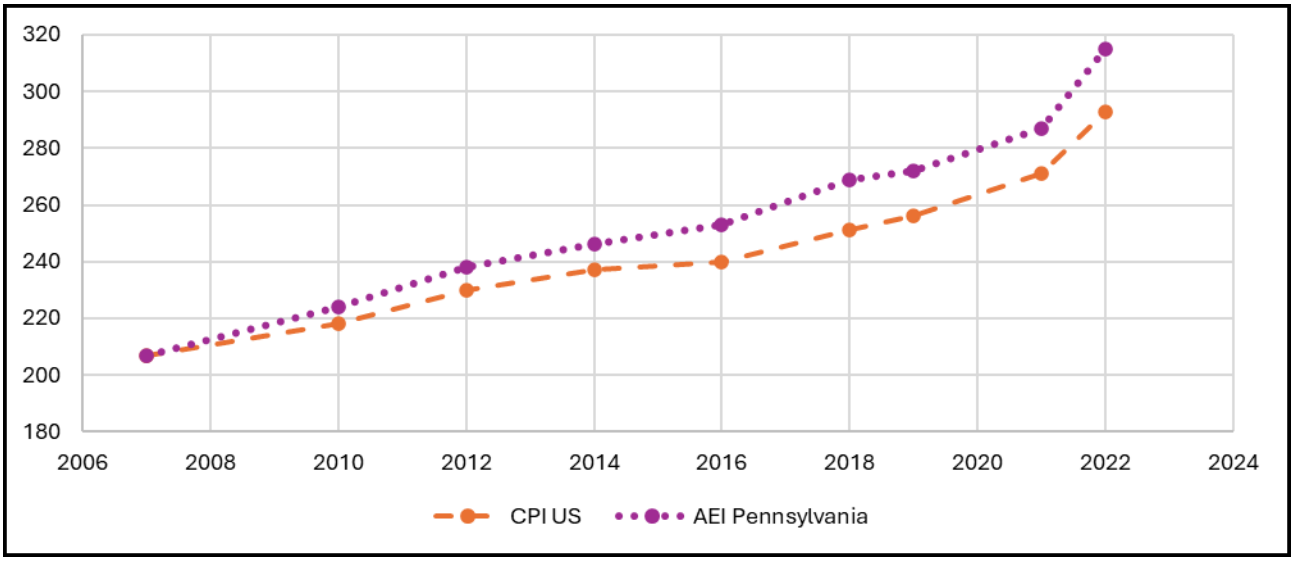
A. There are three basic terms that are used in presenting and assessing ALICE data for a particular geographic area:

- **The ALICE Survival Budget**. The ALICE Budget tracks the cost of household necessities that matter most to ALICE households: housing, child care, food, transportation, health care, and basic technology. According to United for ALICE, the United Way research arm which addresses the economic issues facing ALICE households, the ALICE Budget differs from the budget used by the U.S. Bureau of Labor Statistics (BLS) to calculate the Consumer Price Index (the traditional measure of inflation). The budget which BLS uses tracks over 200 goods and services. These include items that financially insecure households cannot afford on a regular basis (*e.g.*, full-service meals at restaurants, wine, major appliances, flights, and jewelry). In contrast, the ALICE Budget is limited to household essentials.[30]

[30] ALICE Essentials Index, available at https://www.unitedforalice.org/essentials-index

- **The ALICE Essentials Index**: The ALICE Essentials Index is the rate of price increase for the limited market basket of household essentials: housing, child care, food, transportation, health care, and a smartphone plan. According to the 2025 ALICE report for Pennsylvania, the ALICE Essentials Index has consistently outpaced the broader Consumer Price Index (CPI) nationwide.[31] Nationally, the ALICE Essentials Index has outpaced the broader CPI nationwide since 2007. Between 2021 and 2023, the ALICE Essentials Index increased at an annual rate of 7.3% compared to 6.1% for CPI. The ALICE report for Pennsylvania reported that "in Pennsylvania, the ALICE Essentials Index also tended to increase faster than CPI. . ."

Figure 4. Growth in Pennsylvania ALICE Essentials Index vs. Growth in U.S. Consumer Price Index



The Pennsylvania ALICE Report found that "[w]hile wages have risen substantially in recent years, so have costs. And even in occupations where wages are growing faster than costs, wages started from such a low level that many workers are still not able to cover household essentials."[32]

- **The ALICE Wage:** The ALICE Wage is expressed on a monthly, annual and hourly basis. The Alice Wage represents the dollar amount needed to be earned that would exactly equal the household's ALICE Survival Budget. A wage lower than the ALICE Wage means the wage-earner can *not* meet the

[31] The State of ALICE in Pennsylvania: Costs Over Time: The ALICE Essential Index, https://www.unitedforalice.org/costs-over-time/pennsylvania

[32] Id.

ALICE Survival Budget. A wage higher than the ALICE Wage means the wage-earner is meeting the ALICE Survival Budget with some additional earning capacity left over. The ALICE Wage differs by household size and composition, as well as by the number of wage earners in the household.

Q. HAVE YOU EXAMINED THE WAGES NEEDED TO MEET THE ALICE SURVIVAL BUDGET IN THE COUNTIES SERVED BY PAWC?

A. As I described above, the dollars needed for a household to meet the ALICE Survival Budget is known as the ALICE Wage. I have reviewed the ALICE Wage for a selection of PAWC counties representing a diversity in geographic locations and urban/rural status. The ALICE Wage (*i.e.*, the income needed by household composition needed to meet the ALICE Survival Budget) for the PAWC counties I examine is set forth in the Table below.

Table 3 demonstrates how the cost-of-living varies across Pennsylvania. For example:

- Both Chester and Northampton counties have noticeably higher ALICE wages than do the other PAWC counties, followed closely by Allegheny and Lancaster.
- In contrast, Clinton, Northumberland, Schuylkill, and Union counties have noticeably lower ALICE wages than do other counties.
- Two counties (Clinton, Northumberland) have ALICE wages (for a one-adult, one child family) of less than $40,000, while two other counties (Chester, Northampton) have ALICE wages of more than $45,000.

It is evident from the data presented in the Table that the cost-of-living for moderate income households, and thus the ability of these PAWC customers to absorb the rate increase sought in this proceeding, varies widely across the PAWC service territory.

Table 3. Annual Wage Needed to Meet ALICE Budget
(Selected PAWC Counties)

	Single Adult	One Adult One Child	One Adult One Childcare	Two Adults	Two Adults Two Children	Two Adults Two Childcare
Allegheny	$33,108	$47,496	$55,596	$46,824	$76,572	$94,164
Butler	$32,088	$45,108	$51,540	$45,432	$72,336	$86,004
Chester	$37,608	$55,908	$66,156	$53,856	$89,004	$113,016
Clinton	$26,940	$39,384	$44,364	$40,572	$65,556	$76,116
Columbia	$28,752	$43,236	$49,812	$43,524	$69,804	$83,628
Dauphin	$31,872	$46,704	$53,520	$46,752	$75,420	$91,176
Fayette	$31,428	$44,364	$51,588	$44,220	$71,076	$86,580
Lackawanna	$29,412	$43,656	$49,704	$44,232	$70,752	$83,520
Lancaster	$33,060	$47,844	$53,964	$48,336	$76,848	$90,324
Lawrence	$26,676	$40,224	$46,668	$40,608	$67,584	$81,288
Luzerne	$29,412	$43,848	$50,400	$44,124	$71,148	$84,924
Northampton	$34,776	$50,340	$57,204	$50,352	$80,940	$97,824
Northumberland	$26,520	$38,532	$43,368	$39,792	$63,912	$73,932
Schuylkill	$27,996	$40,188	$46,728	$40,500	$67,128	$80,844
Union	$28,512	$42,300	$47,040	$43,620	$67,284	$77,052
Washington	$32,232	$45,744	$52,800	$45,684	$73,548	$88,776
Wayne	$29,220	$43,512	$49,560	$44,076	$70,068	$82,836

Q. HOW DO THESE ALICE WAGES COMPARE TO WAGES THAT ARE COMMONLY AVAILABLE TO PAWC CUSTOMERS?

A. ALICE research reports that "a key contributor to the number of ALICE households in Pennsylvania is the fundamental mismatch between the cost of living and what jobs pay."[33] Common occupations throughout Pennsylvania provide insufficient wages to

[33] The State of ALICE in Pennsylvania, ALICE in the Labor Force, https://www.unitedforalice.org/ALICE-in-the-labor-force/pennsylvania

allow a household to cover the ALICE Survival Budget. Included among those "common occupations" are, for example, retail salespersons, cashiers, customer service representatives, janitors and cleaners, waiters and waitresses, fast food and counter workers, and cooks (restaurants), amongst others.

Data on common occupations throughout Pennsylvania is set forth in the Table below. The median hourly wage for these occupations does not come close to covering the hourly wage needed to meet the ALICE Survival Budget. Indeed, of the 15 occupations listed, representing a total employment of more than 1.75 million workers, six had a median hourly wage (shaded in light grey) of less than $16.

Table 4. Selected Occupations, Employment, Wages, and Percentage Below ALICE Threshold (Pennsylvania, 2023)

Occupation	Total Employment	Median Hourly Wage	% Below ALICE Threshold
Fast Food And Counter Workers	139,950	$13.36	40%
Personal Care Aides	213,020	$13.94	44%
Waiters And Waitresses	81,500	$14.28	36%
Cashiers	126,400	$14.40	42%
Retail Salespersons	134,160	$14.51	29%
Cooks	87,580	$15.35	42%
Janitors And Building Cleaners	112,580	$16.93	43%
Stockers And Order Fillers	104,930	$17.16	34%
Nursing Assistants	65,220	$18.53	44%
Laborers And Freight, Stock, and Material Movers	150,470	$18.84	33%
Office Clerks, General	122,170	$19.62	23%
Orderlies And Psychiatric Aides	69,910	$19.65	36%
Customer Service Representatives	112,850	$20.00	24%
Secretaries And Administrative Assistants, Except Legal, Medical, And Executive	81,320	$20.20	20%
Driver/Sales Workers And Truck Drivers	148,580	$20.93	27%

Q. HAVE YOU EXAMINED ANY SUBSET OF ALICE HOUSEHOLDS IN PARTICULAR?

A. Yes. Table 5 below documents what hourly wage would be required to meet the ALICE Survival Budget for *senior* households based on data up to 2023. As with the households discussed above, Chester and Northampton counties also have the highest ALICE Wages for both a household with a single senior person, and a household with two seniors. Allegheny, Butler, Dauphin, Lancaster, and Washington counties are also more expensive for seniors.

Table 5. Annual Wage Needed to Meet ALICE Budget (seniors)
For Selected Counties (2023)

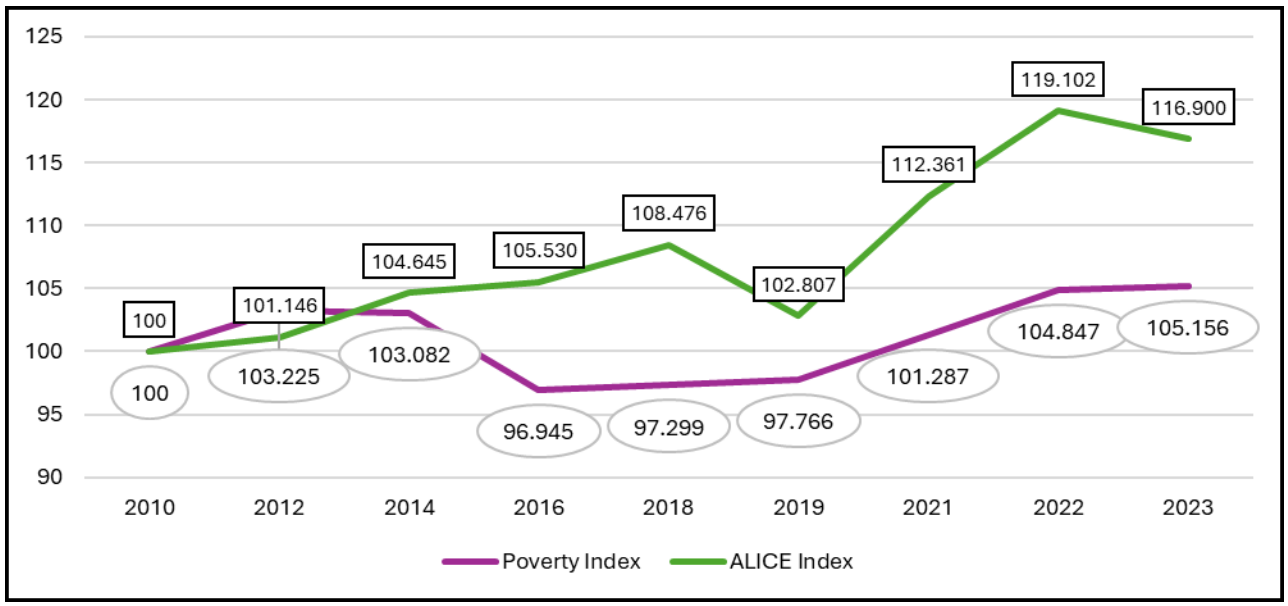
	Single Senior	Two Seniors
Allegheny	$37,776	$57,216
Butler	$36,024	$54,324
Chester	$41,832	$63,492
Clinton	$31,524	$50,772
Columbia	$33,240	$53,508
Dauphin	$36,756	$57,564
Fayette	$35,568	$53,520
Lackawanna	$33,564	$53,520
Lancaster	$36,996	$57,276
Lawrence	$31,068	$50,412
Luzerne	$33,732	$53,772
Northampton	$39,312	$60,564
Northumberland	$31,284	$50,304
Schuylkill	$32,580	$50,616
Union	$32,580	$52,740
Washington	$36,300	$54,840
Wayne	$33,468	$53,568

As can be seen in this data, in Pennsylvania counties served by PAWC, the ALICE Wage for single seniors is higher than it is for single adult households overall (comparing Table 3 to Table 5). Otherwise, the ALICE Wage for a two-person senior household is roughly comparable to a two-person household (one adult/one child), but higher than for a household with two adults (and no children). This cost-of-living leaves many, if not most, seniors in the PAWC service territory with inadequate income to meet their basic living expenses.

Q. DO YOU HAVE ANY FINAL OBSERVATIONS ABOUT THE ALICE DATA YOU HAVE REVIEWED?

A. While the number of persons in Pennsylvania with income falling below the FPL has remained relatively steady from 2010 through 2024, the number of persons with income falling below the ALICE Threshold has seen a steady increase. As Figure 5 below documents, the number of Pennsylvania residents with income below the ALICE Threshold has grown more than three times faster than the number of households with income below Poverty.[34]

Figure 5. Index of No. of Persons Falling Below the FPL and Below ALICE Threshold (2010 = 100)

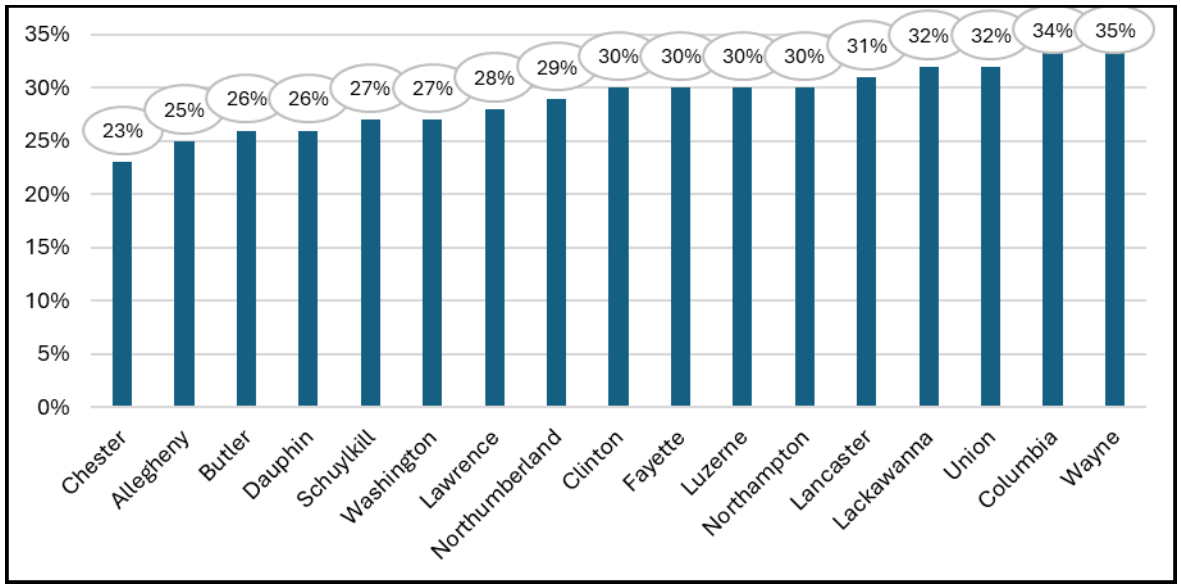


My final observation is simply that while the magnitude of the problem may differ from one part of the PAWC service territory to another, there is no county served by PAWC that escapes these identified hardships. Figure 6 below provides

[34] The State of ALICE in Pennsylvania: Trends in Financial Hardship, https://www.unitedforalice.org/trends-in-hardship/pennsylvania

2023 data on the percentage of households with incomes falling below the ALICE Threshold (but above the Federal Poverty Level) for the counties I have been reviewing. In only two counties examined does the percentage fall below 25%. In contrast, in five more counties, the percentage falls above 30%. In five counties, the percentage falls in a narrow band between 29% and 30%.

Figure 6. Pct Households Falling Below ALICE Threshold / Above FPL by County (2023)



The ALICE data presented above provides two important insights into the affordability of PAWC bills. First, the data demonstrates that there is a significant population living with incomes greater than the Federal Poverty Level, but less than that which is needed to meet basic living expenses. Second, the data demonstrates that the affordability of PAWC bills could well depend in substantial part on the cost-of-living in different parts of the PAWC service territory.

Part 2. The Importance of Considering the Affordability of PAWC Bills to Low- and Moderate-Income Customers.

Q. PLEASE EXPLAIN THE IMPORTANCE OF TAKING SUCH A DETAILED LOOK AT THE UNAFFORDABILITY OF PAWC BILLS TO PAWC LOW- AND MODERATE INCOME CUSTOMERS.

A. It is important to undertake a detailed examination of the affordability of PAWC water service to low- and moderate-income households in the PAWC service territory for several reasons. On the one hand, consideration of affordability is a critical task to undertake within the structure of a utility rate case. As bills become increasingly unaffordable, the payment difficulties of those customers who face unaffordability become increasingly substantial as well. I will demonstrate below how and where this conclusion has been documented time and again. One impact of the unaffordability is its impact on the operating costs (*e.g.*, collection costs, working capital, uncollectibles) that are then passed through to other ratepayers.

In addition, much of utility ratemaking involves a balancing of investor interests and customer interests. For example, establishing a Return on Equity (ROE) is fundamentally predicated on balancing customer and investor interests. It is necessary for the Commission to understand the customer interests in order to appropriately balance them against the competing investor interests. In deciding on the appropriate ROE and the reasonable mix of debt and equity securities, the obligation of the Commission is to balance consumer and investor interests.[35] Indeed, of the consumer issues that are

[35] *FPC v. Natural Gas Pipeline Co.*, 315 U.S. 575, 606 – 608; *see also Commonwealth ex rel. Stephens v. S. Cent. Bell Tel. Co.*, 545 S.W.2d 927, 930-931 (Ky. 1976).

important drivers of the just and reasonable ROE determination, one of the most significant is the concern about affordability. If a sizable portion of customers cannot afford to pay the rates charged by PAWC, the PUC can hardly be said to have approved just and reasonable rates. Such concerns should bear directly on the determination of the fair ROE. In addition, as a utility such as PAWC adds more and more expensive plant, this increases rates, which may in turn put downward pressure on the just and reasonable ROE not for financial reasons, but because of affordability concerns.

The most fundamental response to unaffordability in the PAWC service territory is to minimize the rate increases, if any, approved in this proceeding. Through such a minimization strategy, the Commission will address affordability for all customers, not merely for those who apply for (and are found eligible to receive) low-income assistance. Carefully balancing competing customer and investor interests in setting a return on equity, as noted above, while carefully reviewing the Company's proposed capital expenditures, and denying rate recovery for expenditures that are either unnecessary, not used and useful, or that are otherwise inappropriately proposed to be charged to ratepayers, is the first step (but only the first step) in addressing unaffordable bills.

Q. IS THERE A SECOND REASON TO UNDERTAKE A DETAILED EXAMINATION OF AFFORDABILITY IN THE PAWC SERVICE TERRITORY?

A. Yes. There is often a tendency to downplay the impacts of utility rate increases in circumstances where the utility offers a bill affordability program (often coupled, as is the case with PAWC, with arrearage forgiveness). One problem with that tendency arises when the bill affordability program reaches a small proportion of a utility's low-income

population. Given a history of Commission concern, which I will discuss further below, it is important to assess the extent to which PAWC has both: (1) identified its low-income population; and (2) enrolled its low-income customers into the BDP/AFP where possible and appropriate.

Q. WHAT DO YOU FIND AS TO THE IDENTIFICATION OF LOW-INCOME PAWC CUSTOMERS AND THE ENROLLMENT OF THOSE CUSTOMERS INTO THAT COMPANY'S BDP?

A. PAWC has identified a relatively small proportion of the estimated number of low-income customers which it serves, and enrolled those low-income customers in its Bill Discount Program (BDP). What this means is that, notwithstanding the Company's BDP, there is not merely a majority, but a large majority, of PAWC's low-income customer base that is not participating in, and thus not protected by, the Company's bill affordability program. The data is set forth in the Table below.

Table 6. PAWC Estimated Low-Income, Identified Low-Income Customers, and BDP Participants[36]

Estimated low-income (LI)	150,503
Identified low-income	16,091
No. of BDP participants	15,813
Pct Estimated LI that are Identified LI	10.7%
Pct Estimated LI participating in BDP	10.5%

[36] OCA-IV-2.

As the Commission found with both Columbia Gas and PGW, PAWC enrolls a small fraction of the Company's low-income customer base into its CAP.[37] Only one-in-ten estimated low-income customers on the PAWC system have been identified as low-income. Even fewer have been enrolled in the Company's BDP.[38] Of the estimated 150,000 low-income customers served by PAWC, in other words, roughly 134,000 are not seen by PAWC as being low-income and are not provided any of PAWC's low-income services.

Q. WHY IS THIS PAWC FAILURE TO IDENTIFY THE COMPANY'S LOW-INCOME CUSTOMERS AND TO ENROLL THEM INTO CAP OF CONCERN?

A. The failure of PAWC to identify its low-income customers and to enroll those customers into CAP presents a financial concern. The Company's failure to maintain service to low-income customers can be seen both in the absolute number of nonpayment disconnections to Identified Low-Income customers and in the rate of nonpayment disconnections for

[37] Pennsylvania PUC vs. Columbia Gas Company, Docket No. R-2025-3053499, et al., at page 350 (December 4, 2025) (": "As of December 2024, only 20,988 Columbia customers were enrolled in CAP, accounting for only 23% of the Company's estimated low income customers and 30% of its [Confirmed Low-Income] customers. Such statistics highlight that additional CAP screening is appropriate. Therefore, we emphasize the need for Columbia to improve CAP participation, especially when considering Columbia's proposed revenue increase in this proceeding."); see also, PUC vs. Philadelphia Gas Works, Docket No. R-2023-3037933, Final Order, at page 226, (November 9, 2023) ("we note how PGW lags other utilities in their identification, enrollment, and maintenance of low-income customers in programs that are designed to help low-income customers. Therefore, *we agree with the ALJs' recommendation that data and technology are key to low-income customer service* and we find the ALJs' recommended approach reasonable in the circumstances.")

[38] A high percentage of Identified Low-Income customers are enrolled in the BDP. This flows, however, from the fact that PAWC uses enrollment in the BDP as the means by which to "identify" low-income customers. This narrow reading of how to identify low-income customers is addressed elsewhere in my testimony.

those Identified Low-Income customers relative to the rate of nonpayment disconnections for residential customers as a whole.

Table 7 presents the data. From December 2023 through November 2025, PAWC disconnected service to 19,420 Identified Low Income customers.[39] The three-year data shows that even though there was a dip in the rate of Identified Low Income nonpayment disconnections after 2023, there was a corresponding decline in overall residential disconnections. In the twelve months ending November 2025, the number of low-income disconnections once again increased. In relative terms, in all three years,[40] PAWC disconnected its Identified Low Income customers at a rate five to more than six times higher than it disconnected residential customers as a whole.

[39] OCA-04-006.

[40] For purposes of this discussion, a "year" is defined as the twelve months ending in November. In this manner, complete heating seasons are retained.

Table 7. Number and Rate of PAWC Nonpayment Disconnections for Identified Low-Income (ILI) Customers, Rate of Residential Nonpayment Disconnections (2023 – 2025) [41]

	2023	2024	2025
No. of Identified Low-Income (ILI) Nonpayment Disconnections[42]	6,355	5,537	7,528
Rate of ILI Nonpayment Disconnections[43]	15.5%	11.0%	12.5%
Rate of Residential Disconnections	2.5%	2.0%	2.4%
Ratio: Low-income to residential disconnections	6.2	5.2	5.1
Rate of Identified Low-Income (ILI) Nonpayment Disconnection Notices[44]	2.2	1.7	1.9
Rate of Residential Nonpayment Disconnection Notices	0.4	0.3	0.3
Ratio: Low-income to residential disconnections	5.5	5.7	6.3

The rate at which PAWC issues notices of disconnection follows this same pattern. Low-income PAWC customers receive disconnection notices at a rate from 5½ to 6½ times more frequently than do residential customers as a whole.

PAWC cannot say that it was offering its low-income customers an opportunity to redress payment difficulties and to maintain service through deferred payment arrangements, let alone through successful payment arrangements. For low-income customers in particular, PAWC relies much more heavily on nonpayment disconnections as a collection device than it relies on deferred payment arrangements. As can be seen, PAWC is more than

[41] OCA-IV-06. In this Table, each "year" references the 12-month period ending in November of the year. For example, "2023" refers to the twelve months ending November 2023.

[42] This data shows the number of nonpayment disconnections, not the number of accounts disconnected. Accounts that experienced more than one disconnection appear twice.

[43] According to the 2023 BCS Report, "the Termination Rate is calculated by dividing the number of service terminations by the number of residential customers. . ." 2023 BCS Report, at 14.

[44] This data shows the number of nonpayment disconnection notices, not the number of accounts receiving such notices. Accounts that received more than one disconnection notice appear twice.

two times more likely to resort to a disconnection for nonpayment (DNP) for low-income customers than it is for residential customers as a whole. While in 2025, the Company implemented roughly 21 DNPs for each 100 payment arrangements, it pursued only 8 DNPs for each 100 payment arrangements for residential customers as a whole.

Table 8. Ratio of PAWC Nonpayment Disconnections for Residential and Identified Low-Income (ILI) Residential Customers to Deferred Payment Arrangements (2023 – 2025) [45]

	2023	2024	2025
No. of Disconnections for Nonpayment to Each 100 Payment Arrangements: Residential	9.0	8.3	8.0
No. of Disconnections for Nonpayment to Each 100 Payment Arrangements: Identified Low-Income (ILI)	21.3	18.8	20.8
Ratio of ILI to Residential	2.4	2.3	2.6

In 2025, for each 100 payment arrangements newly entered into by PAWC for Identified Low Income customers, the Company disconnected roughly 21 customers. While there was some variation in 2024, the rate of disconnections and the ratio of residential-to-low-income remained roughly the same in 2023 and 2025.

Based on the above, I conclude that it cannot reasonably be asserted that PAWC is effectively using its universal service programs, including enrollment in its BDP, to help low-income customers maintain electric service. This PAWC failure has financial implications to PAWC. I discuss those financial implications below.

Q. IS THERE A FINANCIAL IMPACT TO PAWC FROM ITS FAILURE TO ADEQUATELY IDENTIFY ITS LOW-INCOME CUSTOMERS AND ENROLL THEM INTO THE COMPANY'S BDP AND AFP?

[45] OCA-IV-06. In this Table, each "year" references the 12-month period ending in November of the year. For example, "2023" refers to the twelve months ending November 2023.

A. Yes. PAWC's failure to adequately identify the Company's low-income customers and enroll those customers into the Company's BDP and/or AFP results in adverse financial impacts to the Company and to its remaining ratepayers. I discussed above the increased rate of disconnections experienced by low-income customers not enrolled in BDP. I turn now first to the rate at which PAWC collects its bills for current service. I next turn to the long-term implications of service disconnections for nonpayment.

Q. HOW WELL DOES PAWC COLLECT ITS BILLS FOR CURRENT SERVICE FROM LOW-INCOME CUSTOMERS?

A. I examine the PAWC collections by examining two metrics: (1) the payment-to-bill ratio; and (2) the payment coverage ratio. The payment-to-bill ratio is a simple calculation. I place the *number* of payments received from customers in the numerator. I place the *number* of bills issued to these customers in the denominator. If 70 payments are received, while 100 bills were issued, the payment-to-bill ratio is 0.70. The payment coverage ratio is also a straightforward calculation. I place the *dollars* of payments received in the numerator and the dollars of bills issued in the denominator. If $1,000 in bills are issued, and $300 in payments are received, the payment coverage ratio is 0.30.

PAWC is much less successful in collecting from its low-income customers in the absence of its BDP and AFP. The data is set forth in the Table below. The data shows that while PAWC received roughly 70 payments for each 100 bills rendered to Identified Low Income customers from 2023 through 2025, it received roughly 90 payments for each 100 bills issued to residential customers as a whole. Moreover, even when payments were made, low-income customers were able to pay less of their bill for current service in the same three year period. While low-income payments covered less than

40% of the bills for current service in 2024 and 2025, residential payments covered nearly twice that amount (from 72% in 2025 to 76% in 2023). Clearly, in the absence of BDP, PAWC struggles more to collect the bills it is issuing to low-income customers.

Table 9. Payment-to-Bill Ratios and Payment Coverage Ratios Identified Low-Income (ILI) Customers vs. Residential Customers (2023 – 2025)[46]

	2023	2024	2025
ILI Payment-to-Bill Ratios	73.3	70.5	72.0
Residential Payment-to-Bill Ratios	90.2	88.8	89.6
ILI Payment Coverage Ratios	43.7%	39.4%	37.8%
Residential Payment Coverage Ratios	75.6%	72.4%	71.5%

Q. HAVE YOU EXAMINED PAWC DISCONNECTIONS AND RECONNECTIONS?

A. Yes. My review of PAWC disconnections and reconnections finds that PAWC fails to reconnect a substantial number and percentage of customers after those customers were disconnected for nonpayment. On a twelve month basis for 2022 through 2025 (YTD), PAWC reported reconnecting from roughly half (49% in 2023) to three-fifths (61% in 2022; 57% in 2025 YTD) of those accounts which it disconnected for nonpayment. In the twelve months ending in December 2024, PAWC had disconnected 16,565 residential accounts and reconnected only 9,020 (54%). In the ten months ending October 2025 (the most recent data available), PAWC had disconnected somewhat more (18,899 residential accounts) and had reconnected somewhat more as well (9,020 residential accounts, 54%). This data is significant in that when a customer has service disconnected, *not* followed by a reconnection, the dollars of arrears on the customer account at the time of disconnection

[46] OCA-IV-06. In this Table, each "year" references the 12-month period ending in November of the year. For example, "2023" refers to the twelve months ending November 2023.

will generally not be collected by the Company. To the extent that disconnected customers are not being reconnected, PAWC is losing revenue due to nonpayment.

Table 10. Number of Disconnections for Nonpayment (DNP) and Reconnections after DNP (RNP) (12 month totals, 2022 – 2025 YTD)

12 Months Ending	12-Month DNP Total	12-Month RNP Total	Pct RNP of DNP
Dec-2022	24,779	15,122	61%
Dec-2023	21,629	10,668	49%
Dec-2024	16,565	9,020	54%
Dec-2025 (YTD October)	18,899	10,793	57%

The money that is being lost is substantial. The Table below shows the average arrears at the time of disconnection for residential customers as well as for identified low-income customers. Table 11 below shows that the degree to which the arrears of Identified Low-Income at the time of disconnection exceeds the arrears of residential customers is increasing. By the eleven months ending November 2025, the arrears of Identified Low-Income customers at the time of disconnection exceeded the arrears of residential customers in eight of the eleven months.

Table 11. Average Arrears at Time of Disconnection
(residential and Identified Low-Income)

The average arrears of all residential accounts disconnected for nonpayment in that month (OCA-IV-20)

Jan 2023	$593.02	Jan 2024	$682.94	Jan 2025	$1,002.71
Feb 2023	$702.09	Feb 2024	$799.06	Feb 2025	$800.65
Mar 2023	$1,039.83	Mar 2024	$692.88	Mar 2025	$1,066.18
Apr 2023	$708.26	Apr 2024	$778.21	Apr 2025	$1,131.50
May 2023	$578.43	May 2024	$612.91	May 2025	$739.55
Jun 2023	$641.74	Jun 2024	$596.13	Jun 2025	$707.57
Jul 2023	$515.49	Jul 2024	$643.47	Jul 2025	$747.00
Aug 2023	$570.41	Aug 2024	$655.16	Aug 2025	$626.18
Sep 2023	$558.58	Sep 2024	$655.82	Sep 2025	$618.32
Oct 2023	$769.74	Oct 2024	$959.33	Oct 2025	$620.26
Nov 2023	$548.76	Nov 2024	$0.00	Nov 2025	$631.53
Dec 2023	$780.29	Dec 2024	$1,055.79		

The average arrears of all identified low-income residential accounts disconnected for nonpayment in that month (OCA-IV-21)

Jan 2023	$498.24	Jan 2024	$348.89	Jan 2025	$755.41
Feb 2023	$856.74	Feb 2024	$1,440.82	Feb 2025	$962.61
Mar 2023	$813.89	Mar 2024	$514.64	Mar 2025	$1,537.82
Apr 2023	$432.80	Apr 2024	$568.60	Apr 2025	$936.97
May 2023	$478.23	May 2024	$454.69	May 2025	$578.82
Jun 2023	$558.14	Jun 2024	$701.54	Jun 2025	$959.86
Jul 2023	$623.31	Jul 2024	$625.19	Jul 2025	$946.73
Aug 2023	$508.14	Aug 2024	$276.79	Aug 2025	$704.65
Sep 2023	$490.58	Sep 2024	$989.87	Sep 2025	$648.62
Oct 2023	$632.56	Oct 2024	$ (30.00)	Oct 2025	$762.96
Nov 2023	$431.08	Nov 2024	-	Nov 2025	$3,332.15
Dec 2023	$628.06	Dec 2024	-		

Q. HAVE YOU REVIEWED THE SIZE AND AGE OF ARREARS FOR LOW-INCOME CUSTOMERS AND RESIDENTIAL CUSTOMERS AS A WHOLE?

A. Yes. Even beyond the disconnection of service for nonpayment, followed by a lack of reconnections, the failure to identify low-income customers and to enroll them in BDP/AFP is unnecessarily costing PAWC (and its ratepayers) money through the arrears that low-income customers carry. Not only are proportionately more low-income customers in arrears, but, those that are in arrears are deeper in arrears. As a result, PAWC is unnecessarily incurring working capital expenses. Given that working capital is a capital expense, it has an equity return associated with it. In turn, that equity return will have an additional tax impact associated with it.

There can be no question that PAWC's low-income customers are both disproportionately in arrears and, also, deeper in arrears. Table 12 below shows that in all 33 of the most recent 35 months available (January 2023 through November 2025), the average arrears of Identified Low-Income customers was higher than the average arrears of residential customers generally. Moreover, in all 35 of those most recent 35 months, the percentage of Identified Low-Income Customers in arrears exceeded the percentage of residential accounts in arrears.

Table 12. Percentage of Residential and Identified Low-Income[47] Accounts in Arrears and Average Dollars of Arrears (2023 – 2025 YTD)

Year / Month	The average arrears of residential accounts in arrears	The percentage of billed residential accounts having arrears	The average arrears of identified low-income residential accounts in arrears	The percentage of billed identified low-income residential accounts having arrears
Jan 2023	$335.68	26.87%	$371.70	58.01%
Feb 2023	$311.19	27.10%	$380.79	61.69%
Mar 2023	$400.96	19.58%	$403.08	66.02%
Apr 2023	$326.58	30.24%	$375.00	63.06%
May 2023	$279.98	29.23%	$380.55	66.89%
Jun 2023	$320.10	29.09%	$369.87	65.46%
Jul 2023	$364.27	26.09%	$377.36	61.83%
Aug 2023	$293.08	28.33%	$387.26	67.80%
Sep 2023	$349.45	28.65%	$378.76	63.86%
Oct 2023	$298.61	29.02%	$400.40	65.89%
Nov 2023	$292.62	29.63%	$391.70	66.45%
Dec 2023	$305.49	31.08%	$376.46	64.99%
Jan 2024	$328.25	29.64%	$406.08	65.01%
Feb 2024	$317.81	28.44%	$416.77	65.15%
Mar 2024	$298.52	30.52%	$430.69	65.73%
Apr 2024	$299.74	28.44%	$407.27	64.94%
May 2024	$289.26	29.06%	$386.89	67.13%
Jun 2024	$341.88	29.62%	$377.30	64.07%
Jul 2024	$330.90	28.51%	$381.98	65.42%
Aug 2024	$318.41	30.97%	$377.65	66.73%
Sep 2024	$353.03	32.87%	$380.65	64.58%
Oct 2024	$293.80	34.75%	$397.01	69.68%
Nov 2024	$316.16	37.75%	$433.70	69.18%
Dec 2024	$285.85	37.31%	$459.15	71.82%
Jan 2025	$302.22	36.03%	$466.38	72.21%

Table 12. Percentage of Residential and Identified Low-Income[47] Accounts in Arrears and Average Dollars of Arrears (2023 – 2025 YTD)

Year / Month	The average arrears of residential accounts in arrears	The percentage of billed residential accounts having arrears	The average arrears of identified low-income residential accounts in arrears	The percentage of billed identified low-income residential accounts having arrears
Feb 2025	$334.65	35.31%	$467.14	69.00%
Mar 2025	$321.90	32.71%	$484.85	69.23%
Apr 2025	$331.69	31.35%	$451.98	67.92%
May 2025	$314.87	34.66%	$392.01	71.23%
Jun 2025	$355.34	31.92%	$408.68	68.08%
Jul 2025	$341.02	31.59%	$385.49	69.64%
Aug 2025	$351.20	34.76%	$363.57	69.57%
Sep 2025	$363.30	31.87%	$359.20	68.01%
Oct 2025	$315.01	33.68%	$353.52	72.31%
Nov 2025	$343.67	29.90%	$336.64	61.44%

Given the improved low-income payment patterns generated by enrollment of low-income customers in the Company's bill discount and arrearage forgiveness programs, identifying low-income customers and enrolling those customers in CAP can reasonably be expected to have a positive financial impact on PAWC.

Q. WHAT DO YOU CONCLUDE?

A. My testimony above should be read together in order to reach reasonable conclusions. The conclusions flow as follows: (1) bills to PAWC low-income customers are substantially unaffordable. PAWC bills consistently and significantly exceed an affordable percentage of income burden; (2) PAWC has identified a relatively small proportion of its low-income customers and, of those low-income customers it has

[47] Excluding Bill Discount Program participants.

identified, PAWC has enrolled an even smaller proportion into its BDP; (3) PAWC's low-income non-CAP customers disproportionately lose their service to nonpayment disconnections and, even those who do not experience a disconnection, are in arrears more frequently and to a deeper extent than non-low-income customers; and (4) enrolling customers in BDP/AFP results in substantial improvements in low-income payment patterns, transforming customers who were deeply in arrears and experiencing nonpayment disconnections into customers who are paying more of their billed revenue.

Based on this discussion, I conclude that identifying PAWC's low-income customers and enrolling those customers into BDP/AFP will not only benefit the customers by helping those customers maintain their water service, it will benefit PAWC as a whole as well by enhancing revenues and reducing expenses.

Part 3. Enhancing PAWC's Identification of its Low-Income Customers and Expanding Enrollment into CAP.

Q. PLEASE EXPLAIN THE PURPOSE OF THIS SECTION OF YOUR TESTIMONY.

A. In this section of my testimony, I explain how PAWC should enhance its identification of low-income customers and its enrollment of those customers into CAP. In my prior sections, I detail the reasons *why* PAWC should improve its performance. In this section of my testimony, I explain *how* PAWC should improve its performance.

A. Identifying Low-Income Customers.

Q. HAS THE COMMISSION RECENTLY STATED THAT A NARROW READING OF ITS DEFINITION OF "CONFIRMED LOW-INCOME" IS INAPPROPRIATE?

A. Yes. Consider, for example, the Commission's discussion in its Columbia Gas decision rendered on December 9, 2025. In that decision, the Commission stated: "As of December 2024, only 20,988 Columbia customers were enrolled in CAP, accounting for only 23% of the Company's estimated low income customers and 30% of its [Confirmed Low-Income] customers. Such statistics highlight that additional CAP screening is appropriate. Therefore, we emphasize the need for Columbia to improve CAP participation, especially when considering Columbia's proposed revenue increase in this proceeding."[48]

The Columbia Gas proceeding was not the first time the Commission had expressed such concerns. In addition, in deciding PGW's 2023 rate case, the Commission expressed concern about the failure of PGW to adequately enroll low-income customers into that Company's CAP. For purposes of reviewing the rate increases which PAWC proposes in this proceeding, I note that the Commission said in its PGW Final Order:

> Additionally, we note how PGW lags other utilities in their identification, enrollment, and maintenance of low-income customers in programs that are designed to help low-income customers. Therefore, *we agree with the ALJs' recommendation that data and technology are key to low-income customer service* and we find the ALJs' recommended approach reasonable in the circumstances.[49]

These concerns recognize the needs of those low-income customers who have been left behind. Those who are left behind include customers who are income-eligible but who, for whatever reason, are not participating in PAWC's BDP/AFP. Given this history of

[48] Pennsylvania PUC vs. Columbia Gas Company, Docket No. R-2025-3053499, et al., at page 350 (December 4, 2025).

[49] Final Oder, Docket No. R-2023-3037933, at page 226, November 9, 2023 (emphasis added).

Commission concern, it is important to assess the extent to which PAWC has both: (1) identified its low-income population; and (2) enrolled its low-income customers into BDP/AFP where possible and appropriate.

Appropriately and accurately identifying the Company's "identified low-income" customers[50] is not only important from the perspective of BDP/AFP outreach, but also qualifies such customers for various fee waivers. While the Commission's concerns cited above apply to a natural gas utility, the policy concerns behind those concerns would apply to PAWC as well.

Q. HAVE YOU EXAMINED MECHANISMS THROUGH WHICH PAWC MIGHT IDENTIFY ITS LOW-INCOME CUSTOMER BASE?

A. Yes. I recommend that PAWC adopt an internal process to identify its low-income customer base that is based on the policy that the Commission adopted for Pennsylvania's energy utilities. I do not recommend this to be PAWC's policy because it is dictated by Commission regulation or statute. I instead recommend that it be done because it represents good business practice that benefits PAWC and its ratepayers.

The Commission's policy on identifying low-income customers can be seen in its regulation relating to natural electric utilities. The PUC's regulations explicitly define a "confirmed low-income" customer for Natural Gas Distribution Companies as follows:

> *Confirmed low-income residential account*—Accounts where the NGDC has obtained information that would reasonably place the customer in a low-income designation. This information may include receipt of LIHEAP funds

[50] Use of the term "Identified Low-Income" in my testimony is intended to be a PAWC corollary to the term "Confirmed Low-Income" used by Pennsylvania's energy utilities. I use a different term to make clear that I am not suggesting that PAWC is bound by PUC regulations regarding "Confirmed Low-Income" customers.

> (Low-Income Home Energy Assistance Program), self-certification by the customer, *income source* or information obtained in § 56.97(b) (relating to procedures upon rate-payer or occupant contact prior to termination).[51]

(emphasis added). This definition can easily be adapted for PAWC. I recommend that PAWC identify as an Identified Low-Income Customer accounts those accounts where the Company has obtained information that would reasonably place the customer in a low-income designation. This information may include enrollment in the Bill Discount Program and/or Arrearage Forgiveness Program, self-certification by the customer, *income source* or information obtained in § 56.97(b) (relating to procedures upon rate-payer or occupant contact prior to termination).

A customer's self-attestation of the receipt of public assistance (e.g., Supplemental Nutrition Assistance Program [SNAP], welfare, Supplemental Security Income [SSI], Medicaid), for example, would all place a customer in a "low-income designation." For purposes of establishing the customer's "Identified Low-Income" status, it would not matter what specific dollar level of income allows the customer to receive such assistance. The mere fact of receiving such assistance would be sufficient to meet the PUC's policy as set forth in the natural gas regulation. A customer need not provide actual dollars of income that would allow PAWC to determine whether that income calculates at a level that would establish the customer's low-income status.

Appropriately and accurately identifying the Company's "Identified Low-Income" customers is not only important from the perspective of BDP/AFP outreach, but also qualifies such customers for various fee waivers. By statute, for example, the

[51] 52 Pa. Code § 62.2.

Commission may order the waiver of late fees for customers with income less than 150% of the Federal Poverty Level.[52]

Q. HAS THE COMMISSION EXPRESSED A POLICY CONCERN ABOUT PENNSYLVANIA UTILITIES ADEQUATELY IDENTIFYING THEIR LOW-INCOME POPULATIONS?

A. Yes. Consider that, in its Final Order in Docket R-2023-3037933, the Commission specifically addressed PGW's identification of Confirmed Low-Income customers. In explicitly rejecting PGW's reading of the Commission's regulations, the Commission held:

> We agree with the ALJs' conclusion that PGW's process for identifying low-income customers is flawed. PGW's reading of the confirmed low-income designation appears to limit the pool of Confirmed Low-Income Customers by only counting customers enrolled in CRP, receiving LIHEAP, and on low-income payment agreements. Section 62.2 of our Regulations defines the "Confirmed Low-Income Customers" designation in broader terms, as it provides examples of information that PGW may rely upon when making such designation, and not an exhaustive list. In other words, the enumeration of these examples of information in the regulation does not imply the exclusion of others if the information is obtained by the Company and would reasonably place the customer in a low-income designation. [53]

There is no reason to believe that the Commission could, or should, be more concerned about PGW adequately identifying its low-income population than it would be concerned about PAWC comprehensively identifying its low-income population.

Q. WHAT DO YOU RECOMMEND?

---

[52] 66 Pa.C.S. § 1409, see also, 52 Pa. Code § 56.22

[53] Final Order, Docket No. 2023-3039733, at page 221.

A. First, the Company's initial insights into the low-income status of a customer is during the service application. It is at that point when PAWC has direct personal contact with a customer and when it seeks information from the customer. Accordingly, I recommend that PAWC initiate a screening process at the time a household first applies to receive service from the Company to determine whether the applicant: (a) should be classified as an Identified Low-Income customer; and (b) should be referred to the BDP application process. Indeed, this screening process presents an ideal opportunity for PAWC to determine if new applicants for service might qualify for the Company's low-income programs.

Second, I recommend that Commission regulations on related subjects should be read together to discern the underlying Commission policy decision. Even though PAWC does not impose residential cash security deposits, the Commission's regulations on deposit exemptions provide insight into what the Commission deems a reasonable way to identify someone as "low-income." PUC regulations provide that "An applicant is confirmed to be eligible for a customer assistance program by the public utility if the applicant provides income documents *or other information attesting to his or her eligibility for state benefits based on household income eligibility requirements that are consistent with those of the public utility's customer assistance programs*."[54] (emphasis added). Accordingly, I recommend that PAWC actively seek, in its customer contacts, to ascertain from a customer whether that customer is participating in a program providing

[54] *52 Pa. Code* § 56.32(e).

"state benefits based on household income eligibility requirements that are consistent with those of the [Company's bill discount program]."

A customer's self-attestation of the receipt of public assistance (e.g., Supplemental Nutrition Assistance Program [SNAP], welfare, Supplemental Security Income [SSI], Medicaid), for example, would all place a customer in a "low-income designation." For purposes of establishing the customer's "Identified Low-Income" status, it would not matter what specific dollar level of income allows the customer to receive such assistance. A customer need not provide the actual dollars in income that would allow PAWC to determine whether that income "calculates at a level" that would establish the customer's low-income status. The mere fact of receiving such assistance is sufficient to meet the recommended definition.

Q. CAN YOU ILLUSTRATE WHY OR HOW USING SUCH INFORMATION WOULD REASONABLY EXPAND PAWC'S IDENTIFICATION OF ITS LOW-INCOME CUSTOMER BASE?

A. Yes. Remember, the data provided by PAWC indicates that it has 150,503 estimated low-income customers and only 16,091 Identified Low-Income customers (i.e., 10.7% of estimated low-income customers have been identified as low-income). Remember, further, that the number (and thus percent) of customers identified as low-income (16,091, 10.7%) barely exceeds the number of customers which PAWC has enrolled in its BDP (15,813, 10.5%).[55] Compare that, for example, to the SNAP participation rate in

[55] See, Table 6, supra.

2022, which exceeded 98% of low-income households in Pennsylvania.[56] Given that 98% of households that are income-eligible for SNAP are actually enrolled in SNAP in Pennsylvania, using PAWC's customer contact to simply ask customers whether they are enrolled in SNAP would increase the Company's identification of its low-income customers.

B. Expanding Enrollment of Low-Income Customers into BDP/AFP.

Q. DO YOU HAVE RECOMMENDATIONS ON HOW PAWC SHOULD EXPAND ITS ENROLLMENT IN CAP WITHIN ITS IDENTIFIED LOW-INCOME CUSTOMER POPULATION?

A. Yes. I recommend two specific steps that PAWC should direct toward customers: (1) before they enter into deferred payment arrangements; or (2) before they are disconnected for nonpayment. I address each recommendation separately below.

Q. PLEASE EXPLAIN YOUR RECOMMENDATION REGARDING BDP/AFP ENROLLMENT AND DEFERRED PAYMENT ARRANGEMENTS.

A. My recommendation is that Identified Low-Income customers (as I discuss above) who are negotiating a deferred payment agreement (DPA) with the Company, as well as customers from whom the Company receives information placing them in an income tier of 0% to 150% FPL, should be provided a stand-alone written Plain Language notice informing those customers of their right, in the alternative, to enroll in the Company's BDP (along with an explanation of the advantages of Company's arrearage forgiveness provisions). Through that opportunity, rather than needing to agree to retire their arrears

[56] See, https://fns-prod.azureedge.us/sites/default/files/resource-files/ear-snap-Reaching-Those-in-Need-2022.pdf

over an extended period of time, the Identified Low-Income customer would be allowed to enroll in BDP/AFP (if income-qualified) and, upon making appropriate payments, receive a forgiveness of their underlying arrearages. This written communication would be provided to Identified Low-Income customers, those customers from whom PAWC had previously received sufficient information to reasonably establish their low-income status.

Q. IS THERE A STATUTORY BASIS FOR IMPOSING THIS REQUIREMENT?

A. Yes. Pennsylvania statutes provide that:

> No public utility shall, directly or indirectly, by any device whatsoever, or in anywise, demand or receive from any person, corporation, or municipal corporation a greater or less rate for any service rendered or to be rendered by such public utility than that specified in the tariffs of such public utility applicable thereto. The rates specified in such tariffs shall be the lawful rates of such public utility until changed, as provided in this part. *Any public utility, having more than one rate applicable to service rendered to a patron, shall, after notice of service conditions, compute bills under the rate most advantageous to the patron*.[57]

(emphasis added). PAWC should not, in other words, require a customer, known to be an Identified Low-Income customer, to pay off arrears through a payment arrangement which arrears would be subject to forgiveness under the Company's BDP/AFP. The Recommended Decision in the 2025 Columbia Gas rate proceeding agreed, stating that "Both CAUSE-PA and OCA propose that the Commission should require Columbia to implement routine screening of its applicants and customers to determine eligibility for CAP and other universal service programs. . .We agree with both CAUSE-PA and OCA

[57] 66 Pa. Stat. and Cons. Stat. Ann. § 1303 (West).

on this issue. Improved screening and referrals could help ensure households are receiving the most advantageous available rate and is a statutory requirement."[58]

Q. HAS THIS OR ANY SIMILAR ISSUE BEEN RECENTLY ADDRESSED BY THE COMMISSION?

A. Yes. In the April 4, 2024, decision regarding the Universal Service and Energy Conservation Plan (USECP) of Columbia Gas, the PUC considered whether Columbia could apply an existing deposit against a low-income customer's outstanding arrears before refunding the difference pursuant to statute and regulation. The PUC held that the Company could *not* do so, stating:

> Commission regulations also state that a public utility must "refund a deposit, along with any applicable interest, within 60 days upon determining that the customer or applicant from whom a deposit was collected is not subject to a deposit…." *See* 52 Pa. Code § 56.53(f). The regulations do not permit the public utility to apply a deposit to a delinquent account balance if it is determined the customer was not responsible for paying the deposit prior to accruing the balance.
>
> Accordingly, we direct Columbia to refund security deposits, with applicable interest, collected from customers who are income–eligible for CAP. Columbia may apply the security deposit to the account balance only with the customer's informed consent. As part of obtaining this informed consent, Columbia must explain to the customer how applying the security deposit to the account balance would impact the customer's monthly bill.[59]

[58] Pennsylvania PUC v. Columbia Gas of Pennsylvania, Docket R-2025-3053499, Recommended Decision, at page 549 (October 3, 2025).

[59] Columbia Gas of Pennsylvania, Inc. Universal Service and Energy Conservation Plan for 2024 - 2028 Submitted in Compliance with 52 Pa. Code § 62.4, Docket M-2023-3039487, Order, at 31 (April, 2024). (hereafter 2024 Columbia USECP Order).

In a similar fashion, PAWC should be allowed to require an Identified Low-Income customer to pay off arrears through a payment arrangement "only with the customer's informed consent." Moreover, as the PUC stated with respect to applying deposits against arrearage balances, "as part of obtaining this informed consent," the Company must explain to the customer how enrolling in BDP/AFP and making the customer's arrearage subject to arrearage forgiveness "would impact the customer's monthly bill."

Q. WHY DO YOU CONSIDER DEFERRED PAYMENT ARRANGEMENTS FIRST?

A. A significant number of low-income payment arrangements default before they are successfully completed. During the period January 2023 through November 2025, PAWC entered into 93,326 payment arrangements with Identified Low-Income customers, 18,910 of those payment arrangements defaulted.[60] That is not to say that the remaining payment arrangements were successfully completed. Instead, those arrangements entered into in more recent months have not yet had sufficient time to default or be successfully completed. Nonetheless, it raises a legitimate question why PAWC would insist on entering into payment arrangements in nearly 19,000 cases over less than a three year period when those arrangements are likely to default.

Q. WHAT DID YOU FIND?

A. Offering a low-income customer a deferred payment arrangement, even a long-term deferred payment arrangement, is not a recipe for success if the reason the customer is in arrears in the first instance is that bills for current service are unaffordable. In those situations, all a deferred payment arrangement does is to begin with the unaffordable bill

[60] OCA-IV-06.

and *add* an additional installment payment through which to retire the arrears. In those instances, it should not be surprising that substantial numbers of payment arrangements for Identified Low-Income customers default in any given year. The remedy for unpaid bills by low-income customers is not to place those customers on a deferred payment arrangement, but rather to enroll those customers in BDP (with its arrearage forgiveness provisions). Through that remedy, PAWC would not merely address the unpaid bill, but would also address the underlying cause of the unpaid bill. Doing so would not only benefit the low-income customer, but would also benefit the Company and its remaining customers as well.

Q. WHAT DO YOU RECOMMEND?

A. I recommend that before PAWC enters into a DPA with a customer which the Company either: (1) knows to be an Identified Low-Income customer; or (2) has generated information through the DPA process documenting that the customer is in the income range at or below 150% FPL, it should be required to provide the customer a stand-alone Plain Language notice to that customer of the customer's right to apply for BDP and an explanation of the advantages of BDP's arrearage forgiveness benefits. PAWC should develop this Plain Language notice in collaboration with its Low-Income Advisory Committee. PAWC should enter into a payment arrangement with an Identified Low-Income customer only with the informed consent that the customer desires to enter into a payment arrangement rather than applying for BDP/AFP along with its arrearage forgiveness provisions. As the Commission has explained about obtaining the informed consent of a customer with respect to the return of low-income deposits, as part of obtaining this informed consent, PAWC should explain to the customer how enrolling in

BDP/AFP, and participating in arrearage forgiveness, would impact the customer's monthly bill relative to entering into a payment arrangement.

Q. WHY DO YOU ADDRESS THE DISCONNECTION OF SERVICE IN PARTICULAR?

A. There are several reasons why the disconnection of service should be considered in particular. First, in all the ways I have discussed in detail above, the disconnection of service has rate implications to all customers. Minimizing disconnections would minimize these adverse rate impacts. Second, as the Commission's Bureau of Consumer Services (BCS) notes in its most recent annual report on universal service programs and collection performance that "Termination of public utility service is the most serious consequence of customer nonpayment and is viewed as a last resort when customers fail to meet their payment obligations."[61] It is appropriate to assess whether service terminations are, in fact, being used by PAWC as a "last resort." Third, as BCS states: "Universal Service is a collective name applied to the policies, protections and services that *help low-income customers maintain electric and natural gas service*. . ." (emphasis added).[62] Given that PAWC's programs are intended to "help low-income customers maintain electric. . .service," it is appropriate to assess whether PAWC is achieving that objective by avoiding nonpayment disconnects.

[61]Bureau of Consumer Services, Pennsylvania PUC, Universal Service Programs and Collection Performance, 2024 Report, at page 11, available at https://www.puc.pa.gov/filing-resources/reports/universal-service-programs-and-collections-performance-reports/

[62] Id., at 3, citing Electricity Generation Customer Choice and Competition Act, 66 Pa. C.S. § 2803 and Natural Gas Choice Competition Act, 66 Pa. C.S. § 2202.

Q. WHAT DID YOU FIND?

A. PAWC disconnects service to thousands of low-income customers due to nonpayment. The Company reports that between January 2023 and November 2025, the Company disconnected 19,077 low-income customers for nonpayment (excluding BDP participants).[63] The number of low-income disconnects has increased. In 2023, PAWC disconnected 6,214 low-income accounts; in 2024, it disconnected 5,396 low-income accounts; and in 2025 (through November), it disconnected 7,467 low-income accounts.

Q. WHAT DO YOU RECOMMEND?

A. I recommend that, prior to the disconnection of an Identified Low-Income customer, PAWC adopt a procedure, developed in collaboration with its Low-Income Advisory Group under which it will offer the Identified Low-Income customer the opportunity to apply for the Company's BDP and AFP. If the customer expresses a desire to make such application, PAWC should postpone the disconnection for a reasonable period of time to allow the application process to be completed.

Q. PLEASE EXPLAIN WHY YOUR RECOMMENDATIONS ARE DUPLICATIVE OF EACH OTHER?

A. My recommendations above are duplicative of each other because experience in multiple programs documents that more effective program outreach is associated with making multiple "touches" with the potential participant population. Through adoption of the recommendations I advance above, PAWC increases the number of touches with its Identified Low-Income customers, and does so in different, yet interdependent,

[63] OCA-IV-06.

circumstances. The recommendations involve PAWC telling its Identified Low-Income customers: (1) enrollment in BDP/AFP is an alternative to having your service disconnected for nonpayment; and (2) enrollment in BDP/AFP is an alternative to entering into an unaffordable deferred payment arrangement. The multiple touches through adoption of these recommendations can reasonably be expected to increase BDP/AFP enrollment without need to adopt modifications to PAWC underlying universal service program. As I have discussed throughout my testimony, this improved enrollment not only benefits the low-income customers who choose to enroll in BDP/AFP, but will also benefit the Company and all remaining ratepayers by reducing costs and enhancing revenues.

C. Assessing PAWC's Current Outreach.

Q. PLEASE EXPLAIN THE PURPOSE OF THIS SECTION OF YOUR TESTIMONY.

A. In this section of my testimony, I review and comment upon the outreach and information provided by PAWC to its residential customer relating to the promotion of its BDP and AFP. I assess whether the existing outreach is sufficient to address the problems that I have identified above. I base my discussion on a review of materials that PAWC provided in response to discovery.[64] I focused my review on the materials that PAWC identified as being promotion of, or in support of promotion of, the Company's customer assistance programs (including the BDP and AFP).

[64] OCA-07-01, OCA-07-02, OCA-07-03, OCA-07-04.

The outreach provided, however, does not address the shortcomings I identified above. In particular, the outreach does not allow customers to make decisions regarding whether to enter into a deferred payment arrangement or to enroll in the arrearage forgiveness program with "informed consent." As I discuss above, as the Commission has specifically held with respect to consumer decisions about how to obtain deposit refunds, in order to provide "informed consent," the customer must be provided information with respect to the bill impacts of the competing decisions. No such information is provided in the PAWC outreach.

- Moreover, the PAWC outreach does not provide information to assist customers to not only know that a program exists, but information on how to access the program. In explaining the Bill Discount Program, for example, PAWC tells its customers that it provides: "A 30% to 90% discount on the monthly service fee and a 20% to 80% discount on the monthly volumetric charges, which saves the average residential customer using 3,201 gallons/month $17.66 to $64.99 every month." The outreach then states "For more information, **click here**." When one clicks on that link, the description of the BDP that is provided describes the BDP as follows: "40% to 80% discount on the monthly service fee and a 25% to 80% discount on the monthly volumetric charges, which saves the average residential customer using 3,212 gallons/month $19.93 to $55.39 every month." Rather than providing "more information," in other words, the information is identical.[65] That link then tells consumers: "Learn more about our H2O Program here." When one clicks on ***that*** link, however, the information describes the BDP as

[65] The difference in the referenced discounts is assumed to be a difference in the timing of the information provided in response to discovery in this proceeding.

follows: "A 30% to 90% discount on the monthly service fee and a 20% to 80% discount on the monthly volumetric charges, which saves the average residential customer using 3,201 gallons/month $17.66 to $64.99 every month." Again, no new or additional information is provided.

Q. IS THE INFORMATION PROVIDED TO CUSTOMERS ALWAYS COMPLETE AND ACCURATE?

A. No. Consider what the Company tells its customers about its arrearage forgiveness program. The current website information provided (via a link in a September 2025 email) explains the arrearage forgiveness program: "Once accepted into the program, customers who pay their current monthly bill in full, plus a $5 copayment, will have $25 of their past due balance forgiven."[66] A reasonable person reading that description sees a statement about a *one-time* forgiveness. The information provides no information to consumers that those customers may earn sufficient forgiveness over time to reduce their "past due balance" to $0. The information does not explain that a $25 credit is for *each* month that a bill is paid in full so long as an unpaid bill exists.

Moreover, PAWC does not even attempt to reconcile the conflicting information that is provided to consumers. For example, PAWC provided examples of shutoff notices issued to its residential customers. The PAWC shutoff notice states in relevant part, in all capital letters: "TO STOP THE SHUT OFF, YOU MUST PAY THE AMOUNT OVERDUE OR YOU MUST CALL US AT 1-855-669-8753 IF: (1) you cannot pay the

[66] Available at https://www.amwater.com/paaw/customer-service-billing/Customer-Assistance-Programs/h2o-help-to-others-program

overdue amount and *would like to discuss your eligibility to enter into a payment arrangement*" (emphasis added). The email outreach provided to its customers, however, states with respect to "Payment Arrangements" that "If you cannot pay your bill by the due date, please contact our Customer Service Center immediately, BEFORE the due date. . ." (capitalization in PAWC original). PAWC does not explain how a person sufficiently in arrears to receive a shutoff notice can "discuss [their] eligibility to enter into a payment arrangement" when the Company's other customer-facing information says that such contacts must be made "BEFORE (capitalization in PAWC materials) the due date. . ."

Q. WHAT DO YOU CONCLUDE?

A. None of the customer outreach provided by PAWC in response to discovery would substitute for the specific notices recommended , or the actions recommended, above. My recommendations should be adopted as they would enhance PAWC's communications to low-income customers by providing them with important information.

Part 4. Improving the Operation of PAWC's Arrearage Forgiveness Program.

Q. PLEASE EXPLAIN THE PURPOSE OF THIS SECTION OF YOUR TESTIMONY.

A. In this section of my testimony, I review the operation of PAWC's Arrearage Forgiveness Program (AFP).[67] The purpose of the AFP is to provide low-income customers with an

[67] PAWC uses two different terms to refer to providing arrearage forgiveness. At times, the Company's program is known as the Arrearage Forgiveness Program (AFP). At other times, it is referenced as the Arrearage Management Program (AMP). Throughout my testimony, the terms AFP and AMP are intended to be used interchangeable. The terms are synonymous.

opportunity to reduce the arrears they may have incurred prior to entering the AFP and the associated Bill Discount Program (BDP). The AFP policies I am addressing were set forth in the Direct Testimony of Christina Chard, who stated: "As part of the AMP, customers receive a $25 arrearage forgiveness credit in exchange for each full and timely monthly payment."[68] I recommend three changes to these AMP policies in order to improve the effectiveness of how the program operates.

Q. DO YOU HAVE REASON TO BELIEVE THAT THE AFP IS NOT OPERATING EFFECTIVELY TO ALLOW PROGRAM PARTICIPANTS TO REDUCE THEIR PRE-EXISTING ARREARS?

A. Yes. Pursuant to the PUC's Order in the docket relating to the Company's proposed AMP, the Company was charged with filing an Annual Report which evaluates the effectiveness of the plan.[69] The first Annual Report, covering October 1, 2024, through August 31, 2025, was submitted on October 15, 2025. According to that Annual Report, there were 3,149 participants in the AMP.[70]

The Annual Report documents the lack of success of the AMP in allowing program participants to retire arrears. The Annual Report states that the average arrearage of AMP participants at the time they enter the program was $1,234.90. Despite this level of pre-existing arrears brought into the program, the average amount of participant

[68] PAWC St. 2, at 13.

[69] Docket P-2021-3028195, Petition of Pennsylvania American Water Company for Approval of an Arrearage Management Plan, Order, at Ordering Para. 4 (December 7, 2023).

[70] OCA-04-019, Attachment, pages 156 – 158.

arrearages forgiven during the year was only $24.93. Despite the Annual Report covering a 12-month (annual) period, the average number of months in which participants earned forgiveness was only 0.268.[71] While the total dollar amount of arrearages held by AMP participants was nearly $4.2 million ($4,174,629.84), the total incremental Program costs incurred over the twelve-month period was only $84,333.[72]

In this section, I further explore why these poor results have arisen and recommend solutions.

Q. PLEASE EXPLAIN THE FIRST MODIFICATION YOU RECOMMEND FOR THE AFP AND THE PROBLEM IT SEEKS TO RESOLVE.

A. The first recommendation I make to modify the AFP is for PAWC to allow customers to earn a monthly arrearage forgiveness credit for each complete payment the customer makes. Under this recommendation, PAWC would adopt the same policy which the Commission has established for Pennsylvania's energy utilities. The policy which the Commission has articulated for energy utilities delivering arrearage forgiveness provides:

> Utilities should provide CAP customers with (a) pre-program arrearage (PPA) forgiveness for each on-time and in-full monthly CAP payment regardless of in-CAP arrears and (b) retroactive PPA forgiveness for any month(s) missed once the household pays its in-CAP/in-program balance/debt in full.[73]

[71] Id., at page 157.

[72] Id.

[73] Final Policy Statement and Order, 2019 Amendments to Policy Statement on Customer Assistance Program, 52 Pa. Code § 69.261–69.267, Docket No. M-2019-3012599, at pages 5 – 6.

The Commission's arrearage forgiveness policy for energy utilities, in other words, is that forgiveness credits should be provided for full and timely payments. *In addition*, retroactive credits are provided once the household pays its in-program balance in full.

Q. WHY DO YOU RECOMMEND EXTENDING THE COMMISSION ARREARAGE FORGIVENESS POLICY TO PAWC?

A. The failure to provide arrearage forgiveness credits in this fashion results in unreasonable and unfair results to the customer. Moreover, it impedes achieving the objective that the program is seeking to achieve in the first instance.

The data in Table 13 shows the Company receives far more payments from low-income customers than the payments which are "timely" pursuant to Company definition of "timely." The Table shows that for the 14 months for which data was provided, the total number of payments received was nearly two times higher than the number of timely payments provided (189%). In seven of the 14 months, the total number of payments was more than 200% of the number of "timely" payments received by PAWC.

Moreover, the Table shows that payments that were made, but not made in a "timely" fashion, are not necessarily delayed for substantial periods of time. The data shows that anywhere from 20% to more than 30% of the *total* payments made by AMP customers were made after the due date *but before the next billing date*. Under the Company's existing arrearage forgiveness policy, those AMP customers would not qualify to receive an AFP credit. Denying such credits not only impedes accomplishing the objective of the program in the first instance, it also fails to provide an incentive for customers to make their payment once the customer has missed the "due date."

Table 13. Payments Received by AMP (AFP) Customers (PAWC)
(OCA-12-3)

Date	A The total number of payments received	B The number of on-time payment received	C Ratio of Total Payments to Timely Payments (A / B)	D The total number of payments received after the due date but before the next billing date	E Percent of payments received after the due date but before the next billing date (D / A)
Oct 2024	52	32	162.5%	16	30.8%
Nov 2024	154	79	194.9%	33	21.4%
Dec 2024	314	146	215.1%	88	28.0%
Jan 2025	653	318	205.3%	115	17.6%
Feb 2025	1,012	566	178.8%	183	18.1%
Mar 2025	1,152	622	185.2%	238	20.7%
Apr 2025	1,326	644	205.9%	302	22.8%
May 2025	1,447	709	204.1%	307	21.2%
Jun 2025	1,545	754	204.9%	310	20.1%
Jul 2025	1,773	817	217.0%	382	21.5%
Aug 2025	1,687	824	204.7%	332	19.7%
Sep 2025	1,787	902	198.1%	355	19.9%
Oct 2025	1,819	1,064	171.0%	412	22.6%
Nov 2025	1,329	988	134.5%	252	19.0%
Total	16,050	8,465	189.6%	3,325	20.7%

The Company's restrictive policies on when, or whether, to grant AFP credits has resulted in the program being largely ineffective in delivering arrearage relief to low-income customers. As shown in Table 14 below, over the 14 months for which data was provided, less than one-quarter (24%) of the arrears that were subject to forgiveness were actually forgiven by PAWC. In some months, fewer than one-in-five customers who had arrears subject to forgiveness actually received such forgiveness.

Table 14. AFP Credits Actually Granted versus AFP Credits Available PAWC)
(OCA-12-3)

	A	B	C	D	E	F
Date	The number of arrearage forgiveness credits had 100% received forgiveness	The number of arrearage forgiveness credits that were actually provided	The dollars of arrearage forgiveness credits had 100% received forgiveness	The dollars of forgiveness credits actually provided.	Percentage of AFP Credits Actually Granted (B / A)	Percentage of Dollars of AFP Credits Actually Granted (D / C)
Oct 2024	109	0	$2,725	$0	0%	0%
Nov 2024	379	43	$9,475	$1,071	11%	11%
Dec 2024	624	118	$15,600	$2,896	19%	19%
Jan 2025	1,145	201	$28,625	$5,019	18%	18%
Feb 2025	1,660	323	$41,500	$8,010	19%	19%
Mar 2025	1,988	606	$49,700	$15,116	30%	30%
Apr 2025	2,372	645	$59,300	$16,099	27%	27%
May 2025	2,700	716	$67,500	$17,826	27%	26%
Jun 2025	2,879	749	$71,975	$18,663	26%	26%
Jul 2025	3,079	737	$76,975	$18,374	24%	24%
Aug 2025	3,120	792	$78,000	$19,748	25%	25%
Sep 2025	3,387	789	$84,675	$19,723	23%	23%
Oct 2025	3,784	853	$94,600	$21,290	23%	23%
Nov 2025	3,955	1,056	$98,875	$26,201	27%	26%
Total	31,181	7,628	$779,525	$190,036	24%	24%

Moreover, contrary to the Commission's existing energy policy, the restrictive policies of PAWC provide no incentive for customers to make partial payments in order to facilitate retiring their entire bill in a future month. If they miss a payment, or if they make a payment but make that payment after the due date, there is nothing they can do to cure that missed or late payment in order to earn an arrearage forgiveness credit.

Q. UPON WHAT DO YOU BASE YOUR CONCLUSION THAT THE RESTRICTIVE PAWC POLICIES ON GRANTING AFP CREDITS IS INEQUITABLE?

A. The inequity of the Company's restrictive AFP policy can be seen by comparing the results from Table 15 to the results from Table 14. Table 15 presents the dollars of payments made on the accounts of customers with pre-program arrears subject to forgiveness, both in dollars terms and in terms of the percentage of the bills for current service that were paid. The data shows that for the 14 months for which data is provided, despite AFP customers paying nearly half of their bills (48.3%), they received less than one quarter (24%) of the AFP credits that were potentially available.

Table 15. Dollars of Payments Received
(OCA-12-4)

Date	A The total dollars of payments received from or on behalf of AMP participants;	B The dollars of on-time payment received from or on behalf of AMP participants	C Ratio of Total Payments Received to Timely Payments Received (A / B)
Oct 2024	$3,228.84	$2,000.07	61.9%
Nov 2024	$9,706.23	$4,799.38	49.4%
Dec 2024	$22,884.94	$10,855.28	47.4%
Jan 2025	$52,509.67	$24,456.78	46.6%
Feb 2025	$86,932.43	$45,868.62	52.8%
Mar 2025	$93,936.68	$45,542.69	48.5%
Apr 2025	$108,466.50	$50,267.98	46.3%
May 2025	$132,778.77	$62,053.84	46.7%
Jun 2025	$135,085.95	$58,834.68	43.6%
Jul 2025	$173,608.61	$73,880.11	42.6%
Aug 2025	$161,010.36	$72,121.58	44.8%
Sep 2025	$167,002.62	$72,980.21	43.7%
Oct 2025	$162,788.70	$84,432.71	51.9%
Nov 2025	$101,665.43	$73,159.82	72.0%
Total	$1,411,605.73	$681,253.75	48.3%

The data in the Table above is consistent with PAWC's report that during this same time period, 4,931 AFP participants had retired less than 50% of the arrears that they would have retired had they earned 100% of the AFP credits that were potentially available.[74]

Q. PLEASE EXPLAIN THE SECOND MODIFICATION YOU RECOMMEND FOR THE PAWC ARREARAGE FORGIVENESS PROGRAM.

[74] OCA-12-06.

A. The second modification I recommend for the AFP is to expand the monthly credit that PAWC provides for a timely payment or for a cured missed or late payment. As I note above, PAWC witness Chard explains that the Company currently provides a $25 credit for each full and timely payment. This second modification recommends expanding the $25 credit. I recommend two alternative modifications: either (1) adopting a policy to forgive complete forgiveness in a pro rata fashion over a 24-month period; or (2) providing a $40 credit instead of a $25 credit. The $25 credit, however, is unreasonably low.

Q. UPON WHAT DO YOU BASE YOUR CONCLUSION THAT THE $25 AFP CREDIT IS UNREASONABLY LOW?

A. A $25 monthly credit will not allow low-income customers to retire their pre-program arrears in a reasonable time period given the level of pre-existing arrears they are bringing into the program. As a result, the efficacy of the program as a prompt (or incentive) for customers to continue to make payments over a long time period is impeded. Even when customers make their payments, they do not see the end-point at which they will have earned complete forgiveness of their arrears incurred before they enroll in the AFP (and the corresponding BDP to improve the affordability of their bills).

Table 16 documents both the number of months and the number of years it would take for a low-income customer to earn complete arrearage forgiveness given the *average* pre-existing arrears that newly-enrolled AFP customers have been bringing into the program and a $25 monthly credit. In no instance would an AFP participant be able to retire their arrears (given a $25 monthly credit) in fewer than three years. In seven of the fourteen months for which data was provided, given the average arrears that newly-enrolled

participants were bringing into the program, it would take in excess of four years to retire those arrears assuming that customers received their arrearage forgiveness credits in every month they participated in the program. Low-income customers tend to focus on their immediate needs in their financial planning. They do not have the luxury of considering the financial impacts of their current actions three or four or five years out. As a result, the potential that their arrears will be reduced to $0 (as promised in program participation), extending forgiveness over from three to nearly five (4.8) years is beyond a period which provides meaningful relief to the customer.

Table 16. Average Arrears on Accounts of Newly Enrolled Bill Discount Participants and Time Needed (months, years) to Retire those Arrears at $25 Monthly Credit
(OCA-12-5)

Month	A Average pre-existing arrears on accounts newly enrolled BDP participants, which arrears would be subject to forgiveness.	B (A / $25) Months to Retire if 100% Earned Each Month	C (B / 12) Years to Retire if 100% Earned Each Month
Oct 2024	$1,047.43	42	3.5
Nov 2024	$955.94	39	3.3
Dec 2024	$1,033.26	42	3.5
Jan 2025	$922.58	37	3.1
Feb 2025	$1,136.59	46	3.8
Mar 2025	$1,437.06	58	4.8
Apr 2025	$1,437.14	58	4.8
May 2025	$1,300.61	53	4.4
Jun 2025	$1,317.06	53	4.4
Jul 2025	$1,324.10	53	4.4
Aug 2025	$1,059.23	43	3.6
Sep 2025	$1,294.62	52	4.3
Oct 2025	$1,238.04	50	4.2
Nov 2025	$1,131.12	46	3.8

The lack of impact which the arrearage forgiveness is providing is not theoretical. According to PAWC, as of November 2025, AFP participants had participated in the program for an average of 6.3 months.[75]

Given that average participation, and a $25 monthly credit, virtually no-one has reduced their pre-existing arrears to $0 and thus removed from the AFP as having successfully

[75] OCA-12-6.

completed the program. Table 17 shows that after more than one year of program operation, PAWC has succeeded in reducing AFP pre-existing arrears to $0 for only 50 customers.

Table 17. Dollars of Pre-existing Arrears brought into Program at Time of Enrollment and Count of Program Participants who Reduced Pre-existing Arrears to $0 (OCA-12-3, OCA-12-6)

Month	The aggregate dollars of pre-existing arrears on AMP participant accounts at the time of enrollment;	The number of arrearage forgiveness credits that were actually provided;	Count of accounts removed form AMP because their arrears reached $0
Oct 2024	$101,092.57	0	0
Nov 2024	$287,625.71	43	1
Dec 2024	$308,527.26	118	4
Jan 2025	$446,462.04	201	2
Feb 2025	$568,448.86	323	3
Mar 2025	$383,545.34	606	2
Apr 2025	$661,785.75	645	2
May 2025	$614,878.90	716	5
Jun 2025	$383,018.45	749	3
Jul 2025	$433,590.05	737	5
Aug 2025	$424,727.63	792	4
Sep 2025	$414,799.93	789	1
Oct 2025	$695,343.02	853	6
Nov 2025	$523,927.64	1,056	12
Total	$6,247,773	7,628	50

This failure to provide an opportunity for customers to succeed in retiring their arrears is inherent in the current AFP design with its $25 monthly credit. A $25 arrearage credit over 24 months would result in a $0 balance only for any newly enrolled program participant with a pre-existing arrearage of $600 or less. Table 18 below shows the substantial number of newly-enrolled AFP customers whose pre-existing arrears exceeds that $600 level. Under the best of circumstances, therefore, where an AFP participant

earns a $25 credit in every month where a balance on the pre-existing arrears continues, these customers will not be able to retire their arrears in 24 months.

Table 18. Newly Enrolled AFP Customers by Level of Pre-existing Arrears (OCA-12-5)

Month	Total >$100 <$600[76]	Total $600+
Oct 2024	350	108
Nov 2024	241	87
Dec 2024	279	154
Jan 2025	328	168
Feb 2025	247	166
Mar 2025	237	270
Apr 2025	174	186
May 2025	201	166
Jun 2025	221	164
Jul 2025	180	141
Aug 2025	329	187
Sep 2025	405	289
Oct 2025	388	245
Nov 2025	232	161
Totals	3,812	2,492

Q. WHAT DO YOU RECOMMEND?

A. I recommend that PAWC modify the provision of arrearage forgiveness credits so that the Company provides a pro rata forgiveness of pre-existing arrears each month over a 24-month period. Under this approach, a program participant would earn a forgiveness

[76] PAWC was asked to provide a distribution of pre-existing arrears in increments of $100. The first increment, however, was labelled "$0 - $100." (OCA-12-5). It is thus not possible to tell from that response how many newly-enrolled participants had an arrears of $0 and how many fell into the range of $1 to $100. Accordingly, this range was excluded.

credit of 1/24th of their pre-existing arrears for each month for which they make a complete payment. An alternative way to accomplish this same result is to continue to provide a monthly arrearage credit. At the end of 24 months, PAWC would determine the percentage of total bills for current service paid by the AFP participant and would grant additional forgiveness of the pre-existing arrears equal to that percentage. If the customer had paid 100% of their bill for current service in that 24-month period, for example, they would receive forgiveness of 100% of their pre-existing arrears. If the customer had paid 80% of their bill for current service in that 24-month period, they would receive forgiveness of 80% of their pre-existing arrears.

Q. WHAT IS THE THIRD MODIFICATION YOU RECOMMEND FOR PAWC'S ARREARAGE FORGIVENESS PROGRAM?

A. PAWC needs to tie enrollment of low-income customers into its AFP more closely to enrollment in its BDP. A significant number of low-income customers are being enrolled into the BDP with a pre-existing arrears on their account at the time of enrollment who are not also enrolled in the AFP upon their enrollment in the BDP. The data showing this failure is set forth in Table 19. The Table presents the following data:

- Column A and Column B show similar, though not identical, data on the number of AMP/AFP participants by month. The data shows that by November 2025, the number of AFP participants had reached not quite 4,000 customers.

- In contrast, Column C and Column D show the number of customers who had a pre-existing arrears when they were newly enrolled into the BDP by month. This number was calculated by summing the number of newly-enrolled BDP participants by the dollar amount of pre-existing arrears reported by PAWC.[77]

[77] As explained above, PAWC was asked to provide the number of BDP enrollees with a pre-existing arrears at the time of enrollment in increments of $100. The PAWC response included a range of $0 - $100. It is thus not possible to determine who amongst that range had no arrears ($0) and who had a pre-existing arrears ($1 - $100).

Irrespective of whether I include or exclude the newly-enrolled BDP participants falling into the range of $0 - $100 into the count of BDP with a pre-existing arrears, the total number of newly-enrolled BDP participants with a pre-existing arrears exceeds the number of AFP participants by a substantial extent. If the $0 - $100 enrollees are *excluded*, the number of newly-enrolled BDP participants with pre-existing arrears exceeds the number of AFP participants by 50% (6,304 vs. 3,970). In contrast, if the $0 - $100 are *included*, the number of newly-enrolled BDP participants with pre-existing arrears exceeds the number of AFP participants by nearly 100% (7,899 vs. 3,970).

For whatever reason, PAWC appears to be enrolling customers into its BDP who have pre-existing arrears without at the same time enrolling those customers in the Company's AFP. This failure impedes the effectiveness of the BDP in promoting the affordability of low-income bills. Customers do not make separate payment toward their bills for current service and their bills for pre-existing arrears. Rather, they are required to make a payment toward their total bill. It matters little to low-income customers whether the unaffordability which they face is attributable to their bill for current service or attributable to the arrears which they incurred while being charged undiscounted rates.

Accordingly, Column C excludes the customers in that bottom range, while Column D includes the customers in that range.

Table 19. Total AMP Participants by Month
vs. Total BDP Enrollees with Pre-existing Arrears (OCA-12-003, OCA-12-005)

	A	B	C	D
Date	The total number of bills sent to AMP participants;	The number of arrearage forgiveness credits that would have been provided if 100% of customers with arrears subject to forgiveness had received that forgiveness;	Total new BDP enrollees (excluding arrears of $0 - $100)	Total new BDP enrollees (including arrears of $0 - $100)
Oct 2024	109	109	458	664
Nov 2024	380	379	328	432
Dec 2024	628	624	433	559
Jan 2025	1,221	1,145	496	628
Feb 2025	1,683	1,660	413	515
Mar 2025	2,012	1,988	507	614
Apr 2025	2,386	2,372	360	444
May 2025	2,712	2,700	367	437
Jun 2025	2,933	2,879	385	461
Jul 2025	3,182	3,079	321	404
Aug 2025	3,128	3,120	516	650
Sep 2025	3,410	3,387	694	853
Oct 2025	3,804	3,784	633	763
Nov 2025	3,970	3,955	393	475
Total			6,304	7,899

The intent of the AFP and BDP programs is to promote the affordability of total bills to low-income customers. PAWC should identify why customers who are newly enrolling into the BDP are not also being enrolled into the AFP simultaneously. The barriers to simultaneous enrollment in both programs should be removed. When a customer with a

pre-existing arrears enrolls in the BDP, that customer should also be enrolled in the AFP at the same time.[78]

Part 5. The Company's Proposed Renter Assistance Pilot Program (RAPP).

Q. PLEASE EXPLAIN THE PURPOSE OF THIS SECTION OF YOUR TESTIMONY.

A. In this section of my testimony, I respond to PAWC's proposed pilot "Renter Assistance Pilot Program" (RAPP). My understanding of the RAPP proposal is based on the Direct Testimony of Company witness Chard. She states that "PAWC is proposing a renter assistance pilot program ("RAPP") for income-eligible renters receiving water and wastewater service in master-metered buildings."[79] She explains that "The RAPP assists low-income residents with paying their utility bills when they are not responsible for paying for their utility service directly to their utilities because they are located in an apartment building that is master metered."[80] She states further that "The RAPP seeks to remove this barrier to assistance for low-income residents of master-metered buildings by making the residents eligible for quarterly stipends that are approximately equivalent to what the resident would be receiving if they were enrolled in the Company's BDP based on an average level of residential customer usage."[81] My understanding is that the

[78] The Settlement of the proceeding creating PAWC's AFP provided that "PAWC will allow customers to enroll in both the BDP and the AMP simultaneously, consistent with the streamlined application process outlined below." Petition of Pennsylvania American Water Company for Approval of an Arrearage Management Plan (On Remand), P-2021-3028195), Joint Petition for Settlement.

[79] PAWC St. 2, at 15.

[80] Id.

[81] Id., at 15 – 16.

assistance would be provided for both water and wastewater. My references to "water" in this section below are intended to incorporate both. I conclude that because the proposed RAPP represents a substantial change in regulatory policy in Pennsylvania, particular care should be taken in structuring that program and providing for approval, even on a pilot basis.

Q. PLEASE EXPLAIN WHAT YOU MEAN BY YOUR REFERENCE TO A SUBSTANTIAL CHANGE IN REGULATORY POLICY.

A. The proposed RAPP represents a substantial change in regulator policy in that it proposes to use ratepayer money to provide assistance to non-ratepayers. As I note above, PAWC witness Chard explicitly acknowledges that the program is designed to provide assistance to help "low-income residents with paying their utility bills when they are not responsible for paying for their utility service directly to their utilities." This diverges from the rationales advanced by the Commission when it was first considering the energy Customer Assistance Programs (CAPs). At that time, the Commission decision to implement what would become known as Pennsylvania's CAPs arose out of the PUC's investigation into the control of uncollectible accounts.[82] Through that investigation, the PUC's BCS had developed recommendations for implementation of CAPs. The commission found:

> CAPs provide alternatives to traditional collection methods for low-income, payment troubled customers. Generally, customers enrolled in a CAP agree to make monthly payments based on household family size and gross income. These regular monthly payments, which may be for an amount that is less

[82] In the Matter of the Investigation into the Control of Uncollectible Accounts, Docket No. I-900002 (initiated October 11, 1990).

than the current bill, are made in exchange for continued provision of utility service.[83]

The Commission continued:

> As a result of our investigation, the Commission believes that an appropriately designed and well implemented CAP, as an integrated part of a company's rate structure, is in the public interest. . .The purpose of this Policy Statement is to encourage expanded use of CAPs and to provide guidelines to be followed by utilities who voluntarily implement CAPs. These guidelines prescribe a model CAP which is designed to be a more cost-effective approach for dealing with issues of customer inability to pay than are traditional collection methods.[84]

The proposed RAPP diverges from the Commission policy as stated in the quotes immediately above in that it is not designed to "provide alternatives to traditional collection methods for low-income, payment-troubled customers." Nor is the RAPP "designed to be a more cost-effective approach for dealing with issues of customer inability to pay than are traditional collection methods." By providing assistance to non-customers, the issue of whether the program assists in improving payment patterns is removed.

Q. HAVE YOU EVER HAD OCCASION TO RESEARCH WATER ASSISTANCE PROGRAMS DIRECTED TOWARD RESIDENTIALS OF MULTI-FAMILY DWELLINGS WHO ARE NOT DIRECT UTILITY CUSTOMERS?

---

[83] Policy Statement on Customer Assistance Programs (CAP), Docket No. M-00920345, at 2 (July 2, 1992).

[84] Id., at 2. This Commission decision was supported by the BCS Final Report, which indicated: "The Bureau's position is that ratepayers are already bearing significant costs attributable to the problems of payment troubled customers and uncollectible balances. Further, BCS believes that incorporating the following recommendations into utility operations will lead to a more rational and cost effective use of existing resources. Over time, proper implementation of the recommendations may result in a reduction of total utility costs." BCS Uncollectibles Report, at 120

A. Yes. In 2023, I was hired by the City of Toledo in Ohio (OH) to develop a water affordability plan for the City. As part of that work, I was specifically asked to consider how the City might structure a program directed toward residents of multi-family properties when those tenants were not direct customers of the City's water utility. In studying such programs, I reviewed programs offered by Seattle (WA), Austin (TX), Columbus (OH), and the District of Columbia (Washington D.C.). I recommended that Toledo adopt such a program, thus indicating that I am not "opposed" to such programs. My testimony is instead that particular care must be taken in developing a program that uses ratepayer-supplied funding to provide assistance to households that are not customers of the utility.

Q. ARE THERE OPERATIONAL DETAILS THAT YOU WOULD SUGGEST BE DEVELOPED MORE FULLY BEFORE THE RAPP IS PRESENTED FOR APPROVAL BY THE COMMISSION?

A. Yes. There are several operational details that should be developed more fully prior to a RAPP being presented for approval. I recommend that the Company be directed to present its conceptual proposal for RAPP to its Low-Income Advisory Committee for further development of these program details prior to re-submitting the proposal, either in a separate proceeding or as part of its next rate case. The operational details would include, but not necessarily be limited to, the following:

- How will the program determine whether a household is, in fact, being allocated some portion of a multi-family dwellings water bill? Simply because a renter resides in a multi-family building does not mean that that renter is being allocated a portion of the multi-family water bill. There are mechanisms under which property owners will allocate water bills amongst tenants. In other instances, however, rents are not "cost-based" but rather are market-based. Where property

owners simply charge rents that are constrained by what the market will bear, there is less rationale to provide "water assistance."

- What objectives is the RAPP seeking to accomplish? Given that the delivery of RAPP assistance will have no impact on the payment patterns of RAPP recipients, since such recipients are not direct customers of the utility, those objectives will not involve improved payment patterns. Given that the RAPP is proposed as a *pilot*, the proposal appears to be intended to test some proposition. However, it is not clear what the objective of the program is and what it is being proposed to test. From the testimony provided outlining the program, those objectives cannot be ascertained. Accordingly, it is not (yet) possible to assess whether the program is "effective" or not. The question of "effectiveness" would necessarily involve asking "effective at accomplishing *what*?" That has not been developed or, if developed, has not yet been articulated in this proceeding.

- Is it necessary, and if so, how would it be accomplished, to ensure that the RAPP assistance being provided is being used to offset the water costs being "allocated" to the renter? Are dollars of tenant incomes considered to be generic, with the use of any particular dollars (including an assistance amount provided by PAWC) for payment of rent, food, medicine, or some other household expense being outside any consideration by PAWC?

- Conversely, is it possible to flow the RAPP assistance through the property owners to be applied as a credit against the income-qualified renter's rent or water allocation? In such a fashion, the assistance provided by water ratepayers is known to be used to offset water bills?

- How, if at all, will property owners be prevented from allocating a higher proportion of total multi-family water costs to renters who are receiving RAPP assistance from PAWC? If the property owner concludes that some substantial portion of the water bills being allocated to a particular tenant are, in fact, being offset by a payment from PAWC, what prevents that owner from increasing the bill, payment of which is so assisted?

- How are "multi-family" dwellings defined for purposes of RAPP? In addition to considering the number of units within a particular multi-family structure, does the term "multi-family dwelling" extend to manufactured home communities the delivery of water to which is master-metered? It is not unusual for manufactured home communities to be master-metered. It is also not unusual for residents of manufactured home communities to be lower-income.

Q. WHAT DO YOU CONCLUDE?

A. Based on my discussion above, I recommend that further attention be devoted to developing operational details for the proposed RAPP prior to the program being presented to the Commission.

Part 6. Assessing PAWC's Proposed Bill Discount Levels.

Q. PLEASE EXPLAIN THE PURPOSE OF THIS SECTION OF YOUR TESTIMONY.

A. In this section of my Testimony, I will review the discount levels which PAWC proposes to implement through its Bill Discount Program. In this discussion, I also review PAWC's proposal to modify its BDP so that discounts are provided on a whole-bill basis rather than having separate discounts provided to fixed monthly charges and monthly volumetric charges.

Q. PLEASE EXPLAIN THE COMPANY'S PROPOSAL TO MODIFY ITS BILL DISCOUNTS TO APPLY ON A WHOLE BILL BASIS.

A. My understanding of the Company's proposed modification of its discounts is based on the Direct Testimony of PAWC witness Chard. Ms. Chard states that "The Company is proposing to align water fixed and volumetric percentage discounts."[85] Given that modification, the Company proposes the discounts by tier as set forth in the Table below.[86]

[85] PAWC St. 2, at page 14.

[86] Id.

Table 20. PAWC Proposed Discount by Income Tier		
	Water	Wastewater
0 – 50% FPL	82%	85%
50 – 100% FPL	67%	73%
100 – 150% FPL	44%	55%
150 – 200% FPL	22%	37%

Q. PLEASE EXPLAIN YOUR RECOMMENDATION WITH RESPECT TO THE COMPANY'S PROPOSAL TO "ALIGN" THE DISCOUNTS FOR FIXED AND VOLUMETRIC CHARGES?

A. I agree that the PAWC proposal to align its discounts for fixed and volumetric charges is reasonable and should be approved. PAWC witness Max McClellan explains that "The Company is proposing to modify the percentage discounts of water customers to improve clarity and operational efficiency. The percentages applied to fixed and volumetric charges are already close together, and the new consolidated percentages approximate the same overall percentage discount on the bill as the existing discounts."[87] Finally, I agree that aligning the discounts on the fixed and variable portions of bills will "improve clarity and operational efficiency." Moreover, I find no conceptual reason why discounts should *not* be provided on a whole-bill basis. I separately address below, however, what those discounts should be.

Q. HAVE YOU HAD AN OPPORTUNITY TO EXAMINE THE BILL DIFFERENCE FOR BDP PARTICIPANTS AT THE EXISTING AND THE PROPOSED BDP DISCOUNT STRUCTURE?

[87] PAWC St. 10, at 5.

A. Yes. Exhibit RDC-2 attached to my testimony presents the data provided by PAWC when asked for the BDP bills using differing usage levels at the existing and proposed discount structure. An excerpt from Exhibit RDC-2 is presented in Table 21 below, showing the BDP bills at the existing and proposed BDP structure given monthly usage of 1,000 gallons/month, 2,000 gallons/month, 3,000 gallons/month, and 4,000 gallons/month. The bills for wastewater service are identical for the existing and proposed discount structures so I focus exclusively on bills for water service.[88] A positive number in the Table indicates that bills are higher under the proposed discount structure, while a negative number indicates that bills are lower under the proposed discount structure.

[88] PAWC used Zone 1 in its bill comparisons.

Table 21. BDP Bills by Usage Level and Income Tier
Given Existing and Proposed Discount Structure

	1000 gallons/month	2000 gallons/month	3000 gallons/month	4000 gallons/month
		Tier 1		
Existing	$6.61	$11.23	$15.84	$20.46
Proposed	$7.75	$11.90	$16.06	$20.21
Difference	$1.14	$0.67	$0.22	($0.25)
		Tier 2		
Existing	$13.07	$21.15	$29.22	$37.30
Proposed	$14.21	$21.83	$29.44	$37.05
Difference	$1.14	$0.68	$0.22	($0.25)
		Tier 3		
Existing	$21.84	$35.68	$49.52	$63.37
Proposed	$24.12	$37.04	$49.96	$62.87
Difference	$2.28	$1.36	$0.44	($0.50)
		Tier 4		
Existing	$32.46	$50.91	$69.37	$87.82
Proposed	$33.59	$51.59	$69.58	$87.58
Difference	$1.13	$0.68	$0.21	($0.24)

The Table shows that, with few exceptions, the impact of moving to the proposed rate structure will have a monthly bill impact of less than one dollar ($1) per month. In some instances, bills actually decline under the proposed discount level. I find that the proposed change in the discount structure advanced by PAWC is reasonable and that it should be adopted.

Q. ASIDE FROM THE STRUCTURE OF THE DISCOUNT, HAVE YOU EXAMINED THE PROPOSED LEVEL OF DISCOUNTS?

A. Yes. In examining the bill discount levels, I first come to two general conclusions. First, I agree that PAWC discounts should continue to be offered on a tiered basis. What this entails is offering different discount levels based on different income ranges. As incomes decline, it requires a greater discount to achieve an affordable burden. Offering a tiered rate discount facilitates the objective of achieving an affordable burden. Second, I agree that PAWC continues to act reasonably in offering a four-tiered discount. The OCA has not only previously agreed to a four-tiered discount, but has recommended implementation of a four-tiered discount. That approach continues to be reasonable.

Given those two agreements, the issue which remains is whether the specific discount levels proposed by PAWC are appropriate given the objective of achieving an affordable burden. It is that issue to which I next turn.

Q. HAVE YOU INDEPENDENTLY EXAMINED THE SPECIFIC PERCENTAGE DISCOUNTS PROPOSED BY PAWC?

A. Yes. Again, I focus on the Zone 1 bills that would result from the rates proposed by PAWC in this proceeding. I use the annual bills at median usage for the 12 month period ending June 2025.[89] In calculating the resulting water burdens, I used the mid-point of each range of FPL for the year 2025.[90] In calculating incomes, I use the average household size for owner-occupied units for each zip code for which PAWC identified as comprising its service territory. To derive a systemwide burden, I weighted the burdens

[89] OCA-IV-23.

[90] The exception is for income below 50% FPL. My experience shows that using the mid-point for this tier understates typical income. Accordingly, I set the "mid-point" at 40% FPL.

for each zip code by the percent of total population in each FPL range. As in the 2024 PAWC rate case, I set the affordable burden at 2% of income for water and 1.5% for wastewater (3.5% for combination customers).

Q. WHAT DID YOU FIND?

A. The bill discount levels proposed by PAWC in this proceeding are reasonable. The water burdens under the discounts proposed in this proceeding remain at 2% for Tiers 2, Tier 3, and Tier 4, while being somewhat less for Tier 1 (1.5%). The wastewater burdens under the discounts proposed in this proceeding remain at 1.5% for Tier 2, Tier 3, and Tier 4, while being somewhat more for Tier 1 (1.6%). The combination burdens remain at 3.5% for Tier 2, Tier 3, and Tier 4, while being only 3.1% for Tier 1. Each of these results falls within a reasonable definition of an affordable burden.

I also find that, while the water burdens would be somewhat higher given the rates and discount levels proposed by PAWC in this proceeding, they would have been had the discount levels been applied to 2023/2024 bills using the same discount levels. The increase, however, is minimal (roughly two-tenths of one percent). While rates would increase as a result of this proceeding, the increase in incomes for each range of FPL over the same time period offsets any increase in burdens.

Part 7. BDP/AFP Cost Recovery.

Q. PLEASE EXPLAIN THE PURPOSE OF THIS SECTION OF YOUR TESTIMONY.

A. In this section of my testimony I address two proposals advanced by PAWC with respect to universal service cost recovery. First, PAWC proposes to switch the recovery of costs

incurred for its BDP and AFP programs to a reconcilable rider rather than including those costs in base rates. Second, PAWC proposes, by omission, an offset of 0% to prevent the double collection of arrearage forgiveness costs. Both of these proposals should be denied.

A. The Recovery of BDP/AFP Costs in Reconcilable Rider.

Q. PLEASE EXPLAIN THE PURPOSE OF THIS SECTION OF YOUR TESTIMONY.

A. In this section of my testimony, I examine the reasonableness of PAWC's proposal to recover its BDP and AFP costs through a reconcilable rider rather than including those costs in base rates. PAWC witness Chard states that "the Company is proposing a CAP rider for actual costs of the Company's customer assistance programs."[91] She states that "The CAP rider acts as a true-up mechanism: it either collects or refunds the difference between PAWC's CAP costs included in base rates and PAWC's actual CAP costs. CAP costs include PAWC's BDP discounts, AMP credits, RAPP stipends, and RAPP administrative costs."[92] I conclude that PAWC's proposed CAP Rider should be denied. These costs should be recovered in base rates.

Q. PLEASE EXPLAIN WHY PAWC'S PROPOSAL TO RECOVER BDP/AFP COSTS THROUGH A RECONCILABLE CAP RIDER SHOULD BE DENIED.

A. Allowing PAWC to collect its BDP/AFP costs on a stand-alone basis through the proposed reconcilable CAP Rider would isolate one element out of a multitude of

[91] PAWC St. 2, at page 30.

[92] Id., at 31.

elements that would be affecting PAWC customer rates. Without taking into consideration all other rate impacts of the changing level of BDP/AFP costs, it is not possible to determine the extent to which, if at all, PAWC's *total* cost of service had increased as a result of the increased BDP/AFP costs. It is thus not possible to determine what dollar amount of cost recovery would need to be reflected in any increase in rates through the proposed CAP Rider.

Consider, for example, that an increase in low-income customers in the BDP/AFP initiatives might yield an increase in the discount levels. However, that same increase would also result in other aspects of PAWC's costs that would decline. When comparing BDP/AFP participants to Identified Low-Income customers overall, PAWC data documents that: (1) the average arrears of accounts in arrears for BDP participants is lower than the average arrears for Identified Low-Income customers as a whole; (2) the percentage of BDP accounts in arrears was noticeably lower than the percentage of Identified Low-Income customer accounts in arrears as a whole; and (3) the number of disconnections (per 100 accounts) for BDP accounts was lower than the number of disconnections (per 100 accounts) for Identified Low-Income customers as a whole.

The results of these improved bill payment patterns, which are likely to improve even further given PAWC's proposal to adopt a "whole bill" tiered discount in this proceeding, are that any increase in BDP/AFP costs due to increased participation will be offset, in whole or part, by decreases in expenses such as the working capital associated with carrying arrears; by decreases in expenses associated with decreased credit and collection expenses; by decreased expenses associated with bad debt; or by the increased revenues

associated with decreased disconnections or more frequent (and more timely) reconnections after a disconnection.

Q. DO YOU PROPOSE A SPECIFIC OFFSET TO PAWC'S BDP/AFP COSTS IN THIS PROCEEDING?

A. Yes. The rationale for implementing such an offset is described in the next section of my testimony.

A consideration of all of these elements of PAWC's cost of service should be undertaken in deciding the extent of additional cost recovery, if any, that should be allowed based on the *net* change in expenses and revenues. It is not possible to determine that net change in expenses and revenues through a reconciliation that looks at only one of the multitude of factors. I recommend that PAWC should begin monitoring and reviewing the appropriate billing data for purposes of determining, in its next base rate proceeding, to what extent changes, if any, to the offset which I recommend below to the Company's low-income program cost recovery are reasonable to avoid the double recovery which the Company may receive through actual collections after the implementation of its BDP/AFP. The Company should consult with the OCA and the Commission's Bureau of Investigation and Enforcement (I&E), who is also an active party in this case, in assessing what changes, if any, to the offset proposed below are appropriate.

Q. IF THE ENERGY UTILITIES IN PENNSYLVANIA ARE ALLOWED TO RECOVER THEIR LOW-INCOME DISCOUNTS THROUGH RECONCILABLE RIDERS, WHY DO YOU RECOMMEND THAT PAWC CONTINUE TO

RECOVER THESE COSTS THROUGH BASE RATES WITHOUT RECONCILIATION?

A. Pennsylvania's energy utilities are allowed to collect their "universal service costs" through reconcilable rate riders because legislation explicitly allows them to do so. In contrast, in disapproving a reconcilable rider for the low-income discounts for Aqua PA, the Pennsylvania PUC explicitly found that the basis for allowing such reconcilable riders for energy utilities did not apply to water utilities.

Aqua PA was the first water/wastewater utility in Pennsylvania to propose a reconcilable rate rider for its low-income programming costs. That Aqua PA proposal was disapproved by the Commission. The PUC stated:

> [W]hen we established the reconcilable surcharge recovery mechanism for energy companies pursuant to the Energy Competition Acts, we concluded that, consistent with the direction given in the Energy Competition Acts, we must allow recovery through a surcharge that is either reconciled or adjusted frequently to track changes in the level of CAP costs. *See* OCA St. 5 at 44 (citing *Final CAP Investigatory Order* at 14-15). However, those energy riders that were approved under legislative mandate for . . . energy companies are not appropriate models upon which to base the cost recovery for Aqua's low-income water programs because there has been no legislative carve-out for water companies such as that which exists for energy companies.

(Docket R-2021-3027385, at 314 – 315). PAWC's proposal to collect certain BDP/AFP costs in base rates, but to use its proposed CAP Rider to reconcile actual BDP/AFP costs to the costs included in base rates, is no different from recovering those costs entirely through the Rider. For the same reasons that a Rider is inappropriate, the PAWC proposal is inappropriate as well.

Q. WHAT DO YOU RECOMMEND?

A. I recommend that the PAWC proposal to establish a reconciliation process for its BDP/AFP costs should be denied.

B. A Cost Offset to Prevent the Double Recovery of AFP Costs.

Q. HAVE YOU REVIEWED PAWC'S PROPOSAL TO ESTABLISH A $0 OFFSET TO ARREARAGE FORGIVENESS CREDITS?

A. Yes. The Company proposes to establish a CAP Rider through which to reconcile its BDP/AFP costs. In this proposal, the Company proposes to establish a Rider with a $0 offset by omission. The CAP Rider, in other words, does not include an offset, effectively setting the offset to $0.

Q. PLEASE IDENTIFY THE CONTEXT OF YOUR REVIEW OF THE COMPANY'S PROPOSAL TO ESTABLISH A RECONCILABLE RIDER WITHOUT CONSIDERATION OF THE AMOUNT OF AN OFFSET THAT WOULD BE NECESSARY AND REASONABLE.

A. In considering the recovery of arrearage forgiveness costs, the Pennsylvania Commission has previously determined:

> Regarding arrearage forgiveness costs, it is not possible to make a definitive ruling as to the entire amount of these costs. There is some merit in reasoning that arrearage forgiveness amounts should not be recovered separately because these are amounts that, but for the existence of the CAP program, would be included within the utility's claim for uncollectible expenses. *The law requires "full recovery" of CAP costs, but not "double recovery."* At the same time, utilities should have the opportunity to demonstrate when they seek to establish a surcharge that arrearage forgiveness costs are not completely covered by uncollectible expenses. *The utilities should bear the burden of proving that allowing recovery of their claim for arrearage*

forgiveness costs will not give them double-recovery of these costs. (emphasis added).[93]

Q. HAS THE COMPANY CARRIED ITS BURDEN OF PROOF TO DEMONSTRATE THAT THE OFFSET IS NOT NECESSARY TO PREVENT THE DOUBLE COLLECTION OF COSTS?

A. No. It is important to remember that PAWC bears the burden of proof to justify its new offset proposal. PAWC has not carried its burden of proof to demonstrate that an offset of $0 is appropriate.

Q. HAS THE COMMISSION RECOGNIZED THE POTENTIAL, IF NOT THE LIKELIHOOD, OF THE DOUBLE RECOVERY OF COSTS WITHOUT INCLUDING A UNIVERSAL COST OFFSET?

A. Yes.[94] The Commission has made the same distinction I now make. The distinction is between preventing the "double-recovery" of bad debt on the one hand, and accounting for reductions in bad debt (*i.e.*, "savings") on the other hand. The offset credit which I proposed below is not related to a projected reduction in bad debt expense and is thus not related to any estimate of "savings." The offset is instead intended to "offset" the potential for the double recovery of costs.

---

[93] Customer Assistance Programs: Funding Levels and Cost Recovery Mechanisms, Final Investigatory Order, at 38 - 39 (October 19,2006.

[94] Customer Assistance Programs: Funding Levels and Cost Recovery Mechanisms, Final Investigatory Order, at 25 (October 19,2006). ("we believe that the issue of savings resulting from CAPs should be addressed on a case-by-case basis when utilities establish their surcharges. The Commission will make a decision regarding CAP savings based upon the evidence in each case. We will not adopt a formula for cost savings.")

Q. IS A UNIVERSAL SERVICE COST OFFSET COMMON IN PENNSYLVANIA UTILITY TARIFFS RELATING TO THE RECOVERY OF UNIVERSAL SERVICE COSTS THROUGH A RECONCILABLE SURCHARGE?

A. Yes. While the amount and structure of the offsets vary between Pennsylvania utilities, the tariffs setting forth universal service riders for virtually every utility operating a universal service program incorporates such an offset. Different energy (gas and electric) utilities have different cost recovery for similar discount programs. Of the PUC-regulated energy utilities, eleven of the twelve gas and electric utilities in Pennsylvania have offsets to one degree or another.

Universal Service Cost Offsets: Pennsylvania Gas and Electric Utilities (2025)

Natural gas utility	Offset amount	Electric utility	Offset amount
Columbia Gas	7.5%	Duquesne	10.43%
NFG	$35/participant	Met Ed	15%
PECO (gas)	27%	PECO (electric)	27%
UGI (gas)	9.2%	Penelec	14.7%
Peoples Gas	4.7%	PennPower	14.3%
		West Penn Power	13.5%

Moreover, even though not regulated by the state PUC, the Philadelphia Water Department (PWD), a municipal water utility also adopted this principle applied to its arrearage forgiveness. The PWD is rate regulated by the Philadelphia Water, Sewer, and Storm Water Rate Board ("Rate Board"). PWD offers an Arrearage Forgiveness Program. In litigating the cost recovery for that AFP, PWD (through its witness Black and Veatch) stated that: "The proposed AF-Factor is intended to allow the Water

Department the ability to recover a *portion* of the costs (in dollars) of providing arrearage forgiveness to eligible TAP Customers." (emphasis added). Black and Veatch continued:

> At the time of the annual TAP-R reconciliation, [arrearage forgiveness] will be determined based upon the actual amount of arrears forgiven in accordance with Section 206.7 of the Water Department's regulations. The total amount of arrearage forgiveness included in determining the TAP-R surcharge rates will be adjusted by applying a proposed TAP Lost Revenue Adjustment Factor of 9%." The "lost revenue adjustment factor of 9%" is an acknowledgement of the fact that PWD would fail to collect 91% of the billed revenues included in the pre-program arrears even in the absence of the TAP arrearage forgiveness.

Ultimately, the Rate Board decided to exclude even the 9% recovery. The Hearing Officer decision, subsequently adopted by the Rate Board, found:

> I find that the Public Advocate has established that PWD's proposal to recover the TAP arrearage forgiveness costs through the TAP-R rider may overcharge customers. PWD is correct when it states (Main Brief at 56) that collection factors are "used to project future revenues from billings so as to provide sufficient revenues to support the utility. Collection factors are not intended to collect on prior unpaid bills or outstanding arrears." It is not correct, however, when it asserts that without the TAP-R Rider, it would have no way to recover past due amounts associated with TAP customers. *The revenue requirement associated with these customers are already reflected in the cost of service, and thus base rates.*
>
> In concept, the PWD proposal to recover a portion of each dollar of arrearage forgiveness provided by the Department to eligible TAP customers through the TAP-R rider is appropriate. It failed, however, to rebut the Public Advocate's showing that the collection factors used in this proceeding to project anticipated revenue already 'take into account payments (and lack of payments) associated with accounts of both TAP and non-TAP customers.'[95]

[95] Hearing Officer Report, at page 52 (May 18, 2021).

Q. GIVEN YOUR DISCUSSION ABOVE, PLEASE EXPLAIN THE BASIS FOR YOUR FINDING THAT PAWC WILL DOUBLE-RECOVER COSTS IN THE ABSENCE OF THE OFFSET WHICH YOU RECOMMEND.

A. I first begin with the recognition that, without the existing offset, PAWC would include 100% of its projected BDP/AFP credits in base rates. The next question, therefore, is that given that 100% of the BDP credits and 100% of the arrearage forgiveness credits are included in base rates, has some portion of those credits *previously* been included in the revenue requirement underlying base rates at a point in time before the customer enrolled in BDP/AFP? If the answer to that question is "yes," without providing an offset, PAWC will collect that portion of BDP credits and arrearage forgiveness credits twice: once through the revenue requirement underlying base rates and again through the credits that are separately included.

What is *not* the question is whether BDP/AFP causes a *reduction* in write-offs, *i.e.*, whether there is a savings. That is simply not the issue. The *only* question is whether some portion of BDP credits and arrearage forgiveness credits has been included in the revenue requirement underlying base rates outside the BDP/AFP programs.

The answer to that question is "yes." Accordingly, without adopting an offset (which has been adopted by 11 of Pennsylvania's 12 energy utilities with the sole exception being the utility which is a cash flow utility), there will be a double recovery of those costs.

Q. PLEASE PROVIDE THE DATA WHICH IDENTIFIES THE AMOUNT OF ARREARS WHICH LOW-INCOME CUSTOMERS BRING INTO THE AFP WHEN THEY FIRST ENROLL.

A. Customers who enroll in PAWC's BDP overwhelmingly bring pre-existing arrears into the program. According to PAWC data, 83% (7,899 of 9,537) of new BDP enrollees had an arrearage at the time they entered the program.[96] Moreover, the level of pre-existing arrears being brought into the program is substantial. Table 16 above presents the average pre-program arrears that PAWC's new enrollees bring into the program at the time they enroll in AFP for the months October 2024 through November 2025. The lowest monthly arrears during that time frame was $922.58 (January 2025), while the highest ranged up to $1,437.14 (April 2025) and $1,437.06 (March 2025). Table 16 shows that in only two months did the pre-existing arrears fall below $1,000, while in seven months, the pre-existing arrears exceeded $1,200.

Given PAWC's proposal to pursue rate recovery of its arrearage forgiveness credits with an offset of $0, the question with respect to arrearage forgiveness, therefore, is whether it is reasonable to find that *none* of those pre-existing arrears being brought into AFP were included in the Company's revenue requirement prior to the customer enrolling in BDP/AFP.

Q. WHAT DO YOU KNOW ABOUT THE AGING OF ARREARS FOR LOW-INCOME CUSTOMERS NOT PARTICIPATING IN CAP?

A. Not only are substantial numbers of low-income customers in arrears, but there are substantial numbers of low-income customers with very old arrears. Exhibit RDC-3 presents monthly data on the aging of arrears for Identified Low-Income customers for the months of January 2023 through November 2025. Part 1 of Exhibit RDC-3 presents

[96] OCA-012-005.

the aging of arrears by number of accounts in arrears, while part 2 of Exhibit RDC-3 presents the aging of arrears in terms of dollars of arrears.

According to PAWC's own data, in January, an increasing number of Identified Low-Income customers (excluding BDP participants) had an arrearage of 151 days overdue or more. In January 2023, there were 12,840 low-income customers (excluding BDP participants) falling into this aging range, while the number had increased to 13,582 by January 2024. It increased even further to 15,204 by January 2025.

The long-term arrears carried by PAWC's low-income customers (excluding BDP participants) does not appear to be seasonal. Low-income customers had a balance on their PAWC bills of 151 days or older of 12,576 in August 2023, which increased to 14,072 by August 2024. It increased even further to 17,393 by August 2025.

A similar result –that of substantial and ongoing very old low-income arrears—can be seen in the data on the aging of arrears by dollars. In January 2023, PAWC carried $9.584 million in arrears 151 days older or more for Identified Low-Income customers (excluding BDP participants), while in January 2024, that balance was $8.512 million. In January 2025, the long-term low-income arrears had increased back to $9.214 million. Similar results for arrears aged 151 days overdue or more are seen in other months.

Q. HOW IS THIS DATA RELEVANT TO THE UNIVERSAL SERVICE OFFSET WHICH PAWC PROPOSES TO SET AT $0?

A. Setting the cost offset at $0, as proposed by PAWC would necessarily assume that even though more than 80% of new BDP enrollees since 2023 enrolled with a pre-existing arrears, *none* of those arrears resulted in a contribution to PAWC's revenue requirement

in the form of bad debt prior to the time customers enrolled in BDP. That is a clearly erroneous assumption. As I noted above, the issue presented by the BDP offset is *not* whether BDP results in a reduction in the dollar amount or age of low-income arrears. Whether such a reduction occurs is not relevant to whether there should be an offset or what the level of that offset should be. The *only* issue presented by the offset is whether, prior to enrolling in BDP, some portion of the bills of low-income customers who will later enroll in BDP were included in revenue requirement.

Q. WHAT DO YOU KNOW ABOUT THE DISCONNECTIONS OF LOW-INCOME CUSTOMERS AND THE ARREARS AT THE TIME OF DISCONNECTION?

A. From January 2023 through November 2025, PAWC disconnected a substantial number of low-income accounts. Exhibit RDC-4 documents that in that time period, PAWC reports having disconnected 19,077 Identified Low-Income accounts. Those accounts carried an aggregate of $14.029 million in arrears at the time of disconnection, an average arrears of $735 at the time of disconnection. Roughly one-in-three of PAWC customers that are disconnected are never reconnected.[97]

The rate of disconnections for low-income customers relates to the issue of whether the Company's proposal to establish an offset of $0 is reasonable. The Company's proposal to set an offset of $0 assumes that the Company would have disconnected more than 19,000 accounts, owing nearly $14 million at the time of disconnection, with one-in-three of those disconnected customers never being reconnected, while having that action result

[97] 2024 Residential Collections Data Report, at page 22, available at https://www.puc.pa.gov/media/3524/2024-residential-collections-data-report-final.pdf

in *no* impact on the extent to which uncollectibles would have been included in PAWC rates attributable to low-income customers.

Q. WHAT DO YOU RECOMMEND FOR PAWC'S ARREARAGE FORGIVENESS CREDITS?

A. I begin my recommendation by noting again that the PUC has previously held, in unambiguous terms, that "*The utilities should bear the burden of proving that allowing recovery of their claim for arrearage forgiveness costs will not give them double-recovery of these costs*." (emphasis added).[98] As I discuss above, PAWC has not only failed to meet this burden of proof, it has offered no evidence at all in an effort to meet this burden of proof. Accordingly, I recommend that PAWC's request for cost recovery of its AFP credits be denied.[99] This recommendation does not, however, extend to the recovery of PAWC's BDP credits. Nor would it preclude PAWC filing for recovery of AFP costs in a future rate proceeding with an appropriate evidentiary record on how to prevent the double recovery of these costs.

Q. WHAT DO YOU CONCLUDE?

A. PAWC's proposal to establish a universal service offset of $0 is unreasonable. That proposal should be rejected. The recommendation I advance above should be adopted.

[98] Customer Assistance Programs: Funding Levels and Cost Recovery Mechanisms, Final Investigatory Order, at 38 - 39 (October 19,2006.

[99] OCA-11-010.

Part 8. PAWC's Proposed "Deduct Adjustment."

Q. PLEASE EXPLAIN THE PURPOSE OF THIS SECTION OF YOUR TESTIMONY.

A. In this section of my testimony, I examine the impacts of PAWC's proposed "Deduct Adjustment" on low-income customers.

My understanding of the "deduct adjustment" proposal is based on the testimony of PAWC witness Max McClellan. Under the proposal, a PAWC customer's wastewater bill is based on average winter usage. PAWC argues that winter usage accurately reflects indoor consumption. Winter months' wastewater usage will be reflected by actual metered water usage in the winter months. For the non-winter months, PAWC will use whichever is less: the actual metered water usage for the month or the average water consumption for that customer in the winter months.[100]

As is evident, in other words, the "deduct adjustment" proposal is substantially the same as the prior "winter averaging" proposal repackaged under a new name. I conclude that just as the "winter averaging" proposal would have had an adverse impact on low-income customers, so, too, will the "deduct adjustment" proposal generate adverse impacts in much the same fashion. PAWC's Deduct Adjustment rate design proposal is likely to result in a transfer of costs from higher-income customers to lower-income customers served by PAWC.

[100] PAWC St. 10, at page 25.

Q. IS THERE A STRUCTURAL FLAW IN PAWC'S PROPOSED DEDUCT ADJUSTMENT PROPOSAL?

A. Yes. The structural flaw in PAWC's proposal lies first with its limitation of "winter" to the months of January, February, and March.[101]

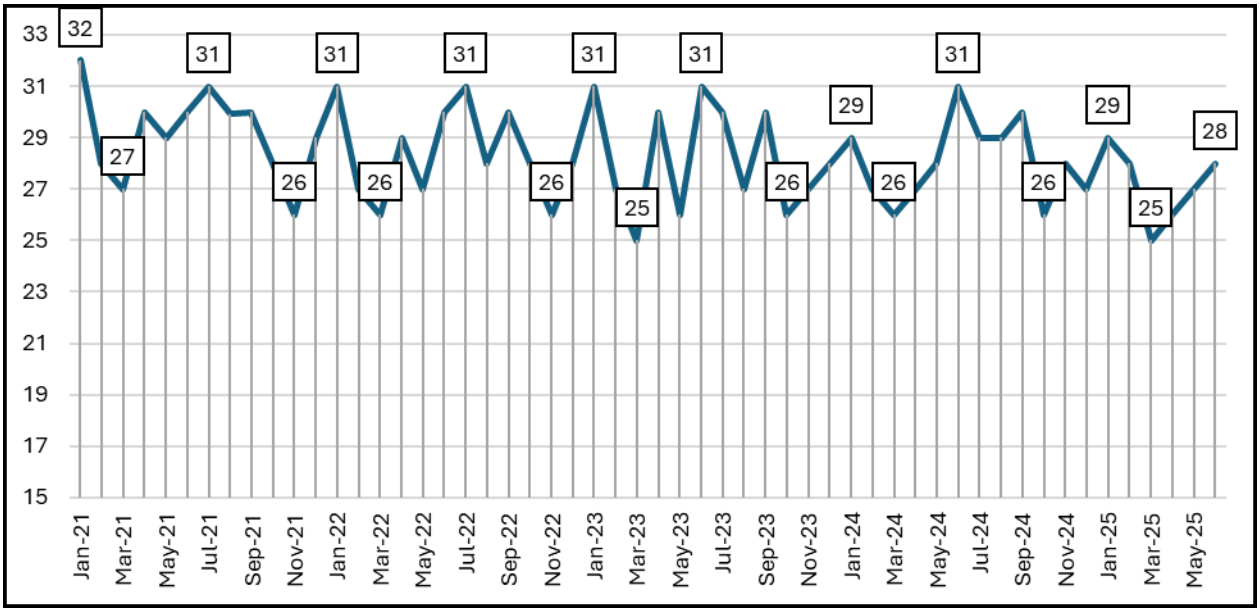
Q. IS THERE A SUBSTANTIAL SEASONAL VARIATION IN WATER USAGE BY MONTH IN THE PAWC SERVICE TERRITORY?

A. No. Figure 7 sets forth the median water consumption by month for the time period January 2021 through June 2025. While there is monthly variation for both low-income customers and residential customers generally, that variation does not evidence the seasonal variation which PAWC identifies. Figure 7 shows that the maximum median monthly residential usage during the study time period was 3,200 or 3,100 gallons per month. That maximum usage occurred in the months of January 2021 (3,200 gallons per month), July 2021 (3,100 gallons per month), January 2022 (3,100 gallons per month), July 2022 (3,100 gallons per month), January 2023 (3,100 gallons per month), and June 2023 (3,100 gallons per month). In contrast, the minimum median monthly residential usage reported by PAWC was either 2,500, 2,600, or 2,700 gallons per month. The Figure shows that those minimums occurred in March 2021 (2,700), November 2021 (2,600), March 2022 (2,600), November 2022 (2,600), March 2023 (2,500), October 2023 (2,600), March 2024 (2,600), October 2024 (2,600 gallons per month), and March 2025 (2,500 gallons per month). Contrary to PAWC's rationale for its Deduct

[101] PAWC St. 10, at page 26.

Adjustment proposal, in other words, the highest usage was not necessarily in the non-winter months and the lowest usage was not necessarily in the winter months.

Figure 7. Median Residential Usage by Month (hundred gallons) (Jan 2021 – June 2025) (OCA-04-023)



Q. HAVE YOU HAD OCCASION TO REVIEW PAWC WATER BILLS (RATHER THAN USAGE AS DISCUSSED ABOVE) DURING THE WINTER AND NON-WINTER MONTHS?

A. Yes. Data provided by PAWC indicates that there is not a substantial variability in residential water bills (and thus in residential consumption) between the three winter months (as defined by PAWC) and the remaining nine months (deemed to be "non-winter months"). PAWC provided median residential water bills by month for the months January 2021 through June 2025.[102]

[102] OCA-04-023, OCA-04-024.

The three-month average median bill (i.e., the average of the median bills for January through March) did not substantially differ from the average of the median bills for the remaining nine months. The data is set forth in Table 22. While the non-winter median residential bills were higher than the median bills for the three winter months, the increase was minimal. I conclude that PAWC's use of the three months of January/February/March as the study period for PAWC's Deduct Adjustment proposal is flawed. At a minimum, I conclude that PAWC should refile its Deduct Adjustment proposal in its next base rate case with appropriate adjustments to its study period. I also suggest an alternative approach that would accomplish the same objectives without facing the difficulties I have identified in this testimony.

Table 22. Median Residential Bills (January 2021 – May 2025)
(3 winter months vs. 9 non-winter months)
(OCA-04-023)

	3 Winter Months	Remaining 9 Non-Winter Months
Calendar Year 2021	$86.90	$87.39
Calendar Year 2022	$84.59	$85.87
Calendar Year 2023	$83.82	$85.36
Calendar Year 2024	$83.06	$84.82
Calendar Year 2025 (YTD June)	$83.05	$82.29

Q. DO YOU HAVE CONCERNS ABOUT HOW THE "DEDUCT ADJUSTMENT" PROCEDURE MAY DISPROPORTIONATELY HARM LOW-INCOME CUSTOMERS?

A. Yes. As I demonstrate below, low-income customers are less likely to be residents of homes with substantial outdoor summer consumption. As a result, low-income customers will be less likely to have their summer wastewater bills capped at a lower

level than those bills historically have been. These customers, in other words, will fall within that population of customers who are called upon to bear the burden of the foregone revenue from having non-water bills capped, with little opportunity to be a recipient of any of the reduced bills.

There is little question but that low-income customers in the PAWC service territory are less likely to be residents of single family homes with substantial outdoor water consumption affected by the winter averaging proposal. While the Census Bureau does not directly report the number of units per housing structure disaggregated by income, it does provide data that allows me to reach conclusions about the relationship between dwelling types and income. Within the PAWC's service territory, nearly 95% of homeowner units are comprised of single-family homes (82% single-family detached homes; 12% single-family attached homes).[103] When two-family homes are also considered, the percentage increases to more than 95%. In contrast, fewer than 40% of rental units are single-family homes (including both attached homes and detached homes).

I then examined the relationship between rental status and income. Only 4.2% of owner-occupied homes are occupied by households with an annual income less than $15,000.[104] In contrast, more than 62% of households with an annual income of less than $15,000 live in rental housing.[105] Clearly, when PAWC identifies its population of customers

[103] American Community Survey (5-year data), Table B25032, 2021.

[104] American Community Survey (5-year data), Table B25118, 2021.

[105] Id.

who have "water usage that is used for outdoor purposes in the summertime (e.g., watering lawns, filling pools, etc.)," it is identifying a higher income population. Even if incomes are considered up to $35,000, more than half of those households are renters rather than homeowners.[106]

Q. WHAT DO YOU RECOMMEND?

A. I recommend that the "deduct adjustment" proposal of PAWC be disapproved in this proceeding. The analysis which PAWC presents in support of its proposal is sufficiently flawed that it should not be used to adopt a proposal in this proceeding. Should PAWC wish to re-file its proposal in a future base rate proceeding, it should do so with an appropriate factual foundation.

Moreover, in filing a new proposal, PAWC should be required to estimate the impacts on remaining wastewater customers arising from the loss of revenue from customers who receive lower bills attributable to the re-filed proposal. This estimated impact should devote particular attention to the impact of the proposal on low-income customers who are less likely to have outdoor water use and, as a result, would be more likely to bear the brunt of the reallocated wastewater costs.[107]

---

[106] Id.

[107] This recommendation is similar to the agreement reached between OCA and PAWC in the recent proceeding through which PAWC acquired Community Utilities of Pennsylvania, Inc. (CUPA). That Settlement provided: "Within 12 months of Closing, but prior to the first general rate increase request which includes CUPA's system assets, PAWC will conduct an evaluation of a wastewater deduct meter pilot program for CUPA's Utilities, Inc. of Pennsylvania Chester County (former Utilities, Inc. of Pennsylvania Division) service territory. The evaluation may assume that (1) the pilot program will be voluntary and/or (2) the customer using the deduct meter will provide a contribution in aid of construction for the cost of the deduct meter, its installation, and related plant in service accounts. This evaluation should estimate the costs to PAWC to implement the program, estimate the number of customers who may benefit from enrollment in the program within the studied system, estimate the costs to

I do understand, however, that customers have a legitimate concern about not paying for wastewater service on water consumption that does not flow through the wastewater system. I further agree that the water usage which is not flowing through the wastewater system is more likely than not to involve outdoor water usage. Accordingly, I recommend that as an alternative to addressing this issue through a rate structure proposal, PAWC be directed to work with OCA to assess the cost, feasibility, and practicality of offering customers the opportunity to request the installation of separate meters limited to measure the customer's outdoor water consumption.

Part 9. Impact of Management Performance on Equity Return.

Q. PLEASE EXPLAIN THE PURPOSE OF THIS SECTION OF YOUR TESTIMONY.

A. In this section of my testimony I respond to the Company's proposal that its return on equity be set at an upper range to reflect the superior performance of PAWC management. PAWC witness Chard states that "Both Ms. Bulkley and I recommend that the Commission adopt a rate of return on equity of 10.95% – at the upper end of Ms. Bulkley's range – in recognition of PAWC's superior management performance. . ."[108] I find that there is sufficient evidence of a lack of appropriate "management performance"

customers to install and maintain a deduct meter (if applicable), estimate the potential bill savings that the customers would experience, and estimate the effect on other customers' rates due to the adjustment to billing determinants. PAWC will provide the written evaluation to the OCA and OSBA at the time of completion and, upon request, will produce the same in discovery in the first general rate increase request which includes CUPA's system assets." Joint Petition for Approval of Unanimous Settlement of All Issues, Docket No A-2025-3055551, at para. 42 (December 23, 2025). The settlement is currently being reviewed by the assigned Administrative Law Judge.

[108] PAWC St. 2, at page 23.

to deny this request. I recommend that the testimony of OCA witness Garrett instead be adopted.

Q. WHAT IS THE FIRST ASPECT OF MANAGEMENT PERFORMANCE THAT YOU HAVE REVIEWED?

A. The first area I consider is the extent to which PAWC has successfully identified its low-income customer population. If PAWC does not know who its low-income customers are, it will be difficult to target outreach to its low-income customers promoting new enrollment in the Company's Bill Discount Program (along with the corresponding arrearage forgiveness provisions). I discussed these failures in detail above. While the Company estimates that it has 150,503 low-income customers, it has identified only 16,091 (10.4%). The only way that PAWC appears to identify its low-income customers is through the enrollment of those customers in its BDP (15,813 enrollment).[109] The Company has developed no mechanism to identify roughly 90% of the low-income customers in its service territory. As a result, it cannot target such customers with conservation investments where appropriate; cannot target such customers with outreach for budget billing where levelized bills might help; cannot target such customers with appropriate payment arrangements (whether in terms of downpayments, installment payments, or terms of the arrangement); and cannot identify payment-troubled low-income customers who might benefit from enrollment in the BDP with its arrearage forgiveness provisions. By its inattention to identifying its low-income customers, PAWC locks itself into what the Commission has previously found to be the "wasteful

[109] See, Table 6, supra, and accompanying text.

cycle of consecutive, unrealistic payment agreements that cannot be kept, despite the best of intentions, followed by service termination, then restoration, and then more unrealistic agreements. . .”[110] That Commission decision was 35 years ago, and yet PAWC continues to fail to even identify its low-income customers.

Q. WHAT IS THE SECOND FACTOR YOU HAVE EXAMINED?

A. PAWC continues to offer deferred payment arrangements to low-income customers which are largely ineffective at providing an opportunity for those customers to retire their arrears. As I explain above, during the period January 2023 through November 2025, PAWC entered into 93,326 payment arrangements with Identified Low-Income customers, 18,910 of those payment arrangements defaulted.[111] Nonetheless, it raises a legitimate question why PAWC would insist on entering into payment arrangements in nearly 19,000 cases over less than a three year period when those arrangements are likely to default.

From a management perspective, however, it is the failure to respond to this high level of defaults to determine why those defaults occur and thus to examine what the Company might do differently to improve its performance. PAWC was specifically asked to “provide a single copy of any report, evaluation, study or other written document of any nature, within the custody or control of the Company, whether or not prepared by or for

[110] Pennsylvania Public Utility Commission v. Columbia Gas of Pennsylvania, R-891468, Final Order, at 159 (September 19, 1990).

[111] OCA-IV-06. As I noted above, this is not to say that the remaining payment arrangements were successfully completed. It is instead to be noted that those arrangements entered into in more recent months have not yet had sufficient time to default or be successfully completed.

the Company, identifying, evaluating or otherwise discussing why residential customers do not successfully complete deferred payment plans. . .in order to avoid the disconnection of service for nonpayment." PAWC responded simply that "The Company does not have documents that assess why residential customers do not successfully complete deferred payment plans in order to avoid the disconnection of service for nonpayment."[112] PAWC is entering into tens of thousands of payment arrangements which default, in other words, and yet has made no effort to determine why, or to examine what might be done differently to improve its performance.

Q. IS THERE A THIRD FACTOR YOU HAVE EXAMINED?

A. Yes. I have examined PAWC's reliance on the disconnection of service to control its unpaid bills. As I noted above, from December 2023 through November 2025, PAWC disconnected service to 297,000 Identified Low-Income customers. In relative terms, in the three years 2023 through 2025,[113] PAWC disconnected its Identified Low-Income customers at a rate of five to more than six times higher than it disconnected residential customers as a whole. Stating that PAWC sends out disconnection notices in its effort to collect does not address the management failure. I acknowledge that during the same three year period I examined for nonpayment disconnections, PAWC issued 290,000 disconnection notices.[114] For every one nonpayment disconnection PAWC pursues, in other words, it issues 15 disconnect notices.

---

[112] OCA-04-032.

[113] For purposes of this discussion, a "year" is defined as the twelve months ending in November. In this manner, complete heating seasons are retained.

[114] OCA-04-006.

That does not mean that PAWC's disconnection notices are generating payments to prevent nonpayment disconnections. A significant number of the Company's identified low-income customers maintain arrearage balances of 91 days or more, despite receiving disconnection notices. Table 23 sets forth the data. The Table shows that despite the disconnection notices that PAWC sends out each month:

- In Calendar Year 2023, PAWC carried an average of 8,055 Identified Low-Income customers with arrears that were 91 days old or older, while carrying 4,903 Identified Low-Income customers with arrears that were age 151 days or older;
- In Calendar Year 2024, PAWC carried an average of 8,188 Identified Low-Income customers with arrears that were 91 days old or older, while carrying 5,060 Identified Low-Income customers with arrears that are age 151 days or older; and
- In Calendar Year 2025 (YTD November), PAWC carried an average of 8,165 Identified Low-Income customers with arrears that were 91 days old or older, while carrying 4,897 confirmed low-income customers with arrears that were 151 days or older.

Table 23. Number of Identified Low-Income Accounts in Arrears by Selected Aging Buckets (OCA-04-16)

Month and Year	91 to 150 days overdue	151 days overdue or more	91+ days overdue
Jan 2023	3,350	5,235	8,585
Feb 2023	3,464	5,005	8,469
Mar 2023	3,491	4,879	8,370
Apr 2023	2,752	4,802	7,554
May 2023	2,590	4,820	7,410
Jun 2023	2,956	4,642	7,598
Jul 2023	2,922	4,560	7,482
Aug 2023	3,264	4,680	7,944
Sep 2023	3,199	4,724	7,923
Oct 2023	3,162	5,154	8,316
Nov 2023	3,363	5,074	8,437
Dec 2023	3,311	5,259	8,570
Jan 2024	3,265	5,326	8,591
Feb 2024	3,406	5,162	8,568
Mar 2024	3,249	5,261	8,510
Apr 2024	2,744	5,099	7,843
May 2024	3,006	4,994	8,000
Jun 2024	2,901	4,903	7,804
Jul 2024	3,040	4,860	7,900
Aug 2024	3,106	4,806	7,912
Sep 2024	2,726	4,837	7,563
Oct 2024	3,172	4,961	8,133
Nov 2024	3,384	5,139	8,523
Dec 2024	3,529	5,374	8,903
Jan 2025	4,021	5,357	9,378
Feb 2025	4,005	5,404	9,409

Mar 2025	4,114	5,673	9,787
Apr 2025	4,213	5,796	10,009
May 2025	3,266	4,375	7,641
Jun 2025	2,624	3,878	6,502
Jul 2025	2,538	4,112	6,650
Aug 2025	2,506	4,355	6,861
Sep 2025	2,726	4,765	7,491
Oct 2025	2,986	5,004	7,990
Nov 2025	2,954	5,148	8,102

Not only are PAWC disconnection notices ineffective in preventing the disconnection of service for nonpayment, the notices are also ineffective at prompting payments that reduce long-term arrears.

Q. WHAT IS THE MANAGEMENT IMPLICATION OF THE INEFFECTIVENESS OF DISCONNECT NOTICES?

A. The management implication regarding disconnection notices is not only a recognition of PAWC's continued reliance on a collection process that is demonstrably ineffective or that reliance on an ineffective collection practice evidence of management inefficiency and ineffectiveness. It is also the failure to consider or address the reason *why* the practice is ineffective that demonstrates less than superior management performance.

PAWC's management inattention to the problem was conceded in response to discovery. PAWC was specifically asked to "provide a single copy of any report, evaluation, study or other written document of any nature, within the custody or control of the Company, whether or not prepared by or for the Company, dated within the past five years, identifying, evaluating or otherwise discussing why nonpaying residential customers do

not make contact with the utility when, in response to bill nonpayment, those nonpaying customers receive a request or notice to contact a utility to avoid the disconnection of service." PAWC responded simply that: "The Company does not have documents that assess why nonpaying residential customers do not make contact with the utility when, in response to bill nonpayment, those nonpaying customers receive a request or notice to contact a utility to avoid the disconnection of service."[115]

As I have established throughout, this management inattention results not only in adverse impacts to the low-income customers, but also results in adverse rate impacts to all other customers, both in the form of increased expenses and foregone revenue.

Q. HAVE YOU CONSIDERED A FINAL FACTOR IN YOUR EXAMINATION OF MANAGEMENT PERFORMANCE?

A. Yes. I have examined the way in which PAWC has implemented Pennsylvania's winter shutoff moratorium. Under Pennsylvania law, a water utility (including PAWC) may not disconnect service to a customer with income at or below 250% FPL during the time period December 1 through March 31 of each winter heating season without the prior approval of the Commission. Notwithstanding this prohibition on cold weather terminations to customers with income at or below 250% FPL (without prior PUC approval), PAWC continues to issue disconnection notices to Identified Low-Income customers warning of an impending nonpayment disconnection.

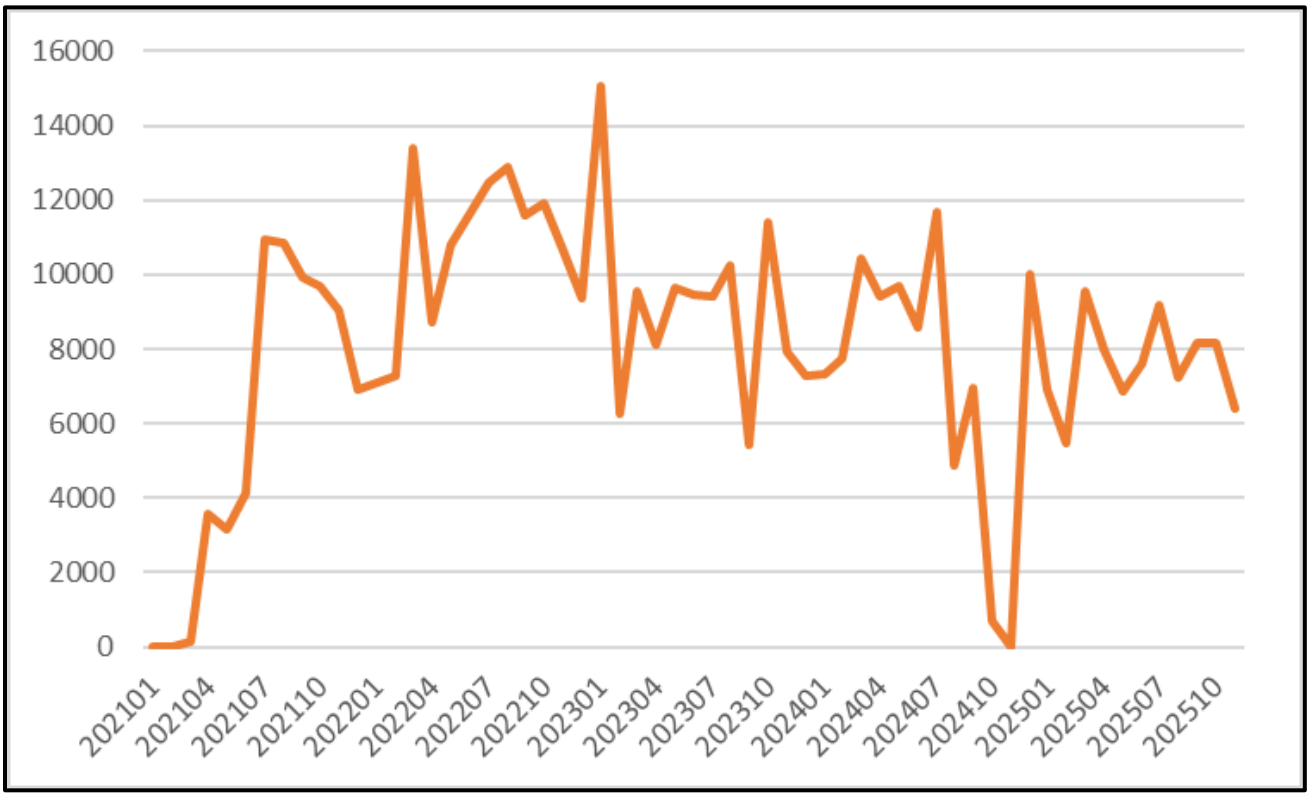
[115] OCA-04-031.

The data represented in Figure 8 shows that PAWC routinely issues notices of nonpayment disconnection to identified low-income customers during the period of the year when such disconnections are specifically banned without the approval of the Commission. According to the data:[116]

- 40,242 disconnect notices were issued to confirmed low-income customers from December 2022 through March 2023;
- 32,784 disconnect notices were issued to confirmed low-income customers from December 2023 through March 2024; and
- 31,925 disconnect notices were issued to confirmed low-income customers from December 2024 through March 2025.

[116] OCA-04-006.

Figure 8. Number of Notices of Disconnection for Nonpayment Issued to Confirmed Low-Income Customers (January 2021 – November 2025) (OCA-04-006)



Q. WHAT PROBLEM HAVE YOU IDENTIFIED?

A. Despite the fact that nonpayment disconnections of customers with income of 250% FPL or less are barred by law, PAWC continues to issue disconnection notices warning of an impending disconnection in the absence of a customer payment. A copy of an illustrative PAWC residential notice of disconnection[117] is attached as Exhibit RDC-5. The illustrative shutoff notice provided is dated December 8, 2025, within the winter moratorium period. It is important to note that the PAWC shutoff notice states as follows (amongst other things):

[117] OCA-03-08.

- "If payment is not received, your service may be shut off on or after 12/08/25." and
- In all capital letters, the shutoff notice states: "TO STOP THE SHUT OFF, YOU MUST PAY THE AMOUNT OVERDUE OR YOU MUST CALL US AT 1-855-669-8753 IF: (1) you cannot pay the overdue amount and would like to discuss your eligibility to enter into a payment arrangement; (2) You dispute the overdue amount or have a question regarding your bill."

No mention is made in the shutoff of the availability or protections offered by the winter shutoff moratorium.

This represents a serious management failure. PUC regulations explicitly provide that "A public utility may not threaten to terminate service when it has no present intent to terminate service *or when actual termination is prohibited under this chapter*. Notice of the intent to terminate shall be used only as a warning that service will in fact be terminated in accordance with the procedures under this chapter, unless the customer or occupant remedies the situation which gave rise to the enforcement efforts of the public utility."[118] The regulation states that "Use of termination notice solely as collection device [is] prohibited."[119]

Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

A. Yes, it does.

[118] 52 Pa. Code § 56.99.

[119] Id.

Exhibit RDC-1: Summary Vitae

Roger Colton
Fisher, Sheehan & Colton
Public Finance and General Economics
Belmont, MA

* * * * * * * * * * * * * * * * * * * *

Education:

J.D. (Phi Kappa Phi, Order of the Coif) University of Florida (1981)

M.A. (Regulatory Economics), McGregor School, Antioch University (1993)

B.A. Iowa State University (1975) (journalism, political science, speech)

Professional Experience:

Licensed to practice law in Iowa (1981 to present)

Fisher, Sheehan and Colton, Public Finance and General Economics: 1985 – present.

As a co-founder of this economics consulting partnership, Colton provides services in a variety of areas, including regulatory economics, poverty law and economics, public benefits, fair housing, community development, energy efficiency, utility law and economics (energy, telecommunications, water/sewer), government budgeting, and planning and zoning.

Colton has testified in state and federal courts in the United States and Canada, as well as before regulatory and legislative bodies in more than forty (40) states. He is particularly noted for creative program design and implementation within tight budget constraints.

Professional Affiliations:

Past Chair:	Belmont Zoning By-law Review Working Committee (climate change)
Member:	Board of Directors, Massachusetts Rivers Alliance
Columnist:	Belmont Citizen-Herald
Producer:	Belmont Media Center: BMC Podcast Network
Host:	Belmont Media Center: Belmont Journal
Member:	Belmont Town Meeting
Vice-chair:	Belmont Light General Manager Screening Committee
Past Chair:	Belmont Goes Solar

Coordinator: BelmontBudget.org (Belmont's Community Budget Forum)
Coordinator: Belmont Affordable Shelter Fund (BASF)
Past Chair: Belmont Solar Initiative Oversight Committee
Past Member: City of Detroit Blue Ribbon Panel on Water Affordability
Past Chair: Belmont Energy Committee
Member: Massachusetts Municipal Energy Group (Mass Municipal Association)
Past Chair: Housing Work Group, Belmont (MA) Comprehensive Planning Process
Past Chair: Board of Directors, Belmont Housing Trust, Inc.
Past Chair: Waverley Square Fire Station Re-use Study Committee (Belmont MA)
Past Member: Belmont (MA) Energy and Facilities Work Group
Past Member: Belmont (MA) Uplands Advisory Committee
Past Member: Advisory Board: Fair Housing Center of Greater Boston.
Past Chair: Fair Housing Committee, Town of Belmont (MA)
Past Member: Aggregation Advisory Committee, New York State Energy Research and Development Authority.
Past Member: Board of Directors, Vermont Energy Investment Corporation.
Past Member: Board of Directors, National Fuel Funds Network
Past Member: Board of Directors, Affordable Comfort, Inc.
Past Member: National Advisory Committee, U.S. Department of Health and Human Services, Administration for Children and Families, Performance Goals for Low-Income Home Energy Assistance.
Past Member: Editorial Advisory Board, International Library, *Public Utility Law Anthology*.
Past Member: ASHRAE Guidelines Committee, GPC-8, *Energy Cost Allocation of Comfort HVAC Systems for Multiple Occupancy Buildings*
Past Member: National Advisory Committee, U.S. Department of Housing and Urban Development, Calculation of Utility Allowances for Public Housing.
Past Member: National Advisory Board: Energy Financing Alternatives for Subsidized Housing, New York State Energy Research and Development Authority.

Professional Associations:

National Association of Housing and Redevelopment Officials (NAHRO)
National Society of Newspaper Columnists (NSNC)
Association for Enterprise Opportunity (AEO)
Iowa State Bar Association
Energy Bar Association
Association for Institutional Thought (AFIT)
Association for Evolutionary Economics (AEE)
Society for the Study of Social Problems (SSSO)

Association for Social Economics

Books

Colton, *et al.,* ***Access to Utility Service***, National Consumer Law Center: Boston (4th edition 2008).

Colton, *et al.*, ***Tenants' Rights to Utility Service***, National Consumer Law Center: Boston (1994).

Colton, ***The Regulation of Rural Electric Cooperatives***, National Consumer Law Center: Boston (1992).

Book Chapters

Colton (2018). The equities of efficiency: distributing energy usage reduction dollars, Chapter in Energy Justice: US and International Perspectives (Edited by Raya Salter, Carmen Gonzalez and Elizabeth Ann Kronk Warner), Edward Elgar Publishing (London, England).

Journal Publications

65 publications in industry and academic journals, primarily involving utility regulation and affordable housing. (list available upon request)

Technical Reports

200 technical reports for public-sector and private-sector clients (list available upon request)

Jurisdictions in which Expert Witness Provided

1. Maine	17. Tennessee	33. Montana
2. New Hampshire	18. Kentucky	34. Colorado
3. Vermont	19. Ohio	35. New Mexico
4. Massachusetts	20. Indiana	36. Arizona
5. Rhode Island	21. Michigan	37. Utah
6. Connecticut	22. Wisconsin	38. Idaho
7. New Jersey	23. Illinois	39. Nevada
8. Maryland	24. Minnesota	40. Washington
9. Pennsylvania	25. Iowa	41. Oregon
10. Washington D.C.	26. Missouri	42. California
11. Virginia	27. Kansas	43. Hawaii
12. North Carolina	28. Louisiana	**Canadian Provinces**
13. South Carolina	29. Arkansas	1. Nova Scotia
14. Florida	30. Texas (Federal Court)	2. Ontario
15. Alabama	31. South Dakota	3. Manitoba
16. Mississippi	32. North Dakota	4. British Columbia

Exhibit RDC-2 (page 1 of 2) (OCA-12-01)

Pennsylvania American Water
R-2025-3057983 (Water) and R-2025-3058051 (Wastewater)
OCA 12-001 Attachment

PENNSYLVANIA-AMERICAN WATER COMPANY
WATER ZONE 1

COMPARISON OF BILLS UNDER PRESENT AND PROPOSED RATES
RATE ZONE 1 RESIDENTIAL - MONTHLY
5/8 INCH METERS

JUNE 2025 NUMBER OF BDP PARTICIPANTS	CONSUMPTION GALLONS	BILLS UNDER PRESENT RATES	BILLS UNDER PROPOSED RATES	INCREASE AMOUNT	INCREASE PERCENT	BILLS UNDER LOW INCOME RIDER Tier 1 Fixed 90% Tier 1 Usage 80%	Tier 2 Fixed 75% Tier 2 Usage 65%	Tier 3 Fixed 60% Tier 3 Usage 40%	Tier 4 Fixed 30% Tier 4 Usage 20%	BILLS UNDER PROPOSED LOW INCOME RIDER Tier 1 82%	Tier 2 67%	Tier 3 44%	Tier 4 22%
273	0	$19.15	$20.00	$0.85	4.42%	$2.00	$5.00	$8.00	$14.00	$3.60	$6.60	$11.20	$15.60
79	100	21.07	22.31	1.24	5.89%	2.46	5.81	9.38	15.85	4.02	7.36	12.49	17.40
73	200	22.98	24.61	1.64	7.12%	2.92	6.61	10.77	17.69	4.43	8.12	13.78	19.20
95	300	24.89	26.92	2.03	8.15%	3.38	7.42	12.15	19.54	4.85	8.88	15.08	21.00
120	400	26.80	29.23	2.42	9.04%	3.85	8.23	13.54	21.38	5.26	9.65	16.37	22.80
180	500	28.72	31.53	2.82	9.82%	4.31	9.04	14.92	23.23	5.68	10.41	17.66	24.60
171	600	30.63	33.84	3.21	10.49%	4.77	9.84	16.30	25.07	6.09	11.17	18.95	26.40
223	700	32.54	36.15	3.61	11.09%	5.23	10.65	17.69	26.92	6.51	11.93	20.24	28.20
234	800	34.45	38.46	4.00	11.62%	5.69	11.46	19.07	28.76	6.92	12.69	21.53	30.00
253	900	36.37	40.76	4.40	12.09%	6.15	12.27	20.46	30.61	7.34	13.45	22.83	31.79
246	1,000	38.28	43.07	4.79	12.52%	6.61	13.07	21.84	32.46	7.75	14.21	24.12	33.59
274	1,100	40.19	45.38	5.19	12.90%	7.08	13.88	23.23	34.30	8.17	14.97	25.41	35.39
276	1,200	42.10	47.68	5.58	13.25%	7.54	14.69	24.61	36.15	8.58	15.74	26.70	37.19
309	1,300	44.02	49.99	5.97	13.57%	8.00	15.50	25.99	37.99	9.00	16.50	27.99	38.99
301	1,400	45.93	52.30	6.37	13.87%	8.46	16.30	27.38	39.84	9.41	17.26	29.29	40.79
296	1,500	47.84	54.60	6.76	14.14%	8.92	17.11	28.76	41.68	9.83	18.02	30.58	42.59
293	1,600	49.75	56.91	7.16	14.39%	9.38	17.92	30.15	43.53	10.24	18.78	31.87	44.39
288	1,700	51.67	59.22	7.55	14.62%	9.84	18.73	31.53	45.37	10.66	19.54	33.16	46.19
293	1,800	53.58	61.52	7.95	14.83%	10.30	19.53	32.91	47.22	11.07	20.30	34.45	47.99
286	1,900	55.49	63.83	8.34	15.03%	10.77	20.34	34.30	49.06	11.49	21.06	35.75	49.79
238	2,000	57.40	66.14	8.73	15.22%	11.23	21.15	35.68	50.91	11.90	21.83	37.04	51.59
276	2,100	59.32	68.44	9.13	15.39%	11.69	21.96	37.07	52.76	12.32	22.59	38.33	53.39
313	2,200	61.23	70.75	9.52	15.55%	12.15	22.76	38.45	54.60	12.74	23.35	39.62	55.19
247	2,300	63.14	73.06	9.92	15.71%	12.61	23.57	39.84	56.45	13.15	24.11	40.91	56.99
278	2,400	65.05	75.37	10.31	15.85%	13.07	24.38	41.22	58.29	13.57	24.87	42.20	58.79
310	2,500	66.97	77.67	10.71	15.99%	13.53	25.19	42.60	60.14	13.98	25.63	43.50	60.58
260	2,600	68.88	79.98	11.10	16.12%	14.00	25.99	43.99	61.98	14.40	26.39	44.79	62.38
294	2,700	70.79	82.29	11.50	16.24%	14.46	26.80	45.37	63.83	14.81	27.15	46.08	64.18
253	2,800	72.70	84.59	11.89	16.35%	14.92	27.61	46.76	65.67	15.23	27.92	47.37	65.98
262	2,900	74.62	86.90	12.28	16.46%	15.38	28.42	48.14	67.52	15.64	28.68	48.66	67.78
249	3,000	76.53	89.21	12.68	16.57%	15.84	29.22	49.52	69.37	16.06	29.44	49.96	69.58
260	3,100	78.44	91.51	13.07	16.67%	16.30	30.03	50.91	71.21	16.47	30.20	51.25	71.38
241	3,200	80.35	93.82	13.47	16.76%	16.76	30.84	52.29	73.06	16.89	30.96	52.54	73.18
265	3,300	82.27	96.13	13.86	16.85%	17.23	31.64	53.68	74.90	17.30	31.72	53.83	74.98
223	3,400	84.18	98.43	14.26	16.94%	17.69	32.45	55.06	76.75	17.72	32.48	55.12	76.78
244	3,500	86.09	100.74	14.65	17.02%	18.15	33.26	56.44	78.59	18.13	33.24	56.42	78.58
222	3,600	88.00	103.05	15.05	17.10%	18.61	34.07	57.83	80.44	18.55	34.01	57.71	80.38
213	3,700	89.92	105.36	15.44	17.17%	19.07	34.87	59.21	82.28	18.96	34.77	59.00	82.18
214	3,800	91.83	107.66	15.83	17.24%	19.53	35.68	60.60	84.13	19.38	35.53	60.29	83.98
208	3,900	93.74	109.97	16.23	17.31%	19.99	36.49	61.98	85.98	19.79	36.29	61.58	85.78
227	4,000	95.65	112.28	16.62	17.38%	20.46	37.30	63.37	87.82	20.21	37.05	62.87	87.58
5,951	Over 4,000												

Bill at present rate was calculated using DSIC rate @ 1.88%
Bill at proposed rate was calculated using DSIC rate @ 0.00%

Exhibit RDC-2 (page 2 of 2) (OCA-12-01)

Pennsylvania American Water
R-2025-3057983 (Water) and R-2025-3058051 (Wastewater)
OCA 12-001 Attachment

PENNSYLVANIA-AMERICAN WATER COMPANY
WASTEWATER ZONE 1

COMPARISON OF BILLS UNDER PRESENT AND PROPOSED RATES
RATE ZONE 1 RESIDENTIAL - MONTHLY
5/8 INCH METERS

JUNE 2025 NUMBER OF BDP PARTICIPANTS	CONSUMPTION GALLONS	BILLS UNDER PRESENT RATES	BILLS UNDER PROPOSED RATES	INCREASE AMOUNT	INCREASE PERCENT	BILLS UNDER LOW INCOME RIDER Tier 1 85%	Tier 2 73%	Tier 3 55%	Tier 4 37%	BILLS UNDER PROPOSED LOW INCOME RIDER Tier 1 85%	Tier 2 73%	Tier 3 55%	Tier 4 37%
722	0	$15.14	$20.00	$4.86	32.07%	$3.00	$5.40	$9.00	$12.60	$3.00	$5.40	$9.00	$12.60
13	100	18.13	23.14	5.02	27.69%	3.47	6.25	10.42	14.58	3.47	6.25	10.42	14.58
13	200	21.11	26.29	5.18	24.54%	3.94	7.10	11.83	16.56	3.94	7.10	11.83	16.56
18	300	24.09	29.43	5.34	22.18%	4.42	7.95	13.25	18.54	4.42	7.95	13.25	18.54
20	400	27.07	32.58	5.51	20.34%	4.89	8.80	14.66	20.52	4.89	8.80	14.66	20.52
31	500	30.06	35.72	5.67	18.86%	5.36	9.65	16.08	22.51	5.36	9.65	16.08	22.51
33	600	33.04	38.87	5.83	17.65%	5.83	10.49	17.49	24.49	5.83	10.49	17.49	24.49
34	700	36.02	42.01	5.99	16.64%	6.30	11.34	18.91	26.47	6.30	11.34	18.91	26.47
26	800	39.00	45.16	6.15	15.78%	6.77	12.19	20.32	28.45	6.77	12.19	20.32	28.45
44	900	41.98	48.30	6.32	15.05%	7.25	13.04	21.74	30.43	7.25	13.04	21.74	30.43
103	1,000	44.97	51.45	6.48	14.41%	7.72	13.89	23.15	32.41	7.72	13.89	23.15	32.41
48	1,100	47.95	54.59	6.64	13.85%	8.19	14.74	24.57	34.39	8.19	14.74	24.57	34.39
36	1,200	50.93	57.74	6.80	13.36%	8.66	15.59	25.98	36.37	8.66	15.59	25.98	36.37
48	1,300	53.91	60.88	6.97	12.92%	9.13	16.44	27.40	38.35	9.13	16.44	27.40	38.35
55	1,400	56.90	64.02	7.13	12.53%	9.60	17.29	28.81	40.34	9.60	17.29	28.81	40.34
65	1,500	59.88	67.17	7.29	12.18%	10.08	18.14	30.23	42.32	10.08	18.14	30.23	42.32
53	1,600	62.86	70.31	7.45	11.86%	10.55	18.98	31.64	44.30	10.55	18.98	31.64	44.30
45	1,700	65.84	73.46	7.62	11.57%	11.02	19.83	33.06	46.28	11.02	19.83	33.06	46.28
45	1,800	68.82	76.60	7.78	11.30%	11.49	20.68	34.47	48.26	11.49	20.68	34.47	48.26
39	1,900	71.81	79.75	7.94	11.06%	11.96	21.53	35.89	50.24	11.96	21.53	35.89	50.24
102	2,000	74.79	82.89	8.10	10.83%	12.43	22.38	37.30	52.22	12.43	22.38	37.30	52.22
52	2,100	77.77	86.04	8.27	10.63%	12.91	23.23	38.72	54.20	12.91	23.23	38.72	54.20
48	2,200	80.75	89.18	8.43	10.44%	13.38	24.08	40.13	56.18	13.38	24.08	40.13	56.18
50	2,300	83.74	92.33	8.59	10.26%	13.85	24.93	41.55	58.17	13.85	24.93	41.55	58.17
44	2,400	86.72	95.47	8.75	10.09%	14.32	25.78	42.96	60.15	14.32	25.78	42.96	60.15
57	2,500	89.70	98.62	8.91	9.94%	14.79	26.63	44.38	62.13	14.79	26.63	44.38	62.13
50	2,600	92.68	101.76	9.08	9.79%	15.26	27.48	45.79	64.11	15.26	27.48	45.79	64.11
46	2,700	95.66	104.90	9.24	9.66%	15.74	28.32	47.21	66.09	15.74	28.32	47.21	66.09
40	2,800	98.65	108.05	9.40	9.53%	16.21	29.17	48.62	68.07	16.21	29.17	48.62	68.07
59	2,900	101.63	111.19	9.56	9.41%	16.68	30.02	50.04	70.05	16.68	30.02	50.04	70.05
92	3,000	104.61	114.34	9.73	9.30%	17.15	30.87	51.45	72.03	17.15	30.87	51.45	72.03
52	3,100	107.59	117.48	9.89	9.19%	17.62	31.72	52.87	74.01	17.62	31.72	52.87	74.01
52	3,200	110.58	120.63	10.05	9.09%	18.09	32.57	54.28	76.00	18.09	32.57	54.28	76.00
55	3,300	113.56	123.77	10.21	8.99%	18.57	33.42	55.70	77.98	18.57	33.42	55.70	77.98
35	3,400	116.54	126.92	10.38	8.90%	19.04	34.27	57.11	79.96	19.04	34.27	57.11	79.96
62	3,500	119.52	130.06	10.54	8.82%	19.51	35.12	58.53	81.94	19.51	35.12	58.53	81.94
44	3,600	122.51	133.21	10.70	8.73%	19.98	35.97	59.94	83.92	19.98	35.97	59.94	83.92
41	3,700	125.49	136.35	10.86	8.66%	20.45	36.81	61.36	85.90	20.45	36.81	61.36	85.90
43	3,800	128.47	139.49	11.03	8.58%	20.92	37.66	62.77	87.88	20.92	37.66	62.77	87.88
36	3,900	131.45	142.64	11.19	8.51%	21.40	38.51	64.19	89.86	21.40	38.51	64.19	89.86
81	4,000	134.43	145.78	11.35	8.44%	21.87	39.36	65.60	91.84	21.87	39.36	65.60	91.84
1,446	Over 4,000												

Bill at present rate was calculated using DSIC rate @ 0.96%.
Bill at proposed rate was calculated using DSIC rate @ 0.00%.

Exhibit RDC-3 (part 1 of 2)
(OCA-04-13)

Month and Year	Count of identified low-income customers, excluding Bill Discount Program (BDP) participants					
	current	1 – 30 days overdue	31 – 60 days overdue	61 – 90 days overdue	91 to 150 days overdue	151 days overdue or more
202301	47,751	18,235	15,684	10,923	8,297	12,840
202302	43,626	26,981	10,873	10,750	8,897	12,745
202303	36,993	27,738	15,335	7,087	9,095	12,611
202304	42,512	26,620	15,794	9,833	7,504	12,826
202305	37,626	29,972	14,295	10,779	8,172	12,784
202306	39,319	27,058	16,476	9,592	9,080	12,320
202307	44,352	21,230	16,819	11,573	9,481	12,731
202308	36,337	28,829	13,727	10,952	10,433	12,576
202309	42,545	25,445	16,792	9,823	10,423	12,684
202310	39,239	27,788	12,770	11,923	9,905	13,411
202311	38,646	27,876	15,828	8,893	10,583	13,352
202312	42,979	25,308	18,488	12,200	10,213	13,566
202401	43,012	25,357	18,518	12,218	10,223	13,582
202402	40,537	26,612	13,680	10,539	11,293	13,666
202403	40,841	27,527	16,166	9,851	10,563	14,240
202404	40,298	25,926	15,070	10,531	8,969	14,156
202405	35,988	26,156	14,854	10,010	9,239	13,228
202406	41,375	24,734	15,424	10,828	9,417	13,366

Count of identified low-income customers, excluding Bill Discount Program (BDP) participants						
Month and Year	current	1 – 30 days overdue	31 – 60 days overdue	61 – 90 days overdue	91 to 150 days overdue	151 days overdue or more
Jul 2024	40,253	27,788	12,958	11,082	10,408	13,913
Aug 2024	40,592	29,155	17,291	10,093	10,788	14,072
Sep 2024	45,405	26,892	18,264	12,787	10,400	14,440
Oct 2024	41,201	33,639	20,224	12,810	12,627	15,376
Nov 2024	46,434	30,652	25,378	16,813	14,681	16,720
Dec 2024	37,617	30,976	19,088	16,935	13,523	15,343
Jan 2025	36,723	29,672	21,491	14,547	14,496	15,204
Feb 2025	42,041	28,099	19,441	16,271	14,097	15,655
Mar 2025	39,521	26,709	18,094	14,615	13,537	15,970
Apr 2025	40,783	25,971	17,408	13,471	13,452	16,049
May 2025	36,352	27,625	18,712	13,696	13,416	16,536
Jun 2025	40,568	25,282	17,234	14,012	13,150	16,863
Jul 2025	37,979	28,020	16,848	11,908	13,402	16,946
Aug 2025	38,490	26,285	18,504	13,273	12,549	17,393
Sep 2025	40,140	25,947	16,288	13,293	12,246	17,553
Oct 2025	33,391	28,198	17,546	11,518	12,534	17,382
Nov 2025	49,660	19,671	17,665	12,871	11,912	17,023

Exhibit RDC-3 (part 2 of 2)
(OCA-04-14)

	Arrears of identified low-income, excluding Bill Discount Program (BDP) participants					
Month	Current	1 – 30 days overdue	31 – 60 days overdue	61 – 90 days overdue	91 to 150 days overdue	151 days overdue or more
Jan 2023	$4,636,957	$1,733,728	$1,362,748	$1,180,667	$1,368,881	$9,584,241
Feb 2023	$4,403,839	$2,838,735	$1,044,928	$1,055,780	$1,531,447	$9,511,124
Mar 2023	$3,723,783	$3,106,540	$1,681,560	$740,949	$1,647,902	$9,324,998
Apr 2023	$4,859,513	$2,838,458	$1,757,972	$1,201,642	$1,268,867	$9,397,469
May 2023	$3,759,274	$3,498,051	$1,516,595	$1,343,643	$1,533,203	$9,263,323
Jun 2023	$4,602,571	$2,888,499	$1,853,379	$1,157,661	$1,999,673	$9,002,645
Jul 2023	$5,216,248	$2,447,762	$1,827,182	$1,448,986	$1,936,637	$9,152,770
Aug 2023	$4,024,312	$3,520,649	$1,560,724	$1,265,159	$2,047,194	$8,897,933
Sep 2023	$5,165,276	$3,018,670	$1,997,434	$1,226,223	$2,063,493	$8,800,746
Oct 2023	$4,214,926	$3,342,650	$1,513,918	$1,585,510	$1,852,856	$8,790,126
Nov 2023	$4,104,661	$3,122,240	$1,903,306	$1,175,725	$2,168,719	$8,589,979
Dec 2023	$4,610,648	$2,722,102	$1,986,887	$1,634,845	$2,044,000	$8,498,297
Jan 2024	$4,613,138	$2,729,454	$1,991,456	$1,639,180	$2,045,818	$8,511,879
Feb 2024	$4,475,411	$3,265,399	$1,558,168	$1,219,211	$2,387,499	$8,514,941
Mar 2024	$4,163,356	$3,140,030	$2,004,301	$1,244,815	$1,993,103	$8,928,805
Ap[r 2024	$4,249,097	$2,671,235	$1,719,132	$1,426,691	$1,725,673	$8,933,694
May 2024	$3,800,019	$2,752,615	$1,534,698	$1,224,550	$1,996,649	$8,480,960

Jun 2024	$4,868,985	$2,668,508	$1,566,593	$1,230,591	$2,016,533	$8,714,753
Jul 2024	$4,916,211	$3,212,467	$1,369,694	$1,250,307	$2,174,120	$9,214,340
Aug 2024	$4,956,267	$3,498,520	$1,898,684	$1,161,310	$2,026,107	$9,375,342
Sep 2024	$6,075,830	$3,197,879	$2,090,493	$1,488,694	$1,846,039	$9,520,950
Oct 2024	$4,813,638	$4,413,514	$2,384,011	$1,586,426	$2,377,133	$9,958,088
Nov 2024	$5,707,504	$3,587,452	$3,249,448	$2,042,996	$2,800,200	$10,663,690
Dec 2024	$4,526,768	$3,969,121	$2,115,242	$2,148,751	$2,564,598	$9,144,081
Jan 2025	$4,897,374	$3,756,933	$2,786,444	$1,693,492	$3,074,544	$9,214,090
Feb 2025	$5,609,963	$3,796,913	$2,376,701	$2,033,255	$3,012,762	$9,653,635
Mar 2025	$4,725,676	$3,588,118	$2,479,728	$1,877,821	$2,957,627	$10,141,251
Apr 2025	$4,799,773	$3,264,777	$2,384,779	$1,982,752	$3,114,482	$10,489,442
May 2025	$4,447,406	$3,364,401	$2,449,265	$2,080,318	$3,114,649	$11,178,173
Jun 2025	$5,244,092	$3,164,850	$2,064,453	$1,999,724	$3,362,892	$11,771,463
Jul 2025	$4,981,957	$3,652,772	$2,079,945	$1,535,144	$3,393,116	$12,087,554
Aug 2025	$5,121,972	$3,524,802	$2,364,951	$1,820,509	$2,709,181	$12,564,440
Sep 2025	$5,249,876	$3,550,983	$2,176,640	$1,853,070	$2,627,483	$12,716,213
Oct 2025	$4,079,648	$3,937,417	$2,476,145	$1,686,188	$2,931,623	$12,726,685
Nov 2025	$5,058,826	$2,416,955	$2,466,353	$1,984,637	$2,821,859	$12,787,399

Exhibit RDC-4 (No. of Nonpayment Disconnections (DNP) and Avg. Arrears at Time of Nonpayment Disconnection:
(Confirmed Low-Income—No BDP) (January 2021 –September 2025)
(OCA-IV-06: DNP #s and OCA-IV-21: avg arrears at time of DNP)

	A	B	C	D
Year_Month	The number of accounts actually being disconnected for nonpayment	The average arrears of all identified low-income residential accounts disconnected for nonpayment in that month.	Total Arrears at Disconnection (B x C)	12-Month Aggregate Arrears at Time of DNP
Jan 2023	328	$498.24	$163,422.52	
Feb 2023	174	$856.74	$149,072.41	
Mar 2023	212	$813.89	$172,544.52	
Apr 2023	519	$432.80	$224,621.20	
May 2023	713	$478.23	$340,976.36	
Jun 2023	860	$558.14	$480,001.26	
Jul 2023	670	$623.31	$417,620.49	
Aug 2023	933	$508.14	$474,095.87	
Sep 2023	483	$490.58	$236,949.42	
Oct 2023	490	$632.56	$309,955.52	
Nov 2023	630	$431.08	$271,582.81	
Dec 2023	202	$628.06	$126,868.79	$3,367,711.17
Jan 2024	285	$348.89	$99,434.92	
Feb 2024	203	$1,440.82	$292,485.95	

	A	B	C	D
Year_Month	The number of accounts actually being disconnected for nonpayment	The average arrears of all identified low-income residential accounts disconnected for nonpayment in that month.	Total Arrears at Disconnection (B x C)	12-Month Aggregate Arrears at Time of DNP
Mar 2024	257	$514.64	$132,261.62	
Ap[r 2024	822	$568.60	$467,388.97	
May 2024	918	$454.69	$417,402.42	
Jun 2024	733	$701.54	$514,230.04	
Jul 2024	860	$625.19	$537,661.84	
Aug 2024	648	$276.79	$179,359.92	
Sep 2024	526	$989.87	$520,671.04	
Oct 2024	83	($30.00)	($2,490.00)	
Nov 2024	NA	NA	NA	
Dec 2024	61	**NA**	NA	$3,158,406.72
Jan 2025	312	$755.41	$235,687.14	
Feb 2025	223	$962.61	$214,661.02	
Mar 2025	298	$1,537.82	$458,271.11	
Apr 2025	878	$936.97	$822,662.95	
May 2025	809	$578.82	$468,262.01	
Jun 2025	730	$959.86	$700,699.42	
Jul 2025	947	$946.73	$896,548.85	

	A	B	C	D
Year_Month	The number of accounts actually being disconnected for nonpayment	The average arrears of all identified low-income residential accounts disconnected for nonpayment in that month.	Total Arrears at Disconnection (B x C)	12-Month Aggregate Arrears at Time of DNP
Aug 2025	980	$704.65	$690,555.78	
Sep 2025	792	$648.62	$513,707.04	
Oct 2025	969	$762.96	$739,304.72	
Nov 2025	529	$3,332.15	$1,762,706.47	$7,503,066.50 (YTD) Nov

Exhibit RDC-5.

PENNSYLVANIA AMERICAN WATER

AMERICAN WATER, PO BOX 2798, CAMDEN, NJ 08101

For Service To: [redacted]

OCA 03-008_Attachment
Page 1 of 6

Account Number	[redacted]
Pay Before	12/08/2025
Total Due	217.64

11/26/2025

[redacted]

TIME SENSITIVE NOTICE:

To ensure timely receipt of your payment, please use one of the payment options noted below. Do not mail your payment.

IMPORTANT: 10 DAY SHUT OFF NOTICE

Please read and take the steps needed to avoid your service from being shut off.

PAY THIS AMOUNT **$217.64** **PRIOR TO** **12/08/2025**

Payment on your Water account is overdue. If payment is not received, your service may be shut off on or after 12/08/2025. You can prevent termination of water service by paying the amount printed above. Please use one of our convenient payment options listed below to ensure your payment is applied to your account immediately.

TO STOP THE SHUT OFF, YOU MUST PAY THE AMOUNT OVERDUE OR YOU MUST CALL US AT 1-855-669-8753 IF:

PARA DETENER EL CIERRE, usted debe pagar la cantidad vencida O Usted debe llamar al 1-855-669-8753, si usted tiene alguna pregunta o necesita más información.

1. You cannot pay the overdue amount and would like to discuss your eligibility to enter into a payment arrangement.
2. You dispute the overdue amount or have a question regarding your bill.

MEDICAL EMERGENCY NOTICE

Let us know if someone living in your home is seriously ill or has a medical condition that will be aggravated by the cessation of service. We will not shut off your service during such illness provided you:

(a) Have a licensed physician, nurse practitioner or physician's assistant certify by in writing that such illness exists and that it may be aggravated if your service is stopped; and
(b) Make some equitable arrangement to pay the company your current bills for service.
(c) Contact us by calling the following number: 1-855-669-8753 or writing to us at: Pennsylvania American Water, PO Box 2798, Camden, NJ 08101.
(d) Have your licensed physician, nurse practitioner or physician's assistant send a signed written document to the utility within 3 days certifying that a customer or member of the customer's household is seriously ill or has been diagnosed with a medical condition which requires the continuation of service to treat the medical condition.

If someone living in your home is seriously ill or has a medical condition that will be aggravated by the cessation of service, you have the right to make a verbal declaration of a medical emergency, which will delay termination of service for at least 3 days while you seek to obtain a medical certificate.

It is our sincere goal to work with you to correct this situation before further action becomes necessary. Please respond immediately so that we can assist you as best as possible. If you do not respond to this notice and your service is disconnected, any installment plan may be con sidered in default and you may be required to pay the full amount due and a service charge of $30.00 before service is reconnected.

CONVENIENT PAYMENT OPTIONS

Pay your bill online: www.amwater.com/myaccount

Pay by Phone: 855-748-6066 24 hours a day, seven days a week TTY/TDD FOR THE HEARING IMPAIRED: 711 (and then reference Customer Service number listed above)

Pay in person: for a list of approved payment locations, visit www.amwater.com/myaccount

Customer Service: M-F 7am to 7pm Emergency: 24/7: 1-855-669-8753 www.pennsylvaniaamwater.com

ZZ_LDSNCOL_FICA

Special protections are also available for tenants if the landlord is responsible for paying the bill. Please contact us at 1-800-565-7292 to obtain more information on these protections.

If you are a victim of abuse and have an order issued by the courts, special medical emergency procedures and protections may be available. Call us to discuss these special procedures and protections. You may be required to provide us with a copy of your court order. Please contact us at 717-550-1538 to obtain more information on these protections.

If your service is disconnected, please contact us after payment has been made to arrange reconnection of the service. It may take up to 7 days to have the service turned back on.

Once you pay the required amount needed to avoid your water service from being shut off, please contact us immediately to report your payment. Not calling may result in your services being disconnected. If you are paying the full termination amount on this notice, there is no need to contact us.

Overdue Water Amount: $217.64
Overdue Wastewater Amount: $0
Overdue Payment Arrangement Amount: $0.00
Turn-On Charge: $30.00
Total Amount Due: $247.64

If you have any questions or need more information, please contact us. If you are not satisfied after you talk with us, you may file a complaint with the Pennsylvania Public Utility Commission by calling 1-800-692-7380 toll free or by writing the Pennsylvania Public Utility Commission, Post Office Box 3265, Harrisburg, PA 17105-3265

The Pennsylvania Public Utility Commission may delay the shut off if you file the complaint before the shut off date.

NOTE: This notice is valid for up to 60 days. All adult occupants whose names are on the mortgage, deed, or lease are considered the 'customer' and are responsible for paying this bill. If service is shut off, ANY adult occupant who has been living at the premises may have to pay all or portions of this bill to have service restored.

PENNSYLVANIA AMERICAN WATER CUSTOMER SERVICE
1-800-565-7292
HOURS: M-F, 7am-7pm ▪ Emergencies: 24/7
TTY/TDD FOR THE HEARING IMPAIRED: 711 (and then reference Customer Service number listed above)

Esto es un aviso importante sobre su servicio de agua/alcantarilla. Para la ayuda de la traducción, por favor llamas a Pennsylvania American Water al número 1-800-565-7292.

ADDRESS, EMAIL OR PHONE NUMBER CHANGE REQUEST

Please let us know if we need to update your contact information in our records. NOTE: If you are moving or need to make a name change, please contact our customer service center at the phone number listed above. Updates to your contact information can also be made through our online self-service tool, **MyWater.** Access MyWater by visiting **amwater.com/mywater.**

CUSTOMER ASSISTANCE PROGRAMS

If you're experiencing financial hardship, please reach out to us. We may be able to assist. Here are some of the programs we offer to help keep your life flowing:

FINANCIAL ASSISTANCE

Through our H2O Help to Others Program™, we offer financial assistance to customers who qualify, including:

Assistance for Water Customers:
- Grants of up to $500 per year
- A 40% to 80% discount on the monthly service fee and a 25% to 80% discount on the monthly volumetric charges
- Water-saving devices and education

Assistance for Wastewater Customers:
- Grants of up to $500 per year
- A 30% to 80% discount on the total wastewater charges

To learn more, visit pennsylvaniaamwater.com. Under Customer Service & Billing, select Customer Assistance Programs.

INSTALLMENT PLANS

You may be eligible for an installment plan to extend the time you have to pay a past due balance. Installment plans vary based on your past due amount and the information you provide to us about your ability to pay. We collect this information, including household income and number of people in your household, to determine what options we can provide to you.

BUDGET BILLING

Budget billing is a free service that is available to eligible residential customers. The program makes managing your cash flow easier by providing predictable monthly payments and avoiding unplanned seasonal spikes that may be difficult to pay.

WATER SAVING TIPS AND TOOLS

We offer tips and tools to help customers save water and money:

- **Leak Detection Kit** to help identify common and not-so-common household leaks.
- **Conservation Tips**
- **Water Use Calculator**, which allows you to input water use information specific to your household and offers tips on where you can save water and energy based on that information.

Visit pennsylvaniaamwater.com. Under Water Information, select Detecting Leaks and Wise Water Use.

EASY PAYMENT OPTIONS

- **Online:** Visit www.amwater.com/billpay
- **By phone:** 24/7 at 1-855-748-6066
- **In person:** To find an authorized payment location near you, visit us online at pennsylvaniaamwater.com. See Customer Service & Billing.

Want to avoid late payments in the future? Consider enrolling in Auto Pay. With Auto Pay, your bill will be paid on time, every time, on the date it is due. You can choose to have your monthly bill automatically applied to your credit card or deducted directly from your checking or savings account. No stamps required.

MANAGE YOUR ACCOUNT ONLINE WITH MYWATER

MyWater is a fast and easy way to access and manage your account online. Here are a few things you can do through MyWater:

- View and pay your bill
- Sign up for our Auto Pay and Paperless Billing programs.
- Check your account balance.
- Update your contact information.
- Sign up to receive emergency and non-urgent alerts by email, phone and text.
- Report a service outage.
- View your water use history. (See which months you use the most water to help determine ways you can save water and money.)

08-2023

PENNSYLVANIA AMERICAN WATER

AMERICAN WATER, PO BOX 2798, CAMDEN, NJ 08101

For Service To: [redacted]

[redacted]

Account Number	[redacted]
Pay Before	12/08/2025
Total Due	251.82

11/26/2025

TIME SENSITIVE NOTICE:

To ensure timely receipt of your payment, please use one of the payment options noted below. Do not mail your payment.

IMPORTANT: 10 DAY SHUT OFF NOTICE

Please read and take the steps needed to avoid your service from being shut off.

PAY THIS AMOUNT	**$251.82**	**PRIOR TO**	**12/08/2025**
PAY THIS AMOUNT	**$1,149.62**	**ON OR AFTER**	**12/08/2025**

Payment on your Water/Wastewater account is overdue. If payment is not received, your service may be shut off on or after 12/08/2025. You can prevent termination of water service by paying the amount printed above. Please use one of our convenient payment options listed below to ensure your payment is applied to your account immediately.

TO STOP THE SHUT OFF, YOU MUST PAY THE AMOUNT OVERDUE OR YOU MUST CALL US AT 1-855-669-8753 IF:

PARA DETENER EL CIERRE, usted debe pagar la cantidad vencida O Usted debe llamar al 1-855-669-8753, si usted tiene alguna pregunta o necesita más información.

1. You cannot pay the overdue amount and would like to discuss your eligibility to enter into a payment arrangement.
2. You dispute the overdue amount or have a question regarding your bill.

MEDICAL EMERGENCY NOTICE

Let us know if someone living in your home is seriously ill or has a medical condition that will be aggravated by the cessation of service. We will not shut off your service during such illness provided you:

(a) Have a licensed physician, nurse practitioner or physician's assistant certify by in writing that such illness exists and that it may be aggravated if your service is stopped; and
(b) Make some equitable arrangement to pay the company your current bills for service.
(c) Contact us by calling the following number: 1-855-669-8753 or writing to us at: Pennsylvania American Water, PO Box 2798, Camden, NJ 08101.
(d) Have your licensed physician, nurse practitioner or physician's assistant send a signed written document to the utility within 3 days certifying that a customer or member of the customer's household is seriously ill or has been diagnosed with a medical condition which requires the continuation of service to treat the medical condition.

If someone living in your home is seriously ill or has a medical condition that will be aggravated by the cessation of service, you have the right to make a verbal declaration of a medical emergency, which will delay termination of service for at least 3 days while you seek to obtain a medical certificate.

It is our sincere goal to work with you to correct this situation before further action becomes necessary. Please respond immediately so that we can assist you as best as possible. If you do not respond to this notice and your service is disconnected, any installment plan may be con sidered in default and you may be required to pay the full amount due and a service charge of $30.00 before service is reconnected.

CONVENIENT PAYMENT OPTIONS

Pay your bill online: www.amwater.com/myaccount

Pay by Phone: 855-748-6066 24 hours a day, seven days a week TTY/TDD FOR THE HEARING IMPAIRED: 711 (and then reference Customer Service number listed above)

Pay in person: for a list of approved payment locations, visit www.amwater.com/myaccount

Customer Service: M-F 7am to 7pm Emergency: 24/7: 1-855-669-8753 www.pennsylvaniaamwater.com

ZZ_LDSNCOL_FICA

Special protections are also available for tenants if the landlord is responsible for paying the bill. Please contact us at 1-800-565-7292 to obtain more information on these protections.

If you are a victim of abuse and have an order issued by the courts, special medical emergency procedures and protections may be available. Call us to discuss these special procedures and protections. You may be required to provide us with a copy of your court order. Please contact us at 717-550-1538 to obtain more information on these protections.

If your service is disconnected, please contact us after payment has been made to arrange reconnection of the service. It may take up to 7 days to have the service turned back on.

Once you pay the required amount needed to avoid your water service from being shut off, please contact us immediately to report your payment. Not calling may result in your services being disconnected. If you are paying the full termination amount on this notice, there is no need to contact us.

Overdue Water Amount: $82.85
Overdue Wastewater Amount: $108.97
Overdue Payment Arrangement Amount: $0.00
Turn-On Charge: $30.00
Total Amount Due: $1,179.62

If you have any questions or need more information, please contact us. If you are not satisfied after you talk with us, you may file a complaint with the Pennsylvania Public Utility Commission by calling 1-800-692-7380 toll free or by writing the Pennsylvania Public Utility Commission, Post Office Box 3265, Harrisburg, PA 17105-3265

The Pennsylvania Public Utility Commission may delay the shut off if you file the complaint before the shut off date.

NOTE: This notice is valid for up to 60 days. All adult occupants whose names are on the mortgage, deed, or lease are considered the 'customer' and are responsible for paying this bill. If service is shut off, ANY adult occupant who has been living at the premises may have to pay all or portions of this bill to have service restored.

PENNSYLVANIA AMERICAN WATER CUSTOMER SERVICE
1-800-565-7292
HOURS: M-F, 7am-7pm ▪ Emergencies: 24/7
TTY/TDD FOR THE HEARING IMPAIRED: 711 (and then reference Customer Service number listed above)

Esto es un aviso importante sobre su servicio de agua/alcantarilla. Para la ayuda de la traducción, por favor llamas a Pennsylvania American Water al número 1-800-565-7292.

ADDRESS, EMAIL OR PHONE NUMBER CHANGE REQUEST

Please let us know if we need to update your contact information in our records. NOTE: If you are moving or need to make a name change, please contact our customer service center at the phone number listed above. Updates to your contact information can also be made through our online self-service tool, **MyWater.** Access MyWater by visiting **amwater.com/mywater.**

CUSTOMER ASSISTANCE PROGRAMS

If you're experiencing financial hardship, please reach out to us. We may be able to assist. Here are some of the programs we offer to help keep your life flowing:

FINANCIAL ASSISTANCE

Through our H2O Help to Others Program™, we offer financial assistance to customers who qualify, including:

Assistance for Water Customers:
- Grants of up to $500 per year
- A 40% to 80% discount on the monthly service fee and a 25% to 80% discount on the monthly volumetric charges
- Water-saving devices and education

Assistance for Wastewater Customers:
- Grants of up to $500 per year
- A 30% to 80% discount on the total wastewater charges

To learn more, visit pennsylvaniaamwater.com. Under Customer Service & Billing, select Customer Assistance Programs.

INSTALLMENT PLANS

You may be eligible for an installment plan to extend the time you have to pay a past due balance. Installment plans vary based on your past due amount and the information you provide to us about your ability to pay. We collect this information, including household income and number of people in your household, to determine what options we can provide to you.

BUDGET BILLING

Budget billing is a free service that is available to eligible residential customers. The program makes managing your cash flow easier by providing predictable monthly payments and avoiding unplanned seasonal spikes that may be difficult to pay.

WATER SAVING TIPS AND TOOLS

We offer tips and tools to help customers save water and money:

- **Leak Detection Kit** to help identify common and not-so-common household leaks.
- **Conservation Tips**
- **Water Use Calculator**, which allows you to input water use information specific to your household and offers tips on where you can save water and energy based on that information.

Visit pennsylvaniaamwater.com. Under Water Information, select Detecting Leaks and Wise Water Use.

EASY PAYMENT OPTIONS

- **Online:** Visit www.amwater.com/billpay
- **By phone:** 24/7 at 1-855-748-6066
- **In person:** To find an authorized payment location near you, visit us online at pennsylvaniaamwater.com. See Customer Service & Billing.

Want to avoid late payments in the future? Consider enrolling in Auto Pay. With Auto Pay, your bill will be paid on time, every time, on the date it is due. You can choose to have your monthly bill automatically applied to your credit card or deducted directly from your checking or savings account. No stamps required.

MANAGE YOUR ACCOUNT ONLINE WITH MYWATER

MyWater is a fast and easy way to access and manage your account online. Here are a few things you can do through MyWater:

- View and pay your bill
- Sign up for our Auto Pay and Paperless Billing programs.
- Check your account balance.
- Update your contact information.
- Sign up to receive emergency and non-urgent alerts by email, phone and text.
- Report a service outage.
- View your water use history. (See which months you use the most water to help determine ways you can save water and money.)

08/2023

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	:	
	:	
v.	:	Docket Nos. R-2025-3057983 (W)
	:	R-2025-3058051 (WW)
Pennsylvania-American Water Company	:	
	:	

VERIFICATION

I, Roger Colton, hereby state that the facts above set forth in my Direct Testimony, OCA Statement No. 4, 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 herein are made subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

DATED: January 30, 2026

Signature: */s/ Roger Colton*
Roger Colton

Address: Fisher Sheehan & Colton
34 Warwick Road
Belmont, MA 02478

BEFORE THE

PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	:	
	:	Docket Nos.: R-2025-3057983 (Water)
v.	:	R-2025-3058051 (Wastewater)
	:	
Pennsylvania American Water Company	:	

DIRECT TESTIMONY

OF

BARBARA R. ALEXANDER

Barbara Alexander Consulting LLC

ON BEHALF OF THE

THE PENNSYLVANIA OFFICE OF CONSUMER ADVOCATE

CONFIDENTIAL VERSION

January 30, 2026

Q. PLEASE STATE YOUR NAME, ADDRESS AND OCCUPATION.

A. My name is Barbara R. Alexander. I am the sole member of Barbara Alexander Consulting LLC. My address is 44 Beech St., Hallowell, ME 04347. I appear in this case as a witness on behalf of the Pennsylvania Office of Consumer Advocate (OCA).

Q. PLEASE DESCRIBE YOUR BACKGROUND AND QUALIFICATIONS.

A. I have over 30 years' experience as an expert in consumer protection, service quality, and low-income customer programs for public utilities and the regulation of retail alternative energy suppliers in markets that have adopted restructuring for electric and/or natural gas supply service. I was the Director of the Consumer Assistance Division for the Maine Public Utilities Commission from 1986-1996 and have operated my own consulting practice for public advocates and consumers since that time. I have testified in over 30 U.S. state jurisdictions, including Pennsylvania, and Canadian jurisdictions, in many proceedings. My C.V. is attached to this testimony as Exhibit BA-1, and it lists all my publications and testimony associated with my consulting practice.

Q. HAVE YOU PREVIOUSLY FILED TESTIMONY BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION?

A. Yes. I have filed testimony on behalf of the OCA before the Pennsylvania Public Utility Commission (Commission) in investigations, base rate proceedings, mergers and

A. acquisitions, and default service proceedings, on issues relating to customer service, service quality and reliability of service, low-income customer programs, and retail market programs. With regard to Pennsylvania's water and wastewater utilities, I have evaluated customer service and consumer protection programs in proceedings before the

Commission involving Pennsylvania American Water Company (PAWC or Company), Pittsburgh Water and Sewer Authority, York Water, and Aqua Water.

Q. HAVE YOU PREVIOUSLY FILED TESTIMONY REGARDING PAWC?

Q. Yes. I filed Direct and Surrebuttal Testimony on behalf of the OCA in PAWC's 2020 base rate case (Docket Nos. R-2020-3019369 (Water) and R-2020-3019371 (Wastewater)). I filed Direct and Surrebuttal Testimony on behalf of the OCA in PAWC's 2022 base rate case (Docket Nos. R-2022-3031672 and R-2022-3031673). I also filed Direct and Surrebuttal Testimony on behalf of the OCA in the proceeding in which PAWC sought to acquire the wastewater system currently operated by the Borough of Brentwood (Docket No. A-2021-3024058). Finally, I filed Direct and Surrebuttal Testimony on behalf of the OCA in PAWC's most recent base rate case filed in 2023 (Docket Nos. R-2023-3043189 (water) and R-2023-3043190 (wastewater)) that resulted in a rate increase for water and wastewater service effective August 2024.

Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

A. I am filing direct testimony on my review of PAWC's customer service policies and programs and, specifically, the following topics in the following order:

- The Company's service quality and its call center's customer service performance quality is directly related to the Company's general rate increase request;
- The Company's consumer protection policies and programs to ensure that PAWC's service company, American Water Works Service Company, Inc.'s (Service Company) call center representatives are complying with Chapter 14 of the Public Utility Code and Chapter 56 of the Commission's regulations, particularly with regard to handling and evaluating customer complaints;

- The Service Company's individual call centers customer service performance, including performance trends, internal training, and management oversight;
- The Company's billing arrangement with American Water Resources, a third-party provider of services that are labeled on PAWC's customer bills as "protection" services for customer-owned service lines and in-home plumbing. As well as PAWC's billing of charges for such services on PAWC customer bills;
- Certain provisions proposed by PAWC for its tariffs; and
- The Company's request for a reward in its rate of return in light of the Company's customer service performance.

These issues are important themselves, but particularly so in this case given the magnitude of PAWC's proposed rate increases and the fact that PAWC's customers have seen rate increases in 2021, 2022, 2023, resulting from a two-stage significant rate increase from its 2020 rate case and the increase that just took effect in January 2023 from the 2022 rate case and a rate increase authorized in August 2024 as a result of the most recent base rate case filed in 2023. Since its 2020 rate case, the average residential customer in Rate Zone 1 has seen a nearly 35% increase in water rates. It is appropriate to ask the question whether this monopoly water and wastewater utility has justified is constant rate increases with any improvement in quality of service, customer service performance, and affordability of its essential services to Pennsylvania residential customers.

Q. IS YOUR TESTIMONY EXCLUSIVE OF YOUR FINDINGS AND RECOMMENDATIONS?

A. No. My findings and recommendations should be considered as supplemental to and in

coordination with those of other OCA witnesses in this proceeding.

Q. DO YOU INCLUDE EXHIBITS WITH YOUR TESTIMONY?

A. Yes. I attach the following Exhibits to my Testimony:

- Exhibit BA-1: Barbara Alexander C.V.
- Exhibit BA-2: PAWC Response to OCA-15-001, Attachment (two documents).
- Exhibit BA-3: PAWC Response to OCA-07-008 and associated customer bill.
- Exhibit BA-4: PAWC Response to OCA-07-010 and attachment (**Confidential**)
- Exhibit BA-5: PAWC Response to OCA-14-012 (five pages of 293) (**Confidential)**

Q. PLEASE SUMMARIZE PAWC'S GENERAL RATE INCREASE PROPOSALS IN THIS PROCEEDING.

A. The Company proposes to increase rates to produce additional overall revenues of $168.7 million ($152.2 million for water and $16.3 million for wastewater) per year, a 14.6% increase in overall distribution revenue requirement, based on a fully projected future test year (FPFTY) ending June 30, 2027. PAWC provides water distributions services to approximately 687,000 customers located in portions of 38 counties and wastewater services to approximately 114,900 customers in portions of 18 counties throughout Pennsylvania. Under the Company's proposal, the total bill for a residential water customer purchasing 3,263 gallons of water per month would see increases, ranging by Rate Zone, between 9.8% to 41.1%. The total bill for a residential wastewater customer purchasing 3,164 gallons of water per month would see increases, ranging by Rate Zone, between 8% to 54%. The Company proposes increasing the monthly residential water customer service charge for most residential customers from $18.80 to $20, or by 6.4%,

and proposes increased consumption charges between 9.9% to 76.1% depending on Rate Zone. The Company proposes increasing the monthly residential wastewater customer service charge for most residential customers from $15 to $20, or by 33.3%, and proposes to increase usage charges between 1% to 131.3% depending on Rate Zone.

Q. DOES PAWC SEEK A HIGHER RATE OF RETURN ON EQUITY FOR "SUPERIOR MANAGEMENT PERFORMANCE?"

A. Yes. PAWC witness Bulkley recommends that the Commission adopt a return on equity at the upper end of her range. Such a "reward" is further justified in the testimony of PAWC witness Ladner. Mr. Ladner justifies this higher rate of return—which results in higher rates for PAWC customers—as follows:

> While I am proud of PAWC's efforts in many areas across the business that benefit customers, there are two areas of performance I intend to highlight that demonstrate PAWC's rate of return should be increased under these provisions: (1) small and troubled water and wastewater system acquisitions, receiverships, and leadership and (2) the cost savings created by the Company's commitment to seeking PENNVEST funding for its infrastructure investments.[1]

Q. HAVE CUSTOMERS OPPOSED THIS RATE INCREASE AND RAISED CONCERNS ABOUT PAWC'S CUSTOMER SERVICE AND QUALITY OF WATER?

A. Yes. According to OCA's most recent compilation of customer response to this rate increase, there have been 147 formal consumer complaints and 364 informal consumer complaints. Numerous residential customers testified in opposition to this rate increase at the public hearings. As a result of these significant bill increases, the Commission should carefully examine the adequacy and quality of customer service provided by PAWC, as well as the specific investments that form the basis for most of PAWC's proposed rate increases. I attach a summary of the customer testimony at the public hearings that was

[1] PAWC St. No. 1, page 9, lines 24-29.

prepared under my direction. I attach this summary with citations to customer testimony as Appendix A to my direct testimony.

I. PAWC'S SERVICE QUALITY AND CUSTOMER SERVICE PERFORMANCE IS DIRECTLY RELATED TO THIS RATE CASE

Q. WHAT IS THE CONNECTION BETWEEN YOUR DISCUSSION OF SERVICE QUALITY AND CUSTOMER SERVICE PERFORMANCE AND THE RATE INCREASE PROPOSED BY PAWC?

A. A public utility in Pennsylvania is statutorily obligated to provide adequate and reasonable service to its customers. A public utility must justify its rates based on, among other things, its ability to perform its essential quality of service and customer service functions at an adequate and reasonable performance level. Accordingly, where a public utility is seeking a rate increase – especially a significant one, and, where, as in this case, the utility is asking for a reward in the form of a higher rate of return based on its performance, it is appropriate to review the performance of that utility and to compare such performance to other Pennsylvania utilities. Therefore, my evaluation of PAWC's customer service and consumer protection policies is directly related to the Commission's consideration of the Company's general rate increase. In effect, it is part of the consideration by the Commission to determine whether PAWC is upholding its end of the bargain.

Furthermore, PAWC seeks an incentive in this case under Section 523 of the Public Utility Code. PAWC requests that the Commission's adopt the higher end of its requested return on equity based on its management performance. My evaluation of PAWC's customer service and consumer protection policies is directly related to the Commission's consideration of Company's request for the higher return on equity.

My analysis and findings should inform the Commission on the reasonableness of PAWC's significant rate increase request. Where I identify deficiencies in PAWC's customer service performance, I recommend that the Commission order improvements in specific areas as a condition of any rate increase and consider adopting any rate increase and rate of return that reflects the inadequate customer service I have documented. I may also recommend that the Commission disallow certain incurred costs on the basis of the Company's continuing poor management performance or management negligence. My focus on these issues and response to my findings reflect the statutory guidelines of Section 523 governing public utility rate cases in which the Commission must evaluate the "efficiency, effectiveness, and adequacy of service."[2] I address the implications for customer service performance below.

II. PAWC'S CONSUMER SERVICE PERFORMANCE AND COMPLIANCE WITH CHAPTER 14 OF THE PUBLIC UTILITY CODE AND CHAPTER 56 OF THE COMMISSION'S REGULATIONS AND RELATED OBLIGATIONS

Q. HAVE YOU EXPLORED HOW PAWC ENSURES COMPLIANCE WITH PENNSYLVANIA-SPECIFIC CONSUMER PROTECTION POLICIES?

A. I have explored PAWC's customer service performance and how PAWC ensures that its interactions with Pennsylvania customers comply with the Pennsylvania consumer protection and customer rights laws and regulations. To evaluate PAWC's compliance programs and management oversight, it is important to understand its corporate organization and the various means by which Pennsylvania customers interact with PAWC and its affiliate, Service Company.

[2] 66 Pa. C.S. 523.

Q. CAN YOU PLEASE EXPLAIN YOUR UNDERSTANDING OF PAWC'S CORPORATE STRUCTURE AS IT PERTAINS TO PAWC AND ITS SERVICE COMPANY?

A. Yes, based on the Company's filing, the Company's responses to discovery in this proceeding and my findings as set forth in my testimony in prior PAWC proceedings, my understanding of the corporate structure is as follows:

- PAWC is the subsidiary of American Water Works Company, Inc. (Parent Company), a parent company headquartered in Camden, New Jersey, that manages and operates many geographically disparate water and sewer utility subsidiary companies. The Parent Company has service territories in 14 states and 1,700 communities[3], primarily in Pennsylvania, Illinois, New Jersey, Missouri, Indiana, and West Virginia, however the Parent Company does operate in other states.
- The Parent Company, through the Service Company, provides PAWC with call answering and customer service. Management structure within the Service Company is responsible for multiple state activities. The Service Company's Customer Service Organization (CSO) provides call handling, billing, field services coordination, and other customer service functions for all of the Parent Company's regulated operations, including PAWC.
- The CSO is led and overseen by a Vice President and Chief Customer Officer of the Service Company. This executive is not dedicated to PAWC's customer service operations, instead performing the management and oversight functions for all of the regulated utility subsidiaries of the Parent Company, including PAWC.
- There is one person authorized to "answer customer questions" in the City of

[3] https://www.amwater.com/corp/About-Us/our-states-subsidaries

York municipal office[4], but there are no physical customer service offices in Pennsylvania where PAWC's customers can go and interact in a personal manner with employees to resolve questions or complaints or engage in payment arrangements related to PAWC's service. Customers are required to call the toll-free number on their bill or included in any collection notice to speak to a PAWC representative.

- PAWC customer calls are answered by call centers staffed by Service Company employees, and such employees are located at multiple locations, most of which are not located in Pennsylvania.[5] All of the Service Company's customer service representatives and their managers work remotely (telework). In addition, the Service Company has contracted with several third-party entities to handle customer calls, both outbound and inbound calls, and most of those contractors rely on agents who telework as well. There are 109 full-time and 13 part-time employees of the Service Company and 154 full-time employees of the third-party contractors who are identified by PAWC as trained to handle Pennsylvania customer calls.[6]
- The Service Company employees and contractors are not dedicated to PAWC's customer service operations, instead performing their duties for all of the regulated utility subsidiaries of the Parent Company in 14 states, including PAWC.
- The calls handled by Service Company's employees and third-party contractors make use of internal software that tracks interactions with customers across all utility subsidiaries of the Parent Company, including PAWC. The software reflects service

[4] PAWC Response to OCA-03-005. This response also states that there are 12 PAWC "customer advocacy team" representatives at their Mechanicsburg PA office who can "speak" to customers and handle complaints. However, there is no customer information that includes that office or its location in any web portal or notice issued by the Company. The location in question is not a walk in office.
[5] Two of the three call center contractors are located outside of Pennsylvania. PAWC Response to OCA-14-003.
[6] PAWC Response to OCA-03-004 confirms that all customer service agents work virtually.

issues, billing issues, collection issues, and related policies in all state utility subsidiaries' operations. Calls from PAWC customers are directed to a customer service representative (whether to an employee or third-party contractor) who has passed a "test" that is intended to reflect the individual representative's passing knowledge of Pennsylvania specific collection rights and remedies. According to PAWC, the number of customer service representatives employed by the Parent Company, who are authorized to handle calls for Pennsylvania varies by month but in 2025 averaged 115-120 agents each month.[7] However, this information is tracked only for employees of American Water and not the third-party contractor call centers. PAWC has identified the total number of call center representatives both employed directly and via the third party contractors who were authorized to handle Pennsylvania customer calls as 276.[8] Therefore, while over 100 agents are authorized to handle Pennsylvania customer calls are working virtually via the third party contractors, the Company cannot identify or track the individuals who are trained.

- As a result of this corporate structure, it is my opinion that PAWC's management oversight and compliance is needed and necessarily requires routine audits and root cause analysis of customer complaints to identify any failure by the Service Company to properly comply with or implement Pennsylvania laws, regulations, or policies.

Q. DOES PAWC PROPERLY MONITOR AND ENFORCE ITS OWN PERFORMANCE CONTRACT PROVISIONS FOR THESE THIRD-PARTY CALL CENTERS?

A. No. The call centers perform at a dramatically lower level of performance than should be

[7] PAWC Response to OCA-14-023.
[8] PAWC Response to OCA-03-004.

tolerated or that reflects the contractual provisions between American Water Works and these third-party call centers. I attach the monthly performance of each third-party contractor as Exhibit BA-2.[9] The 2024 and 2025 annual average percentage of calls answered within 60 seconds is 47% and 44%, respectively, for one contractor, and 31% and 22%, respectively, for the other contractor. The annual average abandonment rate reflects similarly poor and unacceptable performance: 19% for one contractor for both 2024 and 2025, and 20% in 2024 and 23% in 2025, for the other contractor. The actual performance varies widely by month so that in some months PAWC customers experience abandonment rates of over 25%.

Q. DOES PAWC HAVE AN INTERNAL OBJECTIVE FOR CALL HANDLING PERFORMANCE?

A. Yes. PAWC's stated objective for 2026 is to answer 80% of the calls within 60 seconds[10] and experience an abandonment rate of 8% or less.[11] Clearly, PAWC's contractors, the costs for which are included in its revenue requirement in this proceeding, fail to come close to these performance objectives. Furthermore, both of these call center performance standards reflect a lower level of performance compared to Pennsylvania's electric and natural gas distribution companies as reflected in annual reports published by the Commission.[12]

Q. DOES PAWC CONDUCT THE PROPER LEVEL OF MANAGERIAL OVERSIGHT

[9] PAWC Response to OCA-15-001, Attachment (two documents).
[10] PAWC Response to OCA-14-017.
[11] PAWC Response to OCA-14-018.
[12] The Commission requires electric and natural gas distribution companies to report call center performance for the percentage of calls answered within 30 seconds and the call abandonment rate. The typical performance reported by these public utilities is to answer 80% of the calls within 30 seconds (not 60 seconds), much higher than PAWC. The call abandonment rate varies widely among the electric utilities, but the natural gas call abandonment rate is less than 5%. See, e.g., 2024 Customer Service Performance Report available at: https://www.puc.pa.gov/media/3762/2024-customer-service-performance-report-final.pdf

OF THE SERVICE COMPANY FOR COMPLIANCE WITH PENNSYLVANIA REGULATIONS AND POLICIES VIA AUDITS AND ROOT CAUSE COMPLAINT ANALYSIS?

A. No. PAWC does not conduct audits or root cause analyses of the Service Company's call center operations to affirmatively evaluate whether the call center performance complies with Pennsylvania specific consumer protection regulations and policies.[13] Had PAWC entered an arms-length contract with a non-affiliated, third-party contractor to "contract out" its call center operations, it would seem reasonable, necessary, and appropriate that PAWC obtain contractual protection that would allow it to audit the performance of the contractor from time-to-time, thus ensuring compliance with PAWC's statutory and regulatory obligations. This would allow PAWC to impose contractual remedies, including termination of the contract, should the contractor's performance not be satisfactory. In contrast, the fact that PAWC does not audit the performance of the Service Company's call center operations and has undertaken no actions under its contracts to respond to inadequate or unreasonable performance, as outlined in my testimony, indicates that this affiliated arrangement is lacking a very important arms-length protection for PAWC and PAWC's customers.

Q. PLEASE DESCRIBE THE IMPORTANCE OF UTILITY TRACKING AND EVALUATING ALL COMPLAINTS.

A. Every Pennsylvania public utility is required to educate customers about how to register informal and formal complaints. Informal complaints are resolved informally by the

[13] PAWC Response to OCA-14-024: "Neither PAWC nor its parent company has conducted an audit, site visit, or other evaluation of any of its third-party call center contractors to determine compliance with Pennsylvania specific regulatory requirements since January 2024."

Commission's Bureau of Consumer Services (BCS). Formal complaints are initiated by a customer or group of customers filing a formal complaint with the Secretary's Bureau and the formal complaints are formally adjudicated by an Administrative Law Judge (ALJ) and ultimately the Commission. Utilities also receive "disputes" directly from customers and are obligated to investigate and respond to those issues or indications of dissatisfaction. Customer complaints as a group form a hierarchy or pyramid, where at the bottom level of the pyramid is a large volume of disputes that are handled and resolved by the utility call center representatives; at the next level up in the pyramid is a smaller group of informal complaints that get resolved by BCS; and, at the top of the pyramid is yet a relatively smaller number of formal complaints that get resolved through a formal adjudication of the Commission. Tracking and evaluating disputes and informal or formal complaints are key to ensuring ongoing improvements in customer service because that evaluation is likely to spot the "red flag" that indicates a systemic issue or concern that requires PAWC's management's attention and, in some cases, a change in policy or procedure. In addition, of course, this type of evaluation may also identify violations of the Public Utility Code or the Commission's regulations.

Q. DOES PAWC CONDUCT A PROPER ANALYSIS OF CUSTOMER COMPLAINTS?

A. No. PAWC does not conduct a root cause analysis of customer disputes and complaints. A root cause analysis is a fact-based exercise in which the underlying cause or causes of an undesirable outcome are identified then specific remedial steps are identified and determined to result in correcting or improving the previously identified undesirable result. A list of customer complaints with notations on how that particular complaint was resolved is not a root cause analysis. A root cause is defined as a factor that caused a

nonconformance and should be permanently eliminated through process improvement. The root cause is the core issue, the highest-level cause, that sets in motion the entire cause-and-effect reaction that ultimately leads to the problem(s).

Root cause analysis (RCA) is defined as a collective term that describes a wide range of approaches, tools, and techniques used to uncover causes of problems.[14] Some RCA approaches are geared more toward identifying true root causes than others, some are more general problem-solving techniques, and others simply offer support for the core activity of root cause analysis.

There are many methodologies, approaches, and techniques for conducting root cause analysis, including:

- Events and causal factor analysis: Widely used for major, single-event problems, such as a refinery explosion, this process uses evidence gathered quickly and methodically to establish a timeline for the activities leading up to the accident. Once the timeline has been established, the causal and contributing factors can be identified.
- Change analysis: This approach is applicable to situations where a system's performance has shifted significantly. It explores changes made in people, equipment, information, and more that may have contributed to the change in performance.
- Barrier analysis: This technique focuses on what controls are in place in the process to either prevent or detect a problem, and which might have failed.
- Management oversight and risk tree analysis: One aspect of this approach is the use of a tree diagram to look at what occurred and why it might have occurred.
  - Kepner-Tregoe Problem Solving and Decision Making: This model provides four

[14] https://asq.org/quality-resources/root-cause-analysis

distinct phases for resolving problems:

1) Situation analysis
2) Problem analysis
3) Solution analysis
4) Potential problem analysis

According to the publications developed by the American Society for Quality, and other comparable publications,[15]a proper analysis of any "root cause" requires the identification of "symptoms," which are not actual causes but signs of existing problems, and "first level causes," which are the causes that directly lead to a problem; and "higher level causes," which are links in the chain of cause-and-effect relationships that ultimately create the problem. PAWC compilation of individual customer complaints and their identification of the individual complaint resolution reflects "symptoms" and not the actual underlying cause. That reflects identification of patterns and the underlying facts that contributed to the complaint and complaint patterns.

Q. HOW DOES PAWC OVERESEE THE COMPLIANCE WITH PENNSYLVANIA REGULATIONS WITH ITS THIRD-PARTY CONTRACTORS?

A. PAWC or its Parent Company rely on customer complaints to identify calls that are "mishandled", and the response is to focus on the individual customer service representative for coaching and training. However, PAWC does not separately track customer disputes or informal and formal complaints that reflect interactions with their third-party call contractors. PAWC relies on the Quality Performance Process that identifies customer calls "mishandled or associated with customer complaints."[16] This

[15] There is an extensive body of literature used in the medical community to conduct root cause analysis and develop plans to prevent adverse events. See, e.g., https://www.cms.gov/medicare/provider-enrollment-andcertification/qapi/downloads/guidanceforrca.pdf

[16] PAWC Response to OCA-14-026.

process is described as follows: "In addition to this, agent performance is assessed monthly through the Company's Quality Performance Process, which encompasses coaching on calls identified as mishandled or associated with customer complaints. Customer surveys yielding poor ratings are systematically reviewed, documented, and factored into the agents' monthly quality scores. All relevant calls undergo evaluation, and targeted coaching and training are administered to facilitate improvement."[17]

Q. WHAT IS YOUR CONCLUSION ABOUT PAWC'S OVERSIGHT OF ITS CUSTOMER CALL CENTER PERFORMANCE?

A. It is apparent that PAWC does not conduct any direct oversight of its call center operations and that the Parent Company's oversight of its third-party call centers is seriously defective. The actual call center performance of its third-party call centers who employ over 100 of the agents that are supposedly trained to handle Pennsylvania customer calls, is unreasonable and has been for several years. There is no audit or oversight of the call center's compliance with Pennsylvania's regulations except through customer complaints. PAWC is unable to document any disciplinary action undertaken for any call center employee.

Q. WHAT DO YOU RECOMMEND?

A. I have several recommendations.

- First, PAWC, as a condition of any rate increase in this proceeding, must require that its call centers and its call center performance overall conform, at a minimum, to its corporate call center performance objective of answering 80% or more of the calls within 60 seconds with an abandonment rate of 8% or less. These performance

[17] PAWC Response to OCA-15-002.

objectives should be imposed on call centers operated by its Parent Company and its third-party contractors.

- Second, PAWC should be required to undertake an annual audit and investigation of customer call center compliance with Pennsylvania's regulations by not only investigating customer complaints but affirmatively reviewing a valid sample of customer calls and subsequent transactions to find and respond to potential violations or improperly handled calls. Such audits with their findings and responses in the form of internal action undertaken should be available to stakeholders and submitted as evidence in PAWC's next base rate case. It is unreasonable to rely solely on PAWC's use of "coaching" to respond to findings of improper call handling.
- Third, PAWC should be required to conduct a proper root cause analysis of customer disputes and informal and formal complaints to identify complaint trends, underlying causes, and reforms or other steps undertaken to respond to these findings. PAWC should share its plan to conduct and methodology for a root cause analysis with stakeholders prior to undertaking such analysis. A root cause analysis should be undertaken within six months of the final order in this proceeding and the results shared with stakeholders and included in PAWC's next base rate case filing.
- Fourth, I recommend that, at a minimum, PAWC's performance as I have documented here support the recommendations of other OCA witnesses to oppose PAWC's request for any increase in its rate of return for management performance.
- Finally, I recommend that PAWC's actual costs included in its revenue requirement for third party call centers be penalized in the form of a 10% reduction in response to the oversight failures and poor performance I have documented.

III. PAWC COLLECTS CHARGES FOR THIRD-PARTY WARRANTY SERVICES ON PAWC CUSTOMER BILLS. PLEASE DISCUSS YOUR CONCERNS WITH THIS PROGRAM.

Q. DOES PAWC BILL CUSTOMERS FOR NON-UTILITY SERVICES?

A. Yes. PAWC provides billing services for an entity called "American Water Resources" for "home protection services," a form of warranty or insurance if the customer experiences loss or damage from equipment that is the responsibility of the customer to repair or maintain. American Water Resources is not an affiliate of PAWC nor a subsidiary of the Parent Company.[18] Its website at the bottom in fine print states: **American Water Resources is not owned by American Water but uses the trademark "American Water Resources" under license from American Water. As such, AWR's optional programs are not provided or guaranteed by American Water or its affiliates, and any changes in AWR's prices are not determined or controlled by American Water or its affiliates.**[19] American Water Resources provides the Warranty Services to PAWC customers with whom it has a service contract.

Q. DO YOU HAVE A COMMENT ON WHY AMERICAN WATER RESOURCES USES THIS NAME?

A. This name is clearly intended to link their products with American Water utilities and to provide some indication of approval by American Water utilities. I have had over 40 years' experience in consumer protection policies and programs and there is no other purpose that could legitimately defend this approach other than to suggest to customers

[18] The Parent Company previously owned American Water Resources as a subsidiary, which means American Water Resources was once an affiliate of PAWC. However, the Parent Company sold American Water Resources to Oncourse Home Solutions in December 2021 and, therefore, American Water Resources is currently neither a subsidiary of Parent Company nor an affiliate of PAWC.

[19] https://www.awrusa.com/

that the products and services offered by American Water Resources have some connection to American Water companies. This is true even though the plain language of this disclaimer says otherwise. In fact, American Water Resources is one of several "brands" owned by Oncourse Home Solutions, an entity that markets as American Water Resources, Pivotal Home Solutions, and American Home Solutions.[20] The purpose of using this name and American Water's logo on its marketing materials and offering to use the PAWC bill to obtain payments for these unregulated products and services is to make it more likely that customers will sign up with American Water Resources instead of other home warranty services available in the open market.

Q. WHAT PRODUCTS SOLD BY AMERICAN WATER RESOURCES (ONCOURSE HOME SOLUTIONS) ARE BILLED BY PAWC?

A. The following products or services are billed by PAWC on behalf of American Water Resources (Oncourse Home Solutions):

- Water Line Protection Plans
- Sewer Line Protection Plans
- Cooling & Heating System Repair Plans
- Interior & Exterior Electric Line Plans
- In Home Plumbing Plans
- Gas Line Protection Plans
- Water Heater Repair & Replacement Plans
- Outside Water & Sewer Line Plans
- Appliance Protection Plans
- Electronics Protection Plans
- Heating and Cooling Maintenance Plans[21]

Q. PLEASE EXPLAIN HOW THESE CHARGES APPEAR ON THE CUSTOMER BILL.

A. The sample bill provided by PAWC shows such charges listed on the first page as "protection programs" that is included in the same box as other regulated charges and that

[20] https://www.oncoursehome.com/
[21] PAWC Response to OCA-07-006.

charge is included in the "total amount due."[22] I attach the PAWC response to OCA-07-008 and associated customer bill as Exhibit BA-3. On page 2 of this bill in fine print and as the 7th of 8 items under "explanation of fees and other terms," it states, "Protection programs for water, sewer, and in home plumbing are offered by American Water Resources." It also states that these charges are not regulated by the Commission and that regulated services will not be disconnected for nonpayment of "protection program charges" or charged late fees. The toll-free telephone number for American Water Resources is provided. On page 3 the Account Detail states a line item, "Protection Programs: For inquiries, please call [toll free number]." These charges are then included in "total current period charges." This page also repeats the explanation quoted above that is on page 2 of the bill in the "understanding your bill" section.

Q. WHAT IS THE RELATIONSHIP BETWEEN ONCOURSE HOME SOLUTIONS AND AMERICAN WATER RESOURCES?

A. American Water Resources is owned by and controlled by Oncourse Home Solutions, but this entity is not identified in any PAWC bills or other information that PAWC provides to its customers. Rather, the web portal for Oncourse Home Solutions provides a link to one of their "brands," as American Water Resources.[23] A hot link to American Water Resources is provided and that web portal identifies water line protection programs, sewer line protection programs, and a combination water and sewer line protection program.[24]

Q. WHAT IS THE RELATIONSHIP BETWEEN AMERICAN WATER WORKS OR

[22] PAWC Response to OCA-07-008, Attachment (3 page customer bill)
[23] https://oncoursehome.com/
[24] https://www.awrusa.com/

PAWC AND AMERICAN WATER RESOURCES?

A. While there is no formal corporate relationship between American Water Resources and PAWC or the Parent Company, there are pertinent contractual relationships. These documents allow American Water Resources to use the "American Water" name and logo and allow for American Water Resources to use the PAWC bill to collect their charges.

Q. CAN YOU SUMMARIZE AND FULLY DESCRIBE THIS ARRANGEMENT?

A. Yes.

a. PAWC bills for warranty services (Warranty Services) that are offered and provided by this third-party, non-affiliated company, named American Water Resources, in return for a service fee.

b. PAWC provides these billing services on behalf of American Water Resources pursuant to a Billing Agreement.

c. American Water Resources provides the Warranty Services to PAWC customers with whom it has a service contract. The Warranty Services offered by American Water Resources include repair and maintenance services for covered water service lines owned by customers, sewer service laterals owned by customers, and in-home plumbing.

d. The Warranty Services appear as a line item on PAWC's customer bills as "Protection Programs" in the same box as other regulated charges. These fees are included in the total amount due on the bill. In fine print on the second page of the customer bill, a disclaimer states that the "Protection programs for water, sewer, and in-home plumbing are offered by American Water Resources" and explains that the charges

are not regulated by the Commission and that PAWC's regulated services will not be disconnected for nonpayment or charged late fees in connection with non-payment of the Protection Programs charges.

e. American Water Resources uses the American Water name, logo, and branding; however, American Water Resources has no legal affiliation with PAWC or its Parent Company.

Q. DOES PAWC RECEIVE REVENUES FOR PROVIDING THIS BILLING SERVICE?

A. Yes. The total fee paid by AWR to PAWC for billing service in 2024 was **BEGIN CONFIDENTIAL** [redacted] **END CONFIDENTIAL** To date in 2025 (through October 31), AWR has paid **BEGIN CONFIDENTIAL** [redacted] **END CONFIDENTIAL**[25] PAWC projects **BEGIN CONFIDENTIAL** [redacted] **END CONFIDENTIAL** in annual revenue in 2026 and 2027 from the fees collected from American Water Resources for the Company's billing services provided under the Utility Agreement. The Company included this amount in Account 471 - Miscellaneous Service Revenue for the FTY and the FPFTY, which reduced PAWC's revenue requirement in this case.[26]

Q. HOW MANY PAWC CUSTOMERS ARE ENROLLED IN THESE PROTECTION PLANS?

A. As of October 2025, **[BEGIN CONFIDENTIAL]** [redacted] **[END CONFIDENTIAL]** PAWC residential customers were enrolled in one or more protection services with an average monthly fee of **[BEGIN CONFIDENTIAL]** [redacted] **[END**

[25] PAWC Response to OCA-07-012 (Confidential).
[26] PAWC Response to OCA-07-013 (Confidential).

CONFIDENTIAL][27]

Q. WHAT INSTRUCTIONS ARE GIVEN TO CUSTOMER SERVICE REPRESENTATIVES IF A CUSTOMER CALLS TO DISCUSS OR QUESTION THESE PROTECTION SERVICES?

A. PAWC's training materials state **[BEGIN CONFIDENTIAL]** [redacted] **[END CONFIDENTIAL]** I attach these materials provided in response to OCA-07-010 **CONFIDENTIAL** as Exhibit BA-4.

Q. HAVE YOU REVIEWED THE MARKETING MATERIALS USED BY AMERICAN WATER RESOURCES TO MARKET ITS PRODUCTS TO PAWC CUSTOMERS?

A. Yes. OCA-14-012 requested from PAWC any marketing materials mailed to PAWC customers by American Water Resources in 2025. The Response to this data request makes clear that PAWC has access to materials mailed to its customers by American Water Resources. I attach the first five pages of this 293-page **Confidential** attachment as Exhibit BA-5. This attachment **BEGIN CONFIDENTIAL** [redacted]

[27] PAWC Response to OCA-07-009, Attachment (Confidential).

[redacted]

[redacted] **END CONFIDENTIAL**

Q. PLEASE IDENTIFY YOUR CONCERNS AND RECOMMENDATIONS CONCERNING THIS PROGRAM.

A. My first concern is that I believe that the use of the shared name and logo by American Water Resources would mislead the average PAWC consumer to believe that American Water Resources is legally affiliated with PAWC under the common ownership and management of the Parent Company, but in fact there is no affiliation. The use of the same logo, access to PAWC's bill, the fact that PAWC has in its possession AWR's marketing materials to its customers, and the apparent use of PAWC's customer lists by AWR, suggest that there is in fact a close relationship that cannot be reasonably eliminated by the fine print disclosures. American Water Resources stands to benefit from this false impression as it gives it an unfair advantage over competitors offering similar warranty services to customers in the unregulated market for warranty services and induces consumers to buy from American Water Resources under the false impression that they are buying from a trusted brand. Likewise, PAWC stands to benefit from this false impression as PAWC's collects additional service fees from American

Water Resources under the Utility Billing Agreement as the number of customers being billed for Warranty Services increases.

Q. WHAT IS YOUR SECOND CONCERN?

A. My second concern is that American Water Resources' exclusive marketing and billing arrangement with PAWC is discriminatory to any other provider of these services in PAWC's service territory. The potential effect of discriminatory practices is that consumers pay more for warranty services than might be available from other competitive providers of warranty services in PAWC's service territory. Clearly, American Water Resources is able to promote its services to PAWC customers and collect the fees for its services in a manner not available to any other provider for these non-basic services.

Q. WHAT IS YOUR THIRD CONCERN?

A. My third concern is the charges are presented on the customer's bill in a manner that does not clearly differentiate these unregulated and non-basic services from PAWC's regulated charges. The non-basic services are listed as part of the same box in which the regulated charges are presented, and these non-basic charges are included in the total amount due. This presentation and the use of the logo and name of American Water Resources should be reformed to more clearly differentiate the regulated and non-basic charges included on this PAWC bill.

Q. BASED ON YOUR CONCERNS, WHAT IS YOUR RECOMMENDATION?

A. I recommend that the Commission order the following reforms to this program if it is allowed to continue:

- First, the Commission should order that the marketing of these services be reformed. I recommend requiring that marketing and billing for these services be identified as optional services provided by Oncourse Home Services. The use of the PAWC logo and the fictitious name of American Water Resources (an entity that operates as a "brand" for Oncourse Home Solutions and is adopted specifically to market its products to American Water utility customers) should be prohibited as a basic consumer protection matter. The Commission has the authority to impose such conditions on allowing the use of PAWC's customer lists and access to the PAWC bill by this third-party entity.
- Second, PAWC's customer bill should not include any non-basic charges in the same section and calculation of the regulated service charges. Non-basic charges should be separately identified and disclosed with a separate total with a statement that the customer has the option to include this charge on the monthly PAWC bill or receive a separate bill for these optional services from Oncourse Home Services.
- Third, PAWC's customer service training materials should require PAWC representatives to state that PAWC is paid to promote and bill for these optional Oncourse Home Services and that home protection services are available from a number of providers.
- PAWC should be required to document that it has offered the use of its customer bills for non-basic services to any third-party provider that markets home protection services or, as an option, terminate this program. Among other purposes, such a competitive process may result in less expensive products to PAWC's customers compared to the sole source use of Oncourse Home Solutions.

- Finally, the revenues PAWC receives for these non-basic services should continue to be used to offset revenue requirement recovered from PAWC's ratepayers. I refer to the direct testimony of Lafayette Morgan (OCA St. 1), as he explains that removal of the revenues that PAWC receives from American Water Services would serve to increase the revenue requirement and costs that consumers ultimately must pay. My recommendations regarding American Water Resources are intended to benefit consumers, not harm them, by ending the misleading practice of giving utility consumers the false impression that American Water Resources is affiliated with PAWC and ensuring consumer access to competitive pricing and terms of warranty services by ending PAWC's discriminatory billing practices.

IV. RESPONSE TO THE COMMISSION'S ORDER FOR A ROOT CAUSE ANALYSIS OF PAWC'S SERVICE QUALITY COMPLAINTS IN THE MOST RECENT BASE RATE CASE.

Q. PLEASE SUMMARIZE THE COMMISSION'S DIRECTIVE TO PAWC CONCERNING THE SERVICE QUALITY COMPLAINTS IN THE LAST BASE RATE CASE.

A. In the final order in PAWC's last base rate case issued on July 22, 2024[28] the Commission ordered the Commission staff to investigate the quality of services issues in PAWC's Northeastern Service Territory based on customer complaints and comments filed in that rate case proceeding. The investigation examined several water quality issues: Scranton Water System Chlorine Residual; Manganese Levels in the Northeast; Lake Scranton Turnover; and Main Breaks and Replacement. The Report was filed May

[28] Docket Nos. R-2023-3043189 and R-2023-3043190, Ordering Para. 19, pages 394-395.

7, 2025. The Commission issued the Report with an Executive Summary in August 2025.[29]

Q. PLEASE SUMMARIZE THE COMMISSION'S RESPONSE TO THE STAFF REPORT.

A. The Commission acknowledged the steps that had been taken to respond to these service quality issues, all of which required PAWC to undertake certain investments to correct the service quality deficiencies. The Commission also stated, "However, this report is but one snapshot in time, and to ensure that these apparent improvements continue to result in improved quality of service, the Commission commits to continued monitoring of the PAWC's Northeast Water System."[30]

Q. DID PAWC DISCUSS THIS INVESTIGATION IN ITS FILING IN THIS PROCEEDING?

A. Yes. PAWC witness Runzer (PAWC St. No. 3)[31] referenced this requirement and report as follows:

> Q. In 2024, the PUC opened a quality-of-service investigation for the Company's Northeastern Service Territory and issued a final report in August 2025 at Docket No. M-2024-3051789. What were the overall report findings and has PAWC been asked to respond with additional information on the water quality provided to its systems in the Northeast?
> A. The report did not find any systemic issues across the Northeastern Service Territory that are affecting water service. The report further found that PAWC appears to be proactive in identifying the specific factors causing customer complaints and is utilizing the necessary tools to manage quality-of-service issues and remediate. Following the investigation, PAWC will provide water quality and main break data for its Northeast systems to the Commission's Bureau of Technical Utility Services every six months for the next three years. PAWC will continue to seek opportunities to improve service quality and meet customer needs in the Northeast and across its territories.

[29] Root Cause Analysis Report on Investigation of Quality of Service Issues in Pennsylvania American Water Company's Northeastern Service Territory, Docket No. M-2024-3051789, available at https://www.puc.pa.gov/pcdocs/1889622.pdf
[30] Ibid, page 3.
[31] Page 10.

Q. DO YOU AGREE THAT THE COMMISSION DID NOT FIND SYSTEMIC ISSUES OR THAT "PAWC APPEARS TO BE PROACTIVE IN IDENTIFYING THE SPECIFIC FACTORS CAUSING CUSTOMER COMPLAINTS?"

A. No. The fact that the Commission had to order this investigation based on numerous complaints brought forward in PAWC's last base rate case is indicative that PAWC did not take sufficient action or monitor complaints in a sufficient manner to have initiated responses prior to the last rate case. As noted in the Commission's Report, 30 *pro se* complainants and 50 public comments at the rate case public hearings caused the Commission to order this investigation. PAWC's lack of "proactive" knowledge or investigation of these issues is indicative of its lack of root cause analysis of customer complaints prior to the formal Staff investigation.

Q. HOW SHOULD THE COMMISSION TAKE THIS PRIOR INVESTIGATION AND REPORT INTO CONSIDERATION IN THIS BASE RATE CASE?

A. The fact that the Commission had to order an investigation, require PAWC to cooperate, and take actions in response to the investigation is not evidence of any systemic action by PAWC before the investigation was ordered, rather it is a reflexive after the fact response. I also consider this episode as reflecting a lack of sufficient and proper communications with their customers on service quality issues that informs customers of the steps undertaken to respond to those issues. This episode should be taken into account in considering PAWC's request for higher profits for management performance in this proceeding.

V. PAWC'S TARIFF REVISIONS THAT REQUIRE ADDITIONAL REFORM

Q. PLEASE DISCUSS PAWC'S PROPOSAL FOR A NEW TARIFF PROVISION THAT WOULD ALLOW PAWC TO MANDATE A FLOW LIMITER ON A CUSTOMER'S WATER SERVICE.

A. The Company's proposed Water Tariff proposes a new provision as follows in Section 4.6 Flow Control Device: "The Company may require the installation of a device on the Customer's Service Pipe that controls the rate at which the Customer's service can draw water from the Company's system. The Customer shall be responsible for the costs associated with the installation and maintenance of the flow control device." When asked to identify the criteria or circumstances that would allow the Company to impose such a device, PAWC responded that it would be implemented as follows:

> A flow control device would therefore be required when the Company determines that a customer's rate of withdrawal is creating, or is likely to create, adverse system effects. As noted above, this includes situations where a customer withdraws water at a high rate to fill on-site storage, resulting in pressure impacts on neighboring customers. More broadly, a flow control device may be installed any time the customer's instantaneous usage pattern creates system integrity concerns and regulating the flow rate is necessary to prevent impacts on other customers.[32]

Q. SHOULD THE COMMISSION APPROVE THIS TARIFF PROPOSAL?

A. No.

Q. DO YOU HAVE A CONCERN WITH THE POTENTIAL BREADTH OF THE PROPOSED TARIFF LANGUAGE AS COMPARED TO THE SITUATIONS IDENTIFIED BY THE COMPANY IN THIS DATA RESPONSE?

A. Yes. The potentially broad nature of the authority as reflected in the proposed Tariff language and the lack of any criteria or customer notices associated with the use of this

[32] PAWC Response to OCA-14-38.

authority contribute to my overall recommendation. The data response content is not reflected in the Tariff language. There are far too many unidentified situations in which the Company might choose to use this provision, the implementation of which could seriously impact a residential customer's access to potable water for household needs. Furthermore, the proposed tariff does not include any requirement for customer notice, opportunity to respond, or challenge the proposed flow control device. I also question the language in this proposed Tariff that would require the customer to pay for such equipment and its installation.

Q. PLEASE DISCUSS PAWC'S PROPOSED NEW TARIFF LANGUAGE THAT WOULD REGULATE "FAT, OIL, AND GREASE" (FOG) DISCHARGES.

Q. The proposed Wastewater Tariff (Rules and Regulations, new Section X) allows PAWC to undertake actions to respond to FOG discharges. In response to a question about what customer classes would be impacted by these new provisions, PAWC stated that these provisions are intended to apply only to commercial and industrial customers, not residential customers.[33]

Q. WHAT DO YOU RECOMMEND?

A. The FOG additions to the Company's Wastewater Tariff should explicitly state that these provisions are applicable to commercial and industrial customers.

VI. SUMMARY OF CONDITIONS THAT SHOULD BE ATTACHED TO ANY RATE INCREASE

Q. AS AN OVERVIEW RECOMMENDATION, WHAT IS YOUR OPINION WITH RESPECT TO PAWC'S PROPOSAL FOR ADDITIONAL PROFITS FOR

[33] PAWC Response to OCA-14-41.

MANAGEMENT PERFORMANCE?

A. PAWC's failure to include any customer service or consumer protection performance goals and criteria for its claim of management excellence and reward of a higher rate of return is a serious defect and should contribute to the overall rejection of this proposal by the Company. I support other OCA witnesses in recommending a denial of any increase in the reward to shareholders. The constant and significant rate increases that PAWC has sought and received in recent rate increases does not support a reward of any kind.

Q. PLEASE SUMMARIZE THE RECOMMENDATIONS THAT YOU HAVE DOCUMENTED AND SUPPORTED IN YOUR DIRECT TESTIMONY.

PAWC's customer service performance and management oversight of its internal and external third-party contractors:

- First, PAWC, as a condition of any rate increase in this proceeding, must require that its call centers and its call center performance overall conform, at a minimum, to its corporate call center performance objective of answering 80% or more of the calls within 60 seconds with an abandonment rate of 8% or less. These performance objectives should be imposed on call centers operated by its Parent Company and its third-party contractors.
- Second, PAWC should be required to undertake an annual audit and investigation of customer call center compliance with Pennsylvania's regulations by not only investigating customer complaints but affirmatively reviewing a valid sample of customer calls and subsequent transactions to find and respond to potential violations or improperly handled calls. Such audits with their findings and responses in the form of internal action undertaken should be available to stakeholders and submitted

as evidence in PAWC's next base rate case. It is unreasonable to rely solely on PAWC's use of "coaching" to respond to findings of improper call handling.

- Third, PAWC should be required to conduct a proper root cause analysis of customer disputes, informal, and formal complaints to identify complaint trends, underlying causes, and reforms or other steps undertaken to respond to these findings. PAWC should share its plan to conduct, and methodology for, a root cause analysis with stakeholders prior to undertaking such analysis. A root cause analysis should be undertaken within six months of the final order in this proceeding and the results shared with stakeholders and included in PAWC's next base rate case filing.
- Fourth, I recommend that, at a minimum, PAWC's performance as I have documented here support the recommendations of other OCA witnesses to oppose PAWC's request for any increase in its rate of return for management performance.
- Finally, I recommend that PAWC's actual costs included in its revenue requirement for third party call centers be penalized in the form of a 10% reduction in response to the oversight failures and poor performance I have documented.

<u>PAWC's Relationship with American Water Resources (Oncourse Home Services)</u>:

- First, the Commission should order that the marketing of these services be reformed to require that the marketing and billing of these services be identified as optional services provided by Oncourse Home Services. The use of the PAWC logo and the fictitious name of American Water Resources (and entity the that operates as a "brand" for Oncourse Home Solutions and is adopted specifically to market its products to American Water utility customers) should be prohibited as a basic consumer protection matter. The Commission has the authority to impose such conditions on allowing the use

of PAWC's customer lists and access to the PAWC bill by this third-party entity.

- Second, PAWC's customer bill should not include any non-basic charges in the same section and calculation of the regulated service charges. Non-basic charges should be separately identified and disclosed with a separate total with a statement that the customer has the option to include this charge on the monthly PAWC bill or receive a separate bill for these optional services from Oncourse Home Services.
- Third, PAWC's customer service training materials should require PAWC representatives to state that PAWC is paid to promote and bill for these optional Oncourse Home Services and that home protection services are available from a number of providers.
- PAWC should be required to document that it has offered the use of its customer bills for non-basic services to any third-party provider that markets home protection services or, as an option, terminate this program. Among other purposes, such a competitive process may result in less expensive products to PAWC's customers compared to the sole source use of Oncourse Home Solutions.
- Finally, the revenues PAWC receives for these non-basic services, and their accompanying costs should be shifted to shareholders and not PAWC's ratepayers. I refer to the direct testimony of Lafayette Morgan (OCA St. 1), as he explains that removal of the revenues that PAWC receives from American Water Services would serve to increase the revenue requirement and costs that consumers ultimately must pay. My recommendations regarding American Water Resources are intended to benefit consumers, not harm them, by ending the misleading practice of giving utility consumers the false impression that American Water Resources is affiliated with PAWC and

ensuring consumer access to competitive pricing and terms of warranty services by ending PAWC's discriminatory billing practices.

PAWC's Service Quality Performance:

- In response to the Commission's Report on PAWC's service quality performance for its Northeast Service Territory, I recommend that this episode support the recommendation of myself and other OCA witnesses that PAWC's proposal for a higher rate of return due to management performance be rejected.

PAWC's Tariff Proposals:

- The proposed Tariff language for allowing a flow reduction device to be attached to the customer's pipe should be rejected for the reasons I set forth in my testimony.
- The "Fat, Oil and Grease" (FOG) tariff language should be amended to explicitly reference its applicability to commercial and industrial customers.

Q. DOES THIS COMPLETE YOUR TESTIMONY AT THIS TIME?

A. Yes. However, I reserve the right to supplement this testimony based on pending discovery.

Appendix A

Washington, PA: January 13, 2026, at 1:00 PM (Tr. at 113-266) and 6:00 PM (Tr. at 267-317)

Scranton, PA: January 15, 2026, at 1:00 PM (Tr. at 318-468) and 6:00 PM (Tr. at 469-574)

Harrisburg, PA: January 16, 2026, at 1:00 PM (Tr. at 575-669) and 6:00 PM (Tr. at 670-711)

Reading, PA: January 20, 2026, at 1:00 PM (Tr. at 712-864) and 6:00 PM (Tr. at 865-1008)

Telephonic: January 21, 2026, at 1:00 PM (Tr. at 1009-1237) and 6:00 PM (Tr. at 1238-1429)

Summary of Consumer Testimony

Table of Contents

Affordability / Consumers' Conservation Efforts to Save Money on Bills / Reject Rate Increase / Frequency of Rate Increases 1

Impact of Data Centers on Rates 9

Weather Averaging 10

Customer Service / Water Quality / Service Disruptions 11

Unreasonable Corporate Profits and Expenses 13

Affordability / Consumers' Conservation Efforts to Save Money on Bills / Reject Rate Increase / Frequency of Rate Increases

1. Deborah Lee: Tr. 219. She spoke on how this rate increase would negatively impact seniors, individuals and families on fixed incomes, and everyone struggling with the current high cost of living. She expressed that 21% of Washington county is made up of individuals who are 65 years of age or older and how this rate impact would be especially harmful to these elderly individuals on fixed incomes. She also expressed her discontent with the numerous rate cases filed by the company in recent years highlighting that the company's four rate increases since 2019 has raised typical household bills by double digits each time.

2. Judy Wojanis Page: Tr. 243. She commented on how the proposed increase was too high especially considering the time the increase has been requested.

3. Suzanne Dupilka: Tr. 262. She commented that the rate increases have been constant and that over the years the prices have only gone up and up.

4. Mr. Padgelek: Tr. 252-53. He testified that nearby water consumers pay close to $7 per thousand gallons while he pays close to $18.87. Mr. Padgelek remarked that he would be able to pay what his neighbors are consistently charged but the current price increase would be too much. He also testified that the company is supposed to supply consumers with clean water at a reasonable cost and currently the price is unreasonably high and only going higher.

5. Representative Jim Haddock: Tr. 341-43. He requested a reduction or denial of the rate request. The rate request was less transparent than previous years, noting after doing his own calculations, the rate request will cause a $165 per year increase for residential customers, and $789.96 per year increase for small businesses on average. He noted this company is filing back-to-back rate requests, with very little to show for it besides increasing dividend yield to stakeholders.

6. Representative Kyle Donahue: Tr. 347, 350. He said prior increases have nearly doubled the typical residential water bills in just a few years. Consumers are already struggling with inflation, rising housing costs, healthcare costs, and financial insecurity, and they cannot afford another water/wastewater increase. He noted this is the fourth request for rate increase since 2020. Utilities face no financial risks as they pass cost of capital projects and infrastructure failures to customers.

7. Representative Bridget Kozeroski: Tr. 355-56. She discussed how aging population cannot afford rising rates.

8. Lackawanna County Commissioner Bill Gaughan: Tr. 359-360, 362. He discussed how water is a necessity and rate increases are unreasonable and unaffordable.

9. Mayor Paige Cognetti: Tr. 365-67. She discussed the affordability crisis. She noted that this is the fifth rate increase hearing she's attended in the last couple of years. She requested that the PUC deny the rate request.

10. Mayor Max Conway: Tr. 369-71. He discussed that this is the second rate request from PAWC in just over two years. His constituents express that their water bills are very expensive, in some cases their highest cost utility. He discussed how bills are skyrocketing, costs are still high when customers try to decrease usage, and there has been zero time between rate increases.

11. Lackawanna County Commissioner Thom Welby: Tr. 374-75. He discussed how wastewater bills are more expensive than water bills which he finds "insane."

12. Harry Jadick: Tr. 387-89. He discussed how frequent the rate increases are, and the shareholders are the ones that benefit from regular rate requests. Investments are a regular part of doing business, and the expenses should not be passed onto consumers. He has

looked at the company's financial audits, and he thinks the company is doing well enough to not require a rate increase.

13. Doris Koloski: Tr. 401. She discussed the rate hike and the frequency of the rate increases.

14. Patrick Flynn: Tr. 490-91. Vice President of Scranton City Council and Chairman of Public Works Committee, discussed how constituents are already under real financial pressure and are seeing rising costs in every aspect of their lives. Water bills are becoming a serious financial burden. Scranton residents are paying some of the highest utility costs in the region. An increase will disproportionately impact low-income households, seniors, and people with disabilities. Patrick Flynn discussed how customers are subsidizing American Water's merger with Essential Utilities.

15. Gary Duncan: Tr. 525-27. He discussed how the frequent utility rate increases have an extreme negative impact on the senior population. Seniors often skip flushes and use timers in the shower to save water.

16. Thomas Coyne: Tr. 547. He discussed how rate increases happen too often, and the Company should be blocked from requesting another increase for a number of years.

17. Marion Wildermann: Tr. 568. She discussed how residents in PAWC's territory pay some of the highest utility bills in the country.

18. Senator Judith Schwenk: Tr. 737-744. She discussed how many constituents, both residential and small businesses, cannot afford these significant rate increases and will place an undue burden and severe hardship on many households. She is dismayed by the frequency and volume of rate increases by PAWC. Neighboring boroughs have significantly cheaper rates. She discussed how addition of the CAP rider is evidence that more residential customers are struggling with affording utility bills. Other residential customers will have to subsidize low-income customers' bills through the CAP rider. Rate increases push industrial employers out of the area, placing a greater strain on taxpayers. Tr. at 744.

19. Leroy Reinert: Tr. 750. He discussed how he does not have a choice on who he gets water/wastewater services because PAWC is a monopoly. He wants an opportunity to shop around.

20. Karen Bates: Tr. 758-60. She noted that water and sewer rates have consistently gone up rapidly since PAWC acquired the system, even when number of household members decreased. Customers should not be paying more if service is not improving, especially when life is becoming unaffordable.

21. John Piho: Tr. 772-75. He noted that rate increases will further strain elderly residents limited resources. The rates are not sustainable and are causing families to make hard choices to pay for essentials. Rate increase should be rejected.

22. Joel Jackson: Tr. 787-92. He discussed how his rates for wastewater tripled over the last year. The bill calculation the company estimates is not accurate for the average household. Bills are actually much higher. Rate increases have a severe negative effect on low-income customers. He noted that increases seem to be happening every year.

23. Dave Hurlbrink: Tr. 807-13. He requested that the rate increase be rejected. Company is in violation of used and useful doctrine when it has not completed Exeter system infrastructure improvements promised during its acquisition, so any portion of the increase associated with Exeter system plan should be removed from rate request. Inflated price PAWC paid for Exeter system is responsible for rate shock. Requests PUC reduce ROE until equalization tanks in Exeter system are operational and DEP consent order is satisfied.

24. Carla Seidel: Tr. 819-21. She discussed how her water bill since PAWC's acquisition of the system increased drastically. It is her household's highest utility bill. Increases are not reasonable and affordable, and rate increase should be denied.

25. John Arty: Tr. 826-30. He discussed how he spent thousands of dollars replacing household fixtures to reduce water usage upon recommendation from PAWC. Still, bills remained high. He stopped treating injured back with hot water therapy and stopped watering plants to reduce water bill. Residents in Exeter pay a significantly higher water bill than in other municipalities in PA. PAWC's revenue is increasing.

26. Keith Sauer: Tr. 835-39. He discussed his opposition to the rate increase. He requested that the Commission stop rewarding PAWC's strategy to request high increases on a regular basis, by meeting them in the middle. He paid more to PAWC than his gas and electric utilities combined last year. Customers should not be paying for PAWC's acquisitions of other systems. The CEO of the parent company's compensation is very high and the proposed merger with Aqua would create an anticompetitive monopoly, so the Commission should cap executive compensation.

27. Amanda Johnsen: Tr. 841-42. She requested that the Commission deny the rate increase because rates are unaffordable. Bills do not show actual impact to customers. Her neighbors requested assistance but were denied from CAP.

28. David Shirley: Tr. 855-56. He discussed how the rate increases were exorbitant and unsustainable for residents of Exeter. He is concerned about the company using rates to acquire failing systems.

29. Robert Reiley: Tr. 859-61. He discussed how he has experienced high wastewater bills since PAWC's acquisition of the system, and they are 3-6 times higher than family members that live in areas outside PAWC's service territory. PAWC's high rate requests are an abuse of its monopoly power. He may not be able to retire in Exeter if bills continue to rise. Residents save water by skipping showers, dishwasher use, and toilet flushing.

30. Representative Mark Gillen: Tr. 890-92. He discussed how a constituent reduced flushing his toilet due to rate increases and felt that the company prioritized profit over the people

it serves. Another constituent had plans to move out of the area because he could not afford the water bill. Another constituent could not afford to water his yard. Other constituents were concerned that excessive water rates would damage their retirement plans and the value of property in the area. Another constituent raised concerns about the company's prioritization of profits and executive pay over service. The rate increases are unaffordable.

31. Representative Jacklyn Rusnock: Tr. 899-901. She discussed her opposition to the proposed rate increase because it will place an undue and unfair burden on residents of Exeter Township and surrounding communities. System encourages excessive spending, overexpansion, and poor fiscal discipline, and there is insufficient accountability. Affordability is the main concern.

32. Sherrie Greene: Tr. 908-09. She discussed that when PAWC acquired the system her wastewater bill had a 300% increase.

33. Andrew Wagner: Tr. 911-13. He requested that the Commission reject the rate increase. Seemingly every year PAWC requests another rate increase. Water customers are not given a choice of who their provider is. The company has large profits and continues to acquire systems; this shows that it is not suffering like its customers are suffering. A large amount of customers need assistance and that amount will continue to rise. Small businesses will be forced to raise prices. PAWC receives public funding for infrastructure improvements, so it should not need to increase rates.

34. Kathleen Schwartz: Tr. 915-19. She discussed how her sewer rates rose substantially when system was sold to PAWC. In the last couple of years, her household usage went down, but bills kept increasing. She no longer pressure washes or plants vegetables because she cannot afford water bill. There are no other ways to reduce usage besides skipping laundry and bathing. She is concerned that her home value will be reduced due to increased water and sewage costs. She noted the CEO's high compensation. She requested that the rate increase be rejected.

35. Mark Schlosser: Tr. 921-23. He discussed how he needs to frequently change his household budget to afford water and sewage rates. Members of his household have reduced toilet flushing, showers, and laundry to reduce water usage. Rates are much higher than in municipalities that have not sold their systems. He requested that the rate increase be denied. He noted that PAWC experienced growth in 2025.

36. Theodore Gardella: Tr. 926-28. He noted that PAWC's profits are increasing and executive compensation is high while customers do not receive these increases in compensation. He requested that the PUC reject the rate increase.

37. Dorothy Reilly: Tr. 929-31. She discussed the frequency of the rate increases and thinks that essential water service should not be privatized or monopolized. She reduced toilet flushing to reduce water usage.

38. Jillian Croft: Tr. 934-37. She discussed how she has stopped gardening and started using timers and turning water off and on while showering to reduce water usage. She also turns the water off when brushing her teeth and washing dishes, only washes laundry on quick wash setting, and reduces toilet flushing. Even with the reduction in water usage, they still cannot afford their water and sewer bills. Customers should not be subsidizing executives' compensation packages and infrastructure development in other communities.

39. Eli Stup: Tr. 940. He discussed how PAWC's rates are four times higher than the closest municipality.

40. Philip Macaronis: Tr. 943, 948-49. He discussed the high water bills and how his real estate clients will not move to Exeter because of the high rates. He requested that the PUC deny the rate increase.

41. Kathy Levanga: Tr. 955-58. She discussed how water and sewer bills in her township are significantly higher than bills in other townships. She explained that her family's quality of life has gotten worse because they reduce the amount of showers they take, no longer fill the pool, stopped gardening, reduced toilet flushing, and reduced spending to afford water and sewer bills. Her husband suspended retirement plans because they can't afford the water bills.

42. George Bell: Tr. at 960-62. He noted that this is the fourth increase since 2020. Housing market has stagnated in the area due to rising water and sewer costs.

43. James Quinlan: Tr. at 967. He discussed how he is a senior citizen on a fixed income and he cannot afford the frequent rate increases.

44. Patricia Istenis: Tr. 974-75. She discussed how her family often showers at the health club, skips showers, and reduces toilet flushing to reduce water usage. Despite these efforts, her water bills are increasing.

45. Steve Comuso: Tr. 978-79. He discussed how he showers outside the house three days a week, does not wash his cars, does not garden, and members of his household do not flush the toilet consistently to reduce water usage.

46. John Erbicella: Tr. at 981-83. He discussed how his family saves water by only showering three times a week, using low flow shower heads and toilets, and not watering the grass. Still, his family cannot afford the water bills.

47. Tori Schlegel: Tr. 986-87. She discussed how her bill is higher than family that lives in other states. To conserve water, she fills gallon jugs with water from the shower to use elsewhere when waiting for the water to warm up.

48. Frederick Alexander Alkons: Tr. 997. He discussed how residential customers should not shoulder the costs of removing PFAs from the water supply.

49. Amy Stalnecker: Tr. 1032-33. She testified that she endured the unreasonably high prices charged by PAWC for the past 24 months. She testified how her water and sewer bill was twice the amount her parents pay just six miles away. Ms. Stalnecker further elaborated that she has lived in 30 countries and 5 states and PAWC charges the highest rates by far. Ms. Stalnecker described the inhumane cost cutting measures she has had to take to keep her bill to a reasonable amount, which include but are not limited to, not flushing the toilet after each use, washing hands and face in cold water instead of hot, turning off the shower when soaping and not rinsing, and not always doing laundry when it needs it.

50. Mr. Dugas: Tr. 1044. He testified that residents are asked to stay within their budget and it is time the company is required to do the same.

51. Bill Balint: Tr. 1047. He testified after Mr. Dugas and said that the requested increase by the company was out of step with the current economic realities.

52. John McDermott: Tr. 1126. He testified that although his house is comprised of only two seniors both in their late 70's with no swimming pools or other high water usage issues they pay, on average, $289 per month. Mr. McDermott's further testified that he has seen a 125% increase over a six year period in the prices of his water and sewer bills. Mr. McDermott elaborated that their water bill significantly exceeds their real estate taxes, their gas, and electricity bill.

53. James Docherty: Tr. 1130. He testified that in all his travels he has never met someone who was paying a higher rate for water than he was.

54. Ms. Walker-Montgomery: Tr. 1145. She testified that she opposed the rate increase in its entirety because it was coming off the backs of the people.

55. Suzanne Yenchko: Tr. 1164. She is a former employee of PAWC, and she testified that the double-digit rate requested rate increase was too high. Ms. Yenchko explained that the rate increase should be in line with the current cost of living increase.

56. Annette Miraglia: Tr. 1192-93. She testified that the proposed rate increase is out of line with the standard of living increase. She testified about the steps she has had to take to keep her water bill affordable which included, timing showers, not flushing every time they use the bathroom, waiting until there is a full load of laundry.

57. Shaun Keperling: Tr. 1270-71. He testified that the rates charged by the company have risen to unimaginable heights. Mr. Keperling explained that the wastewater cost per gallon has risen from one cent per gallon to 3.4 cents per gallon. While the water cost has risen from 1.3 cents per gallon to 2.4 cents per gallon. This rise in cost has forced Mr. Keperling and his household to drop their usage from 10,000 gallons per month to 4,300 gallons per month. In order to cut usage to pay a reasonable bill the family has been forced to execute what they consider extreme measures which include, not watering plants or grass, showers are taken at local fitness centers whenever possible, showers at home are limited to just a

few minutes meaning the family does not have the luxury of letting the water run to warm up, and the clothes washer and dishwasher are only ever run on the shortest most water conserving cycles, toilets have been modified to use less water per flush with flushing limited, and water is collected from showers to flush toilets.

58. Ethan Story: Tr. 1275-76, 1278. He testified on behalf of 3,000 members of Coalfield Justice, that this rate increase continues a pattern of shifting the cost of infrastructure investments and shareholder returns onto ratepayers, particularly low and fixed income households. He explained that even the most modest rate increases impose disproportionate hardship and undermine affordability for low-income households. Mr. Story testified that the proposed increase would worsen existing financial strain and may force vulnerable customers to choose between maintaining essential water service and meeting other basic necessities. Mr. Story explained that low-income households have limited ability to reduce water use below basic health and sanitation needs making this proposed rate increase regressive. Mr. Story further testified that since 2020, the company has sought nearly half a billion dollars in cumulative rate increase. Mr. Story identified several communities in both Green and Washington Counties which would face a monthly bill increase of over 20%.

59. Ricaldo Rivera: Tr. 1292. He testified that the company has the highest rates in Lancaster County for water.

60. Benjamin John Chiszar: Tr. 1298-99. He testified that raising rates would place an undue financial burden on families, threaten small businesses, and undermine efforts to promote equitable access to clean water. Mr. Chiszar testified that many Pennsylvania's already struggle with rising costs for necessities including housing, grocers, household goods, automotive costs, health care, and utilities. He explained that increasing water rates would disproportionately impact low and middle-income households forcing them to allocate a larger share of their limited budget to an unavoidable expense. This could force individuals and families to choose between water and other essentials. Mr. Chiszar further testified that for seniors and those on fixed incomes even a modest rate increase has a devastating effect making it harder for them to live independently and with dignity.

61. Daniel Suchy: Tr. 1361. He testified that his fixed charge has gone from $17.34 to up to $35 per month since PAWC took over his service.

62. Mary Nesby: Tr. 1367-68. She is the Mayor of Homestead and Mon Valley advocacy manager for upstream Pittsburgh and the Environmental Justice Table, and she testified in opposition to the rate increase. She discussed that for seniors on fixed income, every dollar matters and that for single mothers ever bill becomes a choice between water, food, medication rent or childcare. The Mayor also testified that for marginalized communities, particularly black communities, these increase land on top of generations of systematic economic harm. The Mayor further stated that water is a basic human right yet year after year the burden of financial stability for large utility companies continues to be placed on the backs of those who can least afford it. She explained that rate increases like the one

proposed by the company continue a patter where marginalized communities are expected to absorb financial hardship quietly while corporation remain protected and profitable.

63. Chief Chakmam-Yajalaji: Tr. 1384. She testified that households could face up to a 41% increase in their water bills with a potential 54% increase to their wastewater bills. She testified that these increases are material especially considering the rising costs of other essentials like housing and food. She further testified that, from an equity standpoint, these rates are regressive and fall most heavily on seniors, fixed incomes, peoples with disabilities, and lineages and families already at risk of arrearage or shutoff. She explained that when water becomes unaffordable, the harm is immediate and destabilizing.

64. Ajaljiv-Chanal-K'in: Tr. 1406-11. He concurred with Chief Chakmam-Yajalaji's testimony and further highlighted how the rate increase would harm seniors, low income, and fixed income households.

65. Lissa Ludinich: Tr. 1391. She testified that her mother has had to resort to extreme measures to reduce her water bill by standing at the sink and bathing herself with a washcloth.

66. Barbara Liuzzo: Tr. 1400. She testified that the rate hike will put many older individuals under a lot of stress especially considering other costs such as taxes and food are rising.

67. Kendra Robinson: Tr. 1417-19. She testified that people are struggling to feed their children and pay other bills due to the high rates the company is charging. She also testified that her household has had to implement extreme measures to combat the exorbitant water rates including not showering regularly.

Impact of Data Centers on Rates

1. Deborah Lee: Tr. 220. She testified that there are current plans to build a data center in South Strabane Township which will consist of 46 buildings on a 1,500 acre campus requiring 1.5 million gallons of water per day with one third of the requirement coming from the public water system. Ms. Lee expressed her strong disapproval of this project and condemned the idea that any part of the costs be borne by residential ratepayers to fund executive compensation and infrastructure for commercial profits.

2. Representative Jim Haddock: Tr. 342. He noted smallest rate increase class was industrial which includes data centers who are taking large volumes of PA water. Regardless, increased industrial expenses will likely get passed onto the customers.

3. Lackawanna County Commissioner Bill Gaughan: Tr. 361. He discussed how data centers consume large amounts of water and will strain infrastructure, negatively affecting residential consumers.

4. Mayor Paige Cognetti: Tr. 367. She discussed her fears of data centers coming in and leaving permanent negative impacts on the area.

5. Nathan Eachus: Tr. 502-05. He, on behalf of Pure Green Bio AG, discussed the extreme volume of water data centers use for cooling, which raises concerns about water availability, water system capacity, and the shifting infrastructure costs and risk onto residential consumers. Water used for cooling would be discharged back into the river at warm temperatures, impacting aquatic life and creating concerns about water quality and treatment costs. The company needs to be more transparent to the public about water supply to data centers.

6. Gary Duncun: Tr. 527. He discussed his concerns about data centers' high water consumption.

7. Thomas Coyne: Tr. 547. He discussed his concerns about data centers' high water usage, while residential consumers are asked to conserve and reduce water usage. Data centers' usage will have downstream and water shed effects.

8. Dorothy Reilly: Tr. 931. She discussed how she is against construction of data centers next to the Schuylkill because of the large water usage.

9. Suzanne Yenchko: Tr. 1165. She testified that residents of Pennsylvania should not have to bear exorbitant future rate increases based on a demand for the increase needs by companies and data centers.

Weather Averaging

1. Commissioner Thom Welby: Tr. 375-76. He discussed that customers shouldn't be paying wastewater costs for water that doesn't go down the drain, and this does not just happen during the summer.

2. Doris Koloski: Tr. 404. She discussed how deduct meters should be installed on all homes without requiring extra payment.

3. Leroy Reinert: Tr. at 759. He wants a deduct meter on water meter, so that his sewer rates can be accurately calculated based on water use that goes into the sewer system. Current bill is not accurate because he uses more water in the summer for washing his car, water that does not go into the sewer system.

4. Karen Bates: Tr. 759. She discussed how customers should not be charged for water that does not go into the sewer system in the wastewater bill.

5. Robert Reiley: Tr. 861. He discussed how PAWC should not include outdoor water usage in wastewater charge.

Customer Service / Water Quality / Service Disruptions

1. Tom Murray: Tr. 247. He testified about the company's failures in customer service. Mr. Murray testified that over the last two years there have been two significant line breaks near his residence which involved damage to a home.

2. Representative Kyle Donahue: Tr. 349. He discussed how PAWC infrastructure upgrades in South Scranton caused significant and prolonged disruptions and later caused two water main breaks.

3. Harry Jadick: Tr. 387. He discussed how construction on infrastructure has left roads without pavement for long periods of time.

4. Doris Koloski: Tr. 402-05. She witnessed a water main break in PAWC's service territory not long ago, noting that she saw water flowing down the street. Her dog groomer canceled an appointment because water main broke and water was turned off. She believes service became worse when the company started replacing infrastructure. Doris Koloski discussed that a few years ago when PAWC did work on her block, she had to put water filters on her sink because of dirty water, and water filters became so clogged she had to get a plumber to change them and a toilet seal that also became clogged from dirty water. Doris Koloski discussed how company kept calling about copper piping in her basement after she already responded to their requests. A service charge was added to her bill for lateness, but she always pays on time. Company says it could have been delayed because of the holiday.

5. Nathan Eachus: Tr. 506. He thinks PAWC should publicly post water quality testing results for Dimock, PA since it is in a fracking zone.

6. Thomas Coyne: Tr. 548-49. He discussed how his water is not clean in his home because of contaminated pipes. He requests that the company provide water filters before the water hits the meters. Water break that happened two weeks earlier flushed his tank which had built up sediment.

7. Dave Hurlbrink: Tr. 808-09. He discussed that PAWC's service does not meet PUC standards for sewage overflows. PAWC management is inefficient for delaying start of construction of equalization tanks and new pump stations. There is risk of sewage overflowing into the Schuylkill River.

8. Kathleen Schwartz: Tr. 917. She discussed how she buys bottled water because the water quality is poor, and there is calcium and lime build-up on appliances. Water pressure is also poor.

9. Mark Schlosser: Tr. 922. He discussed how he needs to use a water softener because the water is very hard which increases water usage.

10. Dorothy Reilly: Tr. 930-31. She discussed that she purchased a reverse osmosis water filter and replace her faucets because of the poor water quality.

11. Philip Macaronis: Tr. 946. He discussed that he has water pressure issues and that he might purchase a pump to increase the pressure.

12. Steve Comuso: Tr. 978-79. He discussed that his family purchases drinking water and washes their laundry at a laundromat because of poor water quality.

13. Frederick Alexander Alkons: Tr. 992-94. He discussed how he had to replace the water softener twice since 2018 because of poor water quality. There were extreme discrepancies between the water bill and the meter reading, with the bill charging for significantly higher usage.

14. Amy Stalnecker: Tr. 1033. She testified that even though she pays exorbitant amounts for her water the quality is seriously lacking. She testified that all of her glasses are stained to a gross white, even after she paid to install a filter on her home. She further testified that there are funky white particles in the bottoms of all her cups.

15. Mr. Skvarla: Tr. 1116. He testified that the quality of the water provided by the company is average to poor. He explained that he had to install a reverse osmosis filter into his house so that he could drink the water. Mr. Skvarla further elaborated that he has to change his filters yearly with the filters coming out colored brown.

16. Fawn Walker-Montgomery: Tr. 1144. She is a resident of McKeesport PA, and testified that she has never been able to drink the water that comes out of her taps in 45 years. Ms. Walker-Montgomery further testified that her water consistently smells like rotten eggs, especially in the morning.

17. Ms. Walker-Montgomery: Tr. 1145. She testified that the first time she had heard about any of the customer assistance programs was at the public input hearing.

18. Shirley Sallmen: Tr. 1219-23. She testified that her water has little black specks in it. She explained that the toilet has to be washed nearly every day because of all the black particles and that when they do laundry there are little black pieces in their clothes. She further testified that she had reached out to the company several times about the problem but nothing had been done to permanently alleviate her water quality issues.

19. Ethan Story: Tr. 1277. He testified that only 17% of individuals are enrolled in the hardship fund reflecting a failing by the company to ensure meaningful access to information.

20. Daniel Suchy: Tr. 1362. He testified that his water quality is poor. Mr. Suchy testified that his water came out brown and that he had to install a whole-house water filtration. Unfortunately even installing this filtration system does not mitigate all of the problems and sometimes the water still comes out brown. On cross examination Mr. Suchy remarked

that before installing the filter there was an unpleasant chlorine smell to the water which would cause his children to complaint about getting a bath or a shower.

21. Kendra Robinson: Tr. 1418-19. She discussed that when she called the company about her poor water quality she was put on hold for over 20 minutes. She testified that she was placed on hold and advised that a supervisor would return her call; however, no return call was made.

22. Kendra Robinson: Tr. 1418-22. She testified that the water the company provides is not even decent. She testified that not only does the water taste terrible, but her family also has had to install a whole house filtration system. Even with this filtration system she testified that the water has caused an adverse impact to her hair and skin. This caused Ms. Robinson to install a second filter on just her shower. Ms. Robinson further testified that due to the poor water quality they had to install a water softener. She further testified that not only is the water quality poor but the pressure of the water is inconsistent. On Cross examination Ms. Robinson testified that she had reached out to the company about the chemical smell of her water but no action has been taken yet by the company to substantially improve the quality of water deliver to her home. She further stated on cross that she would never drink the water coming into her home or feel comfortable allowing her pets to drink the water.

Unreasonable Corporate Profits and Expenses

1. Deborah Lee: Tr. 220. She brought to the attention of everyone that the CEO of American Water Works received more than $8.5 million in total compensation in 2024 which is 110 times more than what a typical household earns.

2. Donna Nedelk: Tr. 225. She commented on the exorbitant executive compensation package of AWK's CEO. Ms. Nedelk further elaborated on the subject by testifying that total executive compensation at American water in 2024 exceeded $23 million.

3. Mr. Murray: Tr. 248. He testified that PAWC's parent company American Waterworks Company has consistently had net income 20% above revenue. Mr. Murray testified that the net profit of PAWC's parent company was $820 million in 2022, $944 million in 2023, and $1.05 billion in 2024.

4. Mr. Padgelek: Tr. 252. Following Mr. Murray's testimony Mr. Padgelek remarked he agreed that $1.05 billion was unreasonably high.

5. Lackawanna County Commissioner Thom Welby: Tr. 374-75. He is concerned that increased rates will go to not only infrastructure improvements but also net profits for the company and its investors.

6. Nathan Eachus: Tr. 507. He discussed how the rate increase should be rejected because ratepayers should not be forced to subsidize private data center infrastructure through higher bills.

7. Amy Stalnecker: Tr. 1031. She called the company's practices of increasing their rates, price gouging. She testified that water is a human need, and the outrageous prices charged by the company is nothing short of diabolical. The practices of PAWC have made her desire to move out of her home and stop investing any more money into the home she purchased.

8. Mr. Skvarla: 1112-13. He testified that American Water Works is worth $26.2 billion with a quarterly gross profit $1.45 billion. Mr. Skvarla further testified that American Water Work's gross profit ending September 30, 2025 was $5.07 billion with a net profit margin of 21.93%.

9. Annette Miraglia: Tr. 1192. She testified that the profit margin of American Water Company was 21.93% and requested that the PUC not put the rate increase on the back of customers one hundred percent and instead investigate how the company is making such a profit.

10. Benjamin John Chiszar: Tr. 1298-1301. He testified that the company applied for the rate increase to make itself a more attractive acquisition for Essential Utilities. He testified that this is a dangerous monopolistic merger that further consolidates water service into just a few hands which, in his view, is legalized corporate corruption. Mr. Chiszar further testified that roughly 40% of the shares of the company's parent company are owned by hedge funds like vanguard, BlackRock, state street, Aristotle, Geod, GQG, Amundi Asset, and T. Rowe Price.

11. Mayor Nesby: Tr. 1371. She testified that access to affordable water is a matter of human dignity. She further testified that each rate case is a choice and to approve the increase would be to choose corporate profit over human lives, over families, and over dignity.

12. Lissa Ludinich: Tr. 1391. She testified that the company is constantly passing unfair costs onto the consumers for repairs and replacement the company knew needed repaired when the systems were purchased. She called into question how a company worth billions of dollars could be asking for $168 million to fix their systems could be good for consumers and good for the neighborhoods. She testified that it is time for the company to reinvest in their business instead of passing it on to the consumers who are already struggling and will struggle more.

Exhibit BA-1

BARBARA R. ALEXANDER
BARBARA ALEXANDER CONSULTING LLC

44 Beech St.
Hallowell, ME 04347

Telephone: (207) 458-1049
E-mail: barbalexand@gmail.com

PRIOR Clients:

AARP
Pennsylvania Office of Consumer Advocate
Public Counsel Unit, Attorney General, Washington
Arkansas Attorney General
The Public Utility Project of New York
Ohio Office of Consumer Counsel
District of Columbia Office of People's Counsel
Delaware Division of Public Advocate
Maryland Office of People's Counsel
TURN (The Utility Reform Network), California

Areas of Expertise:

- Default Service, Consumer Protection, Service Quality, and Universal Service policies and programs associated with the alternative rate plans and mergers;
- Consumer Protection and Service Quality policies and programs associated with the regulation of competitive energy and telecommunications providers;
- The regulatory policies associated with the regulation of Credit, Collection, Consumer Protection, Low Income, and Service Quality programs and policies for public utilities;
- Customer Education and Rate design and pricing policies applicable to residential customers; and
- Advanced Metering Infrastructure and Grid Modernization costs and benefits, time-based pricing proposals, and performance standards.

Prior Employment

DIRECTOR

1986-96

Consumer Assistance Division

Maine Public Utilities Commission *Augusta, Maine*

One of five division directors appointed by a three-member regulatory commission and part of commission management team. Direct supervision of 10 employees, oversight of public utility consumer complaint function, appearance as an expert witness on customer services, consumer protection, service quality and low income policy issues before the PUC. Chair, NARUC Staff Subcommittee on Consumer Affairs.

SUPERINTENDENT

1979-83

Bureau of Consumer Credit Protection
Department of Professional and Financial Regulation *Augusta, Maine*

Director of an independent regulatory agency charged with the implementation of Maine Consumer Credit Code and Truth in Lending Act. Investigations and audits of financial institutions and retail creditors, enforcement activities, testimony before Maine Legislature and U.S. Congress.

Education

JURIS DOCTOR

1973-76

University of Maine School of Law *Portland, Maine*

Admitted to the Bar of the State of Maine, September 1976. Currently registered as "inactive."

B.A. (WITH DISTINCTION) IN POLITICAL SCIENCE 1964-68
University of Michigan *Ann Arbor, Michigan*

Boards and Commissions

Councilor, Winthrop (ME) City Council 2020-2022

Member, Board of Trustees, University of Maine System May 2022 to present
(Nominated by Governor and Confirmed by Maine Legislature)

Publications and Testimony

"How to Construct a Service Quality Index in Performance-Based Ratemaking", The Electricity Journal, April, 1996

"The Consumer Protection Agenda in the Electric Restructuring Debate", William A. Spratley & Associates, May, 1996

Direct Testimony on behalf of the Telecommunications Workers Union, Telecom Public Notice 96-8, Price Cap Regulation and Related Issues, Canadian Radio-Television and Telecommunications Commission, September, 1996. [Analysis of and recommendations concerning the need to regulate service quality in move to price cap regulation]

Direct Testimony on behalf of Public Counsel Section, Office of Attorney General, Docket No. UE-960195, Application by Puget Sound Power and Light Co. And Washington Natural Gas Co. For Approval of Merger), Washington Utilities and Transportation Commission, September 1996 [Need for and design of a Service Quality Index for both electric and gas business

units as part of a multi-year rate plan]

Consumer Protection Proposals for Retail Electric Competition: Model Legislation and Regulations", Regulatory Assistance Project, Gardiner, ME, October 1996

Direct and Rebuttal Testimony on behalf of the Citizens Utility Board (IL), Docket 96-0178, Illinois Commerce Commission, CUB v. Illinois Bell Telephone Co., January 22, 1997; July 1997. [Analysis of recent service quality performance and recommendations for changes in current service quality performance plan]

Direct and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate, Restructuring Proceedings before the Pennsylvania PUC: PECO Energy; Pennsylvania Power and Light Co.; GPU Energy; Duquesne Light Co.; West Penn Power Co., UGI-Electric, Pennsylvania Power Co., Pike County Light and Power Co. (1997 and 1998). [Specific consumer protection, consumer education and supplier-utility-customer interactions necessary for move to electric restructuring]

"The Transition to Local Telecommunications Competition: A New Challenge for Consumer Protection", Public Counsel Section, Washington Attorney General, October 1997. [Reprinted in part in NRRI Quarterly Bulletin, Vol. 19, N0.1, Spring, 1998]

Direct and Surrebuttal Testimony on behalf of the New Jersey Division of Ratepayer Advocate, Restructuring Proceedings before the New Jersey Board of Public Utilities: Public Service Electric and Gas, Jersey Central (GPU), Rockland Electric Co., Atlantic Electric Co., March-Apri1 1998. [Phase-in and customer enrollment, Code of Conduct, consumer protections associated with the provision of Provider of Last Resort service]

Oppenheim, Gerald (NCLC) and Alexander, Barbara, Model Electricity Consumer Protection Disclosures, A Report to the National Council on Competition and the Electric Industry, April 1998.

Direct and Reply Testimony on behalf of the Maryland Office of People's Counsel, Investigation into Certain Unauthorized Practices (Slamming and Cramming), Case. No. 8776, before the Maryland Public Service Commission, 1998 and 1999.

Direct Testimony on behalf of the Maryland Office of People's Counsel, Universal Service Issues, Case No. 8745, before the Maryland Public Service Commission, November 20, 1998.

"Cramming is the Last Straw: A Proposal to Prevent and Discourage the Use of the Local Telephone Bill to Commit Fraud," NRRI Quarterly Bulletin, Fall. 1998.

Alexander, Barbara, Retail Electric Competition: A Blueprint for Consumer Protection, U.S. Department of Energy, Office of Energy and Renewable Energy, Washington, D.C., October 1998.

Alexander, Barbara, "Consumer Protection Issues in Electric Restructuring for Colorado: A Report to the Colorado Electricity Advisory Panel," on behalf of the Colorado Office of Consumer Counsel, February 1999.

Testimony on Proposed Interim Rules (Consumer Protection, Customer Enrollment, Code of Conduct, Supplier Licensing) on behalf of the New Jersey Division of Ratepayer Advocate before the New Jersey BPU, May 1999.

Direct Testimony on behalf of AARP, West Virginia PUC Investigation into Retail Electric Competition (consumer protection, universal service, Code of Conduct), June 15, 1999.

Direct and Surrebuttal Testimony on behalf of the Pennsylvania OCA, Natural Gas Restructuring proceedings (8 natural gas utilities): consumer protection; consumer education; code of conduct, before the Pennsylvania PUC, October 1999-April 2000.

Comments on Draft Rules addressing Slamming and Cramming (Docket No. RMU-99-7) on behalf of the Iowa Office of Consumer Advocate, before the Iowa Utilities Board, October 1999.

Alexander, Barbara, "Door to Door Sales of Competitive Energy Services," LEAP Letter, January-February 2000 [Wm. A.

Spratley & Associates, Columbus, OH]

Direct Testimony on behalf of the Maine Office of Public Advocate, Central Maine Power Company Alternative Regulation Plan [Docket 99-666] on service quality issues, before the Maine PUC, May 2000.

Direct Testimony on behalf of AARP, Universal Service Programs and Funding of low-income programs for electric and natural gas service, before the New Jersey Board of Public Utilities, Docket No. EX000200091, July 2000.

Comments (on behalf of NASUCA and AARP) on Uniform Business Practices Reports, May and September 2000.

Direct Testimony on behalf of the Pennsylvania OCA, Verizon-Pennsylvania Structural Separation Plan on service quality, customer service and consumer protection issues [Docket No. M-00001353] before the Pennsylvania PUC, October 2000.

Direct and Rebuttal Testimony on behalf of the Maine Office of Public Advocate, Verizon-Maine Alternative Form of Regulation on service quality issues [Docket No. 99-851] before the Maine PUC, January and February 2001.

Direct and Rebuttal Testimony on behalf of the Citizens Utility Board, Nicor Gas Customer Select Pilot Program, on consumer protection and regulation of competitive natural gas suppliers [Docket Nos. 00-0620 and 00-0621] before the Illinois Commerce Commission, December 2000 and February 2001.

Direct and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate on consumer protection and service quality issues associated with the pending merger between GPU Energy and FirstEnergy, before the Pennsylvania PUC, Docket Nos. A-110300F0095 and A-110400F.0040 (February and March 2001)

Direct and Surrebuttal Testimony on behalf of the New Jersey Division of Ratepayer Advocate on consumer protection, service quality, and universal service issues associated with the pending merger between GPU Energy and FirstEnergy, before the New Jersey Board of Public Utilities, Docket No. EM00110870 (April 2001).

Alexander, Barbara, "Default Service: What Should be Done When the Experiment Goes Awry?" (April 2001)

Responsive Testimony on behalf of the New Jersey Division of Ratepayer Advocate on service quality issues associated with a Plan for Alternative Regulation by Verizon-New Jersey, before the New Jersey Board of Public Utilities, Docket No. To01020095 (May 2001).

Direct and Surrebuttal Testimony on behalf of the New Jersey Division of Ratepayer Advocate on service quality, consumer protection, and universal service issues associated with the pending merger between Conectiv and Pepco, before the New Jersey Board of Public Utilities, BPU Docket No. EM101050308 (September and November 2001).

Direct Testimony on behalf of the Public Interest Advocacy Centre (and others) on service quality regulation in the context of price cap rate plans, before the Canadian Radio-Television and Telecommunications Commission, Docket No. CRTC 2001-37 (August 2001).

Alexander, Barbara, "Default Service: What Should be Done when the Experiment Goes Awry?" An Update to the April 2001 paper (October 2001).

Expert Witness Report, Sparks v. AT&T and Lucent Technologies, October 2001 [National class action lawsuit concerning the leasing of residential telephones]

Expert Witness Report, Brown v. Reliant Energy, November 2001 [Claim of negligence in death of elderly resident after disconnection of electric service]

Comments on behalf of the Pennsylvania Office of Consumer Advocate on consumer protection, disclosure, and education program Guidelines applicable to local exchange telephone competition, before the Pennsylvania PUC, January 2002.

Alexander, Barbara, "Default Service for Retail Electric Competition: Can Residential and Low-Income Customers be Protected When the Experiment Goes Awry?" (April 2002) Available at www.ncat.org/liheap/pubs/barbadefault3.doc

Comments on behalf of AARP before the California PUC on CARE (low income program) concerning Rapid Deployment, Rulemaking 01-08-027 (2001 and 2002).

Comments on behalf of Citizens Utility Board before the Illinois Commerce Commission on Proposed Rule to Allow the Use of Credit Scoring to Determine When a Deposit May be Required, ICC Docket No. 01-0644, June 24, 2002.

Comments on behalf of Consumer Groups before the Texas PUC on Rulemaking Proceeding to Amend Requirements for Provider of Last Resort Service, Docket No. 25360, June 28, 2002.

Direct Testimony on behalf of the New Jersey Division of Ratepayer Advocate before the Board of Public Utilities on Joint Petition of New Jersey-American Water Co. and Thames Water Aqua Holding for Approval of a Change in Control of New Jersey-American Water Co., Docket No. WM01120833, July 18, 2002.

Alexander, Barbara, Consumer Education Programs to Accompany the Move to Retail Electric Competition, prepared for the National Association of State Utility Consumer Advocates (NASUCA), July 2002. Available at www.nasuca.org

Direct Testimony on behalf of New Jersey Division of Ratepayer Advocate before the Board of Public Utilities on Petition of NUI Utilities d/b/a Elizabethtown Gas Co. for Approval of Increased Base Tariff Rates and Charges for Gas Service, Docket No. GR02040245, September 6, 2002.

Alexander, Barbara, An Analysis of Residential Energy Markets in Georgia, Massachusetts, Ohio, New York, and Texas, prepared for the National Energy Affordability and Accessibility Project, National Center for Appropriate Technology, September 2002. Available at www.ncat.org/neaap

Direct and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania PUC on Philadelphia Gas Works' Gas Restructuring Filing, Docket No. M-00021612, September 2002 and November 2002.

Direct Testimony on behalf of Consumer Groups before the Texas PUC on Notice and Request of Mutual Energy CPL and Mutual Energy WTU for Approval of Changes in Ownership and Affiliation, Docket No. 25957, October 15, 2002.

Comments on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania PUC, Advanced Notice of Proposed Rulemaking for Revision of Chapter 54 Pertaining to Electric Generation Supplier Licensing, Docket No. L-00020158, March 5, 2003.

Direct and Surrebuttal Testimony on behalf of the New Jersey Division of Ratepayer Advocate before the New Jersey BPU on Jersey Central Power & Light's base rate case proceeding (service quality and reliability of service), Docket No. ER02080506, ERT02080507, and ER02070417, December 2002 and February 2003.

Alexander, Barbara, "Managing Default Service To Provide Consumer Benefits In Restructured States: Avoiding Short-Term Price Volatility" (National Center for Appropriate Technology, June 2003). Available at: http://neaap.ncat.org/experts/defservintro.htm

Comments and Reply Comments on behalf of New Jersey AARP before the New Jersey Board of Public Utilities on Basic Generation Service, Docket No. EO03050394 (August and September 2003).
Direct and Surrebuttal Testimony on behalf of the New Jersey Division of the Ratepayer Advocate before the New Jersey BPU on rate case proceedings for New Jersey-American Water Co., Elizabethtown Water Co., and Mt. Holly Water Co. (service quality and low-income programs and policies), Dockets Nos. WR03070509-WR03070511 (December 2003).

Comments on behalf of the Texas Legal Services Center and other Consumer Groups before the Public Utility Commission of Texas, Proposed Revisions to Chapter 25, Substantive Rules Applicable to Electric Service Providers, Project No. 27084 (December 2003).

Alexander, Barbara, "Natural Gas Price Volatility: Regulatory Policies to Assure Affordable and Stable Gas Supply Prices for Residential Customers," (2004), available at http://www.ncat.org/liheap/news/Feb04/gaspricevol.htm

Alexander, Barbara, "Montana's Universal Systems Benefit Programs and Funding for Low Income Programs: Recommendations for Reform: A Report to AARP" (January 2004).

Comments and Reply Comments on behalf of the Colorado Office of Consumer Counsel before the Public Utilities Commission of Colorado, In the Matter of the Proposed Repeal and Reenactment of all Rules Regulating Gas Utilities (Docket No. 03R-520G) and Electric Utilities (Docket No. 03R-519E) (February and September 2004).

Direct, Rebuttal, and Supplemental Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania PUC, Petition of Duquesne Light Co. for Approval of Plan for Post-Transition Period POLR Services, Docket No. P-00032071 (February-April 2004).

Comments on behalf of AARP before the California PUC, Order Instituting Rulemaking on the Commission's Own Motion to Establish Consumer Rights and Consumer Protection Rules Applicable to All Telecommunications Utilities, R. 00-02-004 (March 2004).

Comments and Reply Comments on behalf of AARP before the Maine PUC, Inquiry into Standard Offer Supply Procurement for Residential and Small Commercial Customers, Docket No. 2004-147 (April 2004).

Comments on behalf of Wisconsin Citizens' Utility Board before the Wisconsin Public Service Commission's Gas Service Standards, Docket No. 1-AC-210 (July 2004).

Comments on behalf of the Colorado Office of Consumer Counsel before the Public Utilities Commission of Colorado, In the Matter of the Proposed Repeal and Reenactment of all Rules Regulating Telephone Utilities and Providers (Docket No. 03R-524T) (September 2004).

Direct Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania PUC, Investigation if Metropolitan Edison Co., Pennsylvania Electric Co. and Pennsylvania Power Co. Reliability Performance, Docket no. I-00040102, [customer service and reliability performance] (June 2004).

Direct and Surrebuttal Testimony on behalf of the Vermont Department of Public Service before the Vermont Board of Public Utilities, Investigation into Successor Alternative Regulatory Plan for Verizon Vermont, Docket 6959 [Service Quality] (November 2004 and March 2005).

Alexander, Barbara, "Vermont Energy Programs for Low-Income Electric And Gas Customers: Filling The Gap" (November 2004), Prepared for AARP Vermont.

Direct and Surrebuttal Testimony on behalf of Wisconsin Citizens' Utility Board before the Wisconsin Public Service Commission, Application of Wisconsin Power and Light Co. for Authority to Increase Retail Electric, Natural Gas and Ripon Water Rates, Docket No. 6680-UR-114 [customer service, credit and collection programs and expenses, low income programs, fixed bill program] (April 2005).

Comments on behalf of the Maine Office of Public Advocate before the Maine Public Utilities Commission, Inquiry into Revisions to Chapter 81, Residential Utility Service Standards for Credit and Collection Programs, and Chapter 86, Disconnection and Deposit Regulations for Nonresidential Utility Service, Docket No. 2005-005 (April and May 2005).

Direct and Rebuttal Testimony on behalf of AARP Montana before the Montana Public Service Commission, Northwestern Energy Electric Cost Tracker, Docket No. D2004.6.90 [Default Service cost recovery policies and integration with low income programs] (December 2004 and July 2005).

Direct Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utilities Commission, Joint Application of PECO Energy Co. and Public Service Electric and Gas Co. for Approval of the Merger of Public Service Enterprise Group, Inc. with and into Exelon Corporation, Docket No. A-110550F0160 [customer service, reliability of service, low income programs] (June 2005).

Direct Testimony on behalf of Illinois Citizens' Utility Board, City of Chicago, and Community Action for Fair Utility Practice, before the Illinois Commerce Commission, Petition to Initiate Rulemaking with Notice and Comment for Approval of Certain Amendments to Illinois Administrative Code Part 280 Concerning Deposit Requests and Deposit Refunds by Utilities, Docket No. 05-0237 (June 2005).

Direct Testimony on behalf of The Utility Reform Network (TURN) before the California Public Utilities Commission, Order Instituting Rulemaking on the Commission's Own Motion to Establish Consumer Rights and Consumer Protection Rules Applicable to All Telecommunications Utilities, Docket R-00-02-004 (August 2005).

Alexander, Barbara, Red Flags for Consumer Protection Policies Governing Essential Electric and Gas Utility Services: How to Avoid Adverse Impacts on Low-Income Consumers, prepared under contract with Oak Ridge National Laboratory Energy Division (October 2005).

Comments on behalf of Texas Office of Public Utility Counsel, Texas Legal Services Center, Texas Ratepayers' Organization to Save Energy and AARP Texas, before the Texas PUC, Evaluation of Default Service for Residential Customers and Review of Rules Relating to the Price to Beat and Provider of Last Resort, Project No. 31416 (March 2006) [Default service policies]

Rebuttal and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania PUC, In the Matter of the Petition of the Pennsylvania Power Co. for Approval of an Interim Provider of Last Resort Supply Plan, Docket No. P-00052188 [Default Service policies] (December 2005 and January 2006).

Direct and Rebuttal Testimony on behalf of the Maine Office of Public Advocate before the Maine PUC, Investigation into Verizon Maine's Alternative Form of Regulation, Docket No. 2005-155 [Retail Service Quality] (January and May 2006).

Alexander, Barbara, "State Developments Changing for Default/Standard Retail Electric Service," Natural Gas & Electricity, September 2006.

Direct and Rebuttal Testimony on behalf of the Government and Consumer Parties (CUB, Attorney General of Illinois) before the Illinois Commerce Commission, Petition to Initiate Rulemaking with Notice and Comment for Approval of Certain Amendments to Illinois Administrative Code Part 280, Docket No. 06-0379 (May and September 2006). [Consumer Protection rules]

Direct Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania PUC, In Re Application of UGI Utilities, Inc., UGI Utilities Newco, Inc., and Southern Union Co., Docket Nos. A-120011F2000, A-125146, A-125146F5000 (June 2006). [Customer Service, Service Quality, and Universal Services]

Direct and Rebuttal Testimony on behalf of the Maryland Office of People's Counsel before the Maryland PSC, In The Competitive Selection of Electricity Supplier/Standard Offer or Default Service for Investor-Owned Utility Small Commercial Customers and, Delmarva Power and Light and Potomac Electric Power Residential Customers, Case No. 9064 (August and September 2006). [Default Service policies]

Direct and Rebuttal Testimony on behalf of the Maryland Office of People's Counsel before the Maryland PSC, In The Matter of the Optimal Structure of the Electric Industry of Maryland, Case No. 9063 (October and November 2006). [Default service policies]

Comments on behalf of AARP Maine before the Maine PUC on various dockets and notices concerning the implementation of Standard Offer Service for residential customers, Docket Nos. 2006-314, 2006-557, and 2006-411 (July-November 2006). [Default service policies]

Comments on behalf of AARP District of Columbia before the District of Columbia PSC, In the Matter of the Development and Designation of Standard Offer Service in the District of Columbia, Case No. 1017 (2006). [Default service policies]

Comments on behalf of AARP New Jersey before the New Jersey Board of Public Utilities, In the Matter of the Establishment of a Universal Service Fund Pursuant to Section 12 of the Electric Discount and Energy Competition Act of 1999, Docket No. EX00020091 (August 2006) [Recommendations for USF program changes]

Direct and Rebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania PUC, Joint Application of Equitable Resources, Inc. and the People's Natural Gas Co., d/b/a Dominion Peoples, for Approval of the Transfer of All Stock Rights of the Latter to the Former and for the Approval of the Transfer of All Stock of Hope Gas, Inc., d/b/a/ Dominion Hope to Equitable Resources, Inc., Docket No. A-122250F5000 (September and October 2006). [Customer Service, Service Quality, and Universal Service issues)

Direct Testimony on behalf of Pennsylvania Office of Consumer Advocate before the Pennsylvania PUC, Pennsylvania PUC v. Natural Fuel Gas Distribution Corp., Docket No. R-00061493 (September 2006) [Supplier Purchase of Receivables Program]

Direct Testimony on behalf of AARP Montana before the Montana Public Service Commission, Joint Application of NorthWestern Energy and BBI to purchase NorthWestern Energy, Docket No. 2006.6.82 [December 2006] [Conditions for approval of merger; low income and customer service programs]

Rebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania PUC, Petition by PPL Electric Utilities Corp. for Approval of a Competitive Bridge Plan, Docket No. P-00062227 (December 2006) [Default Service policies]

Direct and Rebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania PUC, Application of Duquesne Light Company for a Certificate of Public Convenience Under Section 1102(a)(3) of the Public Utility Code Approving the Acquisition of Duquesne Light Holding, Inc. by Merger, Docket A-110150F0035 (December 2006 and January 2007) [Conditions for approval of merger; low income and customer service programs]

Testimony before the House Least Cost Power Procurement Committee, Illinois General Assembly, on HB 1510, on behalf of AARP [March 22, 2007]

Rebuttal and Surrebuttal Testimony on behalf of Pennsylvania Office of Consumer Advocate before the Pennsylvania PUC, Petition of Duquesne Light Co. for Approval of Default Service Plan for January 1, 2008, to December 31, 2010, Docket No. P-00072247 [April 2007] [Default Service policies]

Comments and Reply Comments on behalf of AARP New Jersey before the Board of Public Utilities BGS Working Group concerning BGS procurement policies and proposed demand response program, (March-May 2007) [Default Service policies]

Comments on behalf of AARP New Jersey to the New Jersey BPU Staff on draft proposed USF regulations (May 2007) [Low income program design and implementation]

Alexander, Barbara, Smart Meters, Real Time Pricing, And Demand Response Programs: Implications For Low Income Electric Customers (May 2007)

Direct and Surrebuttal Testimony on behalf of Maine Office of Public Advocate before the Maine Public Utilities Commission, Re: Joint Application for Approvals Related to Verizon's Transfer of Property and Customer Relations to Company to be Merged with and into FairPoint Communications, Inc., Docket 2007-67 (July and September 2007) [Service Quality and Customer Service Conditions for Merger]

Testimony on behalf of AARP Montana before the Montana Public Service Commission, In the Matter of Montana Dakota Utilities Co., Public Service Commission Investigation and Direction on Electric and Natural Gas Universal System Benefits, Docket No. D2006.1.2 (July 30, 2007) [Design and funding for low income programs]

Direct and Surrebuttal Testimony on behalf of Maine Office of Public Advocate before the Maine Public Utilities Commission, Central Maine Power Co. Chapter 120 Information (Post ARP 2000) Transmission and Distribution Utility Revenue Requirement and Rate Design and Request for Alternative Rate Plan, Docket No. 2007-215 (August 30, 2007 and February 2008) [AMI deployment]

Direct and Reply Testimony on behalf of AARP Maryland before the Maryland Public Service Commission, In the Matter of the Commission's Investigation of Investor-Owned Electric Companies' Standard Offer Service for Residential and Small Commercial Customers in Maryland, Case No. 9117, Phase I and II September 2007) [Default Service policies]

Testimony on behalf of AARP Maryland before the Maryland Public Service Commission, In the Matter of the Commission's Investigation of Advanced Metering Technical Standards, Demand Side Management Competitive Neutrality, and Recovery of Costs of Advanced Meters and Demand Side Management Programs, Case 9111 (November 2, 2007) [Default Service policies; AMI deployment]

Comments on behalf of AARP District of Columbia before the D.C. Public Service Commission, In the Matter of The Application Of Potomac Electric Power Co. For Authorization to Establish A Demand Side Management Surcharge and an Advanced Metering Infrastructure Surcharge And to Establish a DSM Collaborative and an AMI Advisory Group, Formal Case No. 1056 (August 10, September 10, November 13, 2007, April 2008) [Default Service policies; AMI deployment]

Comments on behalf of AARP District of Columbia before the D. C. Public Service Commission, Re: The Petition of the Office of the People's Counsel for the District of Columbia for an Investigation into the Structure of the Procurement Process for Standard Offer Service, Formal Case No. 1047 (November 2007) [Default Service policies]

Direct, Rebuttal and Surrebuttal testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania PUC, Petition of the West Penn Power Co. d/b/a Allegheny Power for Approval of its Retail Electric Default Service Program and Competitive Procurement Plan for Service at the Conclusion of the Restructuring Transition Period, Docket No. P-00072342 (February-March 2008) {Default service procurement policies]

Testimony on behalf of AARP before the Virginia Commission on Electric Utility Restructuring in the General Assembly on HB 1523 and SB 311 (January 2007) [Electric Utility Integrated Resource Planning]

Testimony on behalf of AARP before the Ohio House of Representatives on SB 221 (February 2008) [Default Service procurement policies for post-transition period]

Alexander, Barbara, The Federalization Of Energy Prices: How Policies Adopted By The Federal Energy Regulatory Commission Impact Electricity Prices For Residential Customers: A Plain Language Primer (March 2008)

Comments on behalf of AARP before the New Jersey Board of Public Utilities, In the Matter of the Universal Service Fund, Docket Nos. EO07110888 and EX00020091 (April 2008) [low income program; automatic enrollment]

Direct and Surrebuttal testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, PUC v. Columbia Gas of Pennsylvania, Inc., Docket No. R-2008-2011621 (May and June 2008) [rate case: retail gas competition and Purchase of Receivables program]

Direct Testimony on behalf of Public Counsel and the Energy Project before the Washington Utilities and Transportation Commission, WUTC v. Puget Sound Energy, Inc., Docket Nos. UE-072300 and UG-072301 (May 2008) [revisions to Service Quality Index; storm cost recovery; fixed customer charge; low income program funding]

Direct Testimony on behalf of Public Counsel and the Energy Project before the Washington Utilities and Transportation Commission, In the matter of the Application of Puget Holdings LLC and Puget Sound Energy for an Order Authorizing Transaction, Docket No. U-072375 (June 2008) [Conditions for Sale: customer service; low income programs]

Direct Testimony on behalf of Local 223, UWUA before the Michigan Public Service Commission, In the Matter of the application of Detroit Edison Co. for authority to increase its rates, Case No. U-15244 (July 2008) [Customer Service standards; Advanced Metering proposal]

Reply Testimony on behalf of AARP before the Mississippi Public Service Commission, Proceeding to Review Statewide Energy Generation Needs, Docket No. 2008-AD-158 (August 2008) [Integrated Resource Planning]

Comments on behalf of Local 223, UWUA before the Michigan Public Service Commission, In the matter, on the Commission's own Motion, to investigate the development of minimum functionality standards and criteria for advanced metering infrastructure (AMI), Case No. U-15620 {August 2008) [Advanced Metering policies and standards]

Direct and Rebuttal Testimony on behalf of Illinois Citizens Utility Board and AARP before the Illinois Commerce Commission, Citizens Utility Board, Citizens Action/Illinois and AARP vs. Illinois Energy Savings Corp. d/b/a U.S. Energy Savings Corp., Complaint pursuant to 220 ILCS 5/19-110 or 19-115, Docket 08-0175. (August and November 2008) [Investigation of marketing activities and licensing conditions of an alternative gas supplier]

Direct Testimony on behalf of Ohio Partners for Affordable Energy before the Public Utilities Commission of Ohio on filings by electric utilities pursuant to SB 221: Market Rate Option plan filed by FirstEnergy (Case No. 08-936-EL-SSO), Electric Security Plan filed by FirstEnergy (Case No. 08-935-EL-SSO), and Electric Security Plan filed by AEP Ohio (Case No.08-917-EL-SSO & Case No. 08-918-EL-SSO) (September-November 2008) [Default Service procurement policies; energy efficiency and smart meter proposals]

Reply, Surrebuttal, and Supplemental Testimony on behalf of Maryland Office of People's Counsel before the Maryland Public Service Commission, In the Matter of Appropriate Forms of Regulating Telephone Companies, Case No. 9133 (August and October 2008; July 2009) [service quality performance conditions for alternative rate regulation of Verizon-MD]

Comments on behalf of AARP before the Idaho Public Utilities Commission, In the Matter of the Application Of Idaho Power Co. for a Certificate of Public Convenience and Necessity to Install Advanced Metering Infrastructure ("AMI") Technology Throughout its Service Territory, Case No. IPC-E-08-16 (December 2008) [Smart Meter costs and benefits]

Direct and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Joint Application for the Authority and Necessary Certificates of Public Convenience to Transfer all of the Issued and Outstanding Shares of Capital Stock of the Peoples Natural Gas Co. d/b/a Dominion Peoples, Currently owned by Dominion Resources, Inc. to Peoples Hope Gas Companies LLC, an Indirect Subsidiary of Babcock & Brown Infrastructure Fund North America LP, and to Approve the Resulting Change in Control of the Peoples Natural Gas Co. d/b/a Dominion Peoples, Docket No. A-2008-2063737 (December 2008 and July 2009) [Proposed conditions relating to Service Quality and Universal Service programs]

Rebuttal Testimony on behalf of Pennsylvania Office of Consumer Advocate before the Pennsylvania PUC, Petition of PPL Electric Utilities Corp. for Approval of a Default Service Program and Procurement Plan, Docket No. P-2008-2060309 (January 2009) [Retail Market Programs]

Rebuttal Testimony on behalf of Pennsylvania Office of Consumer Advocate before the Pennsylvania PUC, Petition of PECO Energy Co. for Approval of its Default Service Program and Rate Mitigation Plan, Docket No. P-2008-2062739 (January 2009) [Retail Market Programs]

Comments on behalf of AARP before the Mississippi Public Service Commission, In Re: Order Establishing Docket to Consider standards established by the Energy Independence and Security Act of 2007, Docket No. 2008-ad-477 (February 2009) [PURPA Policies; Integrated Resource Planning; Time-Based Pricing]

Co-Author of Comments on behalf of The Utility Reform Network (TURN) before the California Public Utilities Commission, Order Instituting Rulemaking to consider Smart Grid Technologies Pursuant to Federal Legislation and on the Commission's own Motion to Actively Guide Policy in California's Development of a Smart Grid System, Docket R. 08-12-009 (2009 and 2010) [Smart Grid policies]

Direct and Rebuttal Testimony on behalf of the Attorney General of the Commonwealth of Massachusetts before the Department of Public Utilities, Investigation by the Department of Public Utilities on its Own Motion into the Preparation and Response on Fitchburg Gas & Electric Co. d/b/a Unitil to the December 12, 2008 Winter Storm, D.P.U. 09-01-A (March and April 2009) [Investigation of storm restoration practices]

Testimony on behalf of UWUA Local 132 before the California Public Utilities Commission, Southern California Gas Co. Advanced Metering Infrastructure, Docket No. A.08-09-023 (April 2009) [Advanced metering deployment]

Direct and Rebuttal Testimony on behalf of the Delaware Public Service Commission Staff before the Delaware Public Service Commission, In the Matter of the Investigation into the Business and Marketing Practices of Horizon Power and Light, LLC, Docket No. 355-08 (April and June 2009) [Investigation into marketing and contract practices of licensed electricity supplier]

Testimony on behalf of AARP before the District of Columbia Public Service Commission, In the Matter of the Application of Potomac Electric Power Co. for Authority to Establish a Demand Side Management Surcharge and an Advanced Metering Infrastructure Surcharge and to Establish a DSM Collaborative and an AMI Advisory Group, Formal Case No. 1056 (June 2009) [Advanced Metering proposal]

Rebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Petition of Metropolitan Edison Co. and Pennsylvania Electric Co. for Approval of its Default Service Program, Docket Nos. P-2009-2093053 and P-2009-2093054 (June 2009) [Default Service policies]

Alexander, Barbara, with the Assistance of Mitchell, Cynthia and Court, Gill, Renewable Energy Mandates: An Analysis Of Promises Made And Implications For Low Income Customers. Prepared under contract with Oak Ridge National Laboratory UT-Battelle, LLC, Purchase Order No. 4000091296 (June 2009).

Direct Testimony on behalf of the People of the State of Illinois and AARP before the Illinois Commerce Commission, Petition of Commonwealth Edison Co. to Approve and Advanced Metering Infrastructure Pilot, Docket No. 09-0263 (July 2009). [Advanced Metering pilot design and scope]

Direct Testimony on behalf of the Attorney General of the Commonwealth of Massachusetts before the Massachusetts Department of Public Utilities, Massachusetts Electric Company & Nantucket Electric Company d/b/a National Grid, Smart Grid Pilot Proposal, Docket No. 09-32 (August 2009) [Advanced Metering pilot design]

Direct Testimony on behalf of the Attorney General of the Commonwealth of Massachusetts before the Massachusetts Department of Public Utilities, Fitchburg Gas and Electric Co., d/b/a/ Unitil, Smart Grid Pilot Proposal, Docket No. 09-31 (August 2009) [Advanced Metering pilot design]

Direct Testimony on behalf of AARP before the Maryland Public Service Commission, In the Matter of Potomac Electric Power Company and Delmarva Power and Light Company Request for the Deployment of Advanced Meter Infrastructure, Case No. 9207 (October 2009) [Advanced Metering deployment costs and benefits; dynamic pricing proposals]

Direct Testimony on behalf of AARP before the Maryland Public Service Commission, Application of Baltimore Gas and Electric Company for Authorization to Deploy A Smart Grid Initiative and to Establish a Tracker Mechanism For the Recovery of Costs, Case No. 9208 (October 2009) [Advanced Metering deployment costs and benefits; dynamic pricing proposals]

Direct Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania PUC, Petition of PPL Electric Utilities Corporation Requesting Approval of a Voluntary Purchase of Accounts Receivables Program and Merchant Function Charge, Docket No. P-2009-2129502 (October 2009) [Retail competition policies: purchase of receivables programs]

Direct and Cross Reply Testimony on behalf of The Energy Project (Washington) before the Washington Utilities and Transportation Commission, In the Matter of the Petition of Avista Corporation, D/B/A Avista Utilities, For an Order Authorizing Implementation of a Natural Gas Decoupling Mechanism and to Record Accounting Entries Associated With the Mechanism. Docket No. UG-060518 (*consolidated)* (August and September 2009) [Natural gas decoupling proposal; impact on low income customers]

Direct Testimony on behalf of the Attorney General of the Commonwealth of Massachusetts before the Massachusetts Department of Public Utilities, NSTAR Electric Co. Smart Grid Pilot Proposal, Docket No. 09-33 (November 2009) [Advanced Metering pilot design]

Direct Testimony on behalf of Public Counsel Section, Attorney General of Washington, before the Washington Utilities and Transportation Commission, In the Matter of the Joint Application of Verizon Communications Inc. and Frontier Communications Corporation For an Order Declining to Assert Jurisdiction Over, or, in the Alternative, Approving the Indirect Transfer of Control of Verizon Northwest Inc., Docket No. UT-090842 (November 2009) [Service Quality Conditions]

Rebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate, before the Pennsylvania PUC, Petition of Duquesne Light Company for Approval of Default Service Plan for the Period January 1, 2011 through May 31, 201, Docket No. P-2009-2135500 (January 2010) [Retail Competition policies]

Direct, Rebuttal, and Surrebuttal Testimony on behalf of The Citizens Utility Board (CUB), The City of Chicago, and The People Of The State Of Illinois (Attorney General), before the Illinois Commerce Commission, Revision of 83 Ill. Adm. Code 280, Docket No. 06-0703 (January 2010, October 2010, February 2011) [Consumer Protection policies governing electric, natural gas, and water utility service]

Direct and Surrebuttal Testimony on behalf of Maine Office of Consumer Advocate, before the Maine PUC, Central Maine Power Co., Petition Requesting That the Commission Issue an Order to Modify CMP's Service Quality Indicators by Eliminating Or Changing the Current MPUC Complaint Ratio and to Waive Penalties, Docket No. 2009-217 (February and July 2010) [Evaluation of Request for Waiver of Penalty]

Direct, Rebuttal and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate, before the Pennsylvania PUC, Petition of UGI Utilities, Inc.—Gas Division for Approval to Voluntarily Implement a Purchase of Receivables Program and Merchant Function Charge And Of a Potential Affiliated Interest Agreement Between UGI Utilities, Inc.—Gas Division And Affiliated Entities, Docket No. P-2009-2145498 (April and May 2010) [Purchase of Receivables Program Conditions]

Direct Testimony on behalf of the Massachusetts Attorney General, before the Massachusetts Department of Public Utilities, Western Massachusetts Electric Co. Smart Grid Pilot Proposal, Docket D.P.U. 09-34 (May 2010) [Smart Meter and Pricing Pilot evaluation and conditions]

Direct, Rebuttal and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate, before the Pennsylvania PUC, Petition of PECO Energy Company for Approval of its Natural Gas Supplier Purchase of Receivables Program, Docket No. P-2009-2143588 (March, April, and May 2010) [Purchase of Receivables Program Conditions]

Direct and Rebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate, before the Pennsylvania PUC, Petition of Columbia Gas of Pennsylvania, Inc. for Approval to Voluntarily Implement a Modified Purchase of Receivables Program Pursuant to SEARCH Filing Requirement and Interim Purchase of Receivables Guidelines, Docket No. P-2009-2099333 (February and March 2010) [Purchase of Receivables Program Conditions]

Direct, Rebuttal and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate, before the Pennsylvania PUC, Petition of PECO Energy Company for Approval of its Revised Electric Purchase of Receivables Program, Docket No. P-2009-2143607 (February and March 2010) [Purchase of Receivables Program Conditions]

Alexander, Barbara, "Dynamic Pricing? Not So Fast. A Residential Consumer Perspective," The Electricity Journal (July 2010) (http://dx.doi.org/10.1016/j.tej.2010.05.014) [Opposition to Mandatory Time-Based Pricing for residential customers]

Direct, Rebuttal, and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate, before the Pennsylvania PUC, Joint Application of West Penn Power Company doing business as Allegheny Power Company, Trans-Allegheny Interstate Line Company and FirstEnergy Corporation for a Certificate of Public Convenience Under Section 1102(A)(3) of the Public Utility Code Approving a Change of Control of West Penn Power Company and Trans-Allegheny Interstate Line Company, Docket Nos.A-2010-2176520 and A-2010-2176732 (August, September and October 2010) [Service Quality, Customer Service, and Universal Service Program Conditions]

Direct Testimony on behalf of the Pennsylvania Office of Consumer Advocate, before the Pennsylvania PUC, Petition of T.W. Phillips Gas and Oil Co. for Approval of Purchase of Receivables Program, Docket No. P-2009-2099192 (August 2010) [Purchase of Receivables Program Conditions]

Direct Testimony on behalf of AARP, before the Maryland PSC, Application of Baltimore Gas and Electric Company for Authorization to Deploy a Smart Grid Initiative and to Establish a Tracker Mechanism and For the Recovery of Costs, [Petition for Rehearing] Case No. 9208 (August 2010) [Smart Meter Costs and Benefits; Consumer Protections]

Alexander, Barbara, Who Owns And Can Monetize The Greenhouse Gas Emission Reductions That Result From the DOE Low-Income Weatherization Assistance Program? Prepared under contract with Oak Ridge National Laboratory UT-Battelle, LLC, Purchase Order No. 4000091296 (September 2010)

Direct Testimony on behalf of Consumer Advocate Division before the Public Service Commission of West Virginia, Monongahela Power Co. and the Potomac Edison Co., both doing business as Allegheny Power Co., and FirstEnergy Corp. and Trans-Allegheny Interstate Line, Case No. 10-0713-E-PC (October 14, 2010) [Merger: Service Quality, Customer Service, and Universal Service Program Conditions]

Rebuttal Testimony on behalf of the Office of People's Counsel, before the Maryland Public Service Commission, In the Matter of the Merger of FirstEnergy Corp. and Allegheny Energy, Case No. 9233 (October 22, 2010) [Default Service Policies]

Direct Testimony on behalf of Consumer Advocate Division before the Public Service Commission of West Virginia, Appalachian Power co. and Wheeling Power Co., Case No. 10-0699-E-42T (November 10, 2010) [Base Rate Case: reforms to ameliorate rate impacts on low income customers; remote disconnection tariff proposal]

Direct and Rebuttal Testimony on behalf of AARP, before the Illinois Commerce Commission, Commonwealth Edison Co. Petition for Approval of an Alternative Rate Regulation Plan, Docket No. 10-0257 (November and December 2010) [Analysis of consumer protections and risks in alternative rate plan]

Rebuttal Testimony on behalf of the Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Pennsylvania PUC v. Peoples Natural Gas Co., LLC 2010 Base Rate Proceeding, Docket No. R-20102201702 (February 23, 2011) [Purchase of Receivables program]

Expert Report of Barbara Alexander on Behalf of Plaintiffs, Benjamin Berger, individually and on behalf of all other similarly situated and the general public vs. The Home Depot USA, Inc, U.S. District Court, Central District of California, Western Division, Case SACV 10-678 SJO (PLAX**),** March 1, 2011 (Negative Option Sales Method for "tool rental protection")

Direct Testimony on behalf of the Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Joint Application for all the Authority and the Necessary Certificates of Public Convenience to Transfer All of the Issued and Outstanding Shares of Capital Stock of T.W. Phillips Gas and Oil Co., currently owned by TWP, Inc., to LDC Holdings II LLC, an indirect Subsidiary of SteelRiver Infrastructure Fund North America LP, and to Approve the Resulting Change in Control of T.W. Phillips Gas and Oil Co., Docket No. A-2010-2210326 (March 31, 2011) [Service Quality, Customer Service, and Universal Service Program Conditions]

Comments on behalf of AARP before the Public Service Commission of the District of Columbia, Pepco's Proposed AMI Consumer Education Plan, Formal Case No. 1056 (March 30, 2011)

Comments on behalf of AARP before the Public Service Commission of the District of Columbia, Notice of Proposed Rulemaking, Reliability of Service, Formal Case No. 766, 982, 991, and 1002 (April 11, 2011) [Restoration of Service for Major Outage Events]

Direct and Rebuttal testimony on behalf of the Attorney General of Arkansas before the Arkansas Public Service Commission, In The Matter Of The Application Of Oklahoma Gas And Electric Company For Approval Of The Deployment Of Smart Grid Technology In Arkansas And Authorization Of A Recovery Rider And Regulatory Asset, Docket No. 10-109-U (May and June 2011) (Smart Grid costs and benefits; cost recovery; conditions)

Alexander, Barbara, "Retail Electric Competition: Default Service Policies and Residential Customer Migration," Report to AARP (May 2011).

Direct Testimony on behalf of AARP before the Maryland Public Service Commission, In the Matter of Potomac Electric Power Co and Delmarva Power and Light Co. Request for the Deployment of Advanced Meter Infrastructure, Case No. 9207 (June 16, 2011) (Analysis of amended AMI business case; costs and benefits; conditions)

Direct and Reply Comments on behalf of Citizens Utility Board of Oregon before the Public Utility Commission of Oregon, Docket No. UM 1415 (September and October 2011) (Rate Design; time-varying rates)

Alexander Barbara, "The Status of AMI and Dynamic Pricing Programs In Georgia, Alabama, Arkansas, Florida, Louisiana, And Mississippi," Report for AARP (October 2011).

Direct Testimony on behalf of AARP before the Oklahoma Corporation Commission, In The Matter Of The Application of Oklahoma Gas And Electric Company, For An Order Of The Commission Authorizing Applicant To Modify Its Rates, Charges, And Tariffs For Retail Electric Service In Oklahoma, Cause No. PUD 201100087 (November 9, 2011 and November 16, 2011) (revenue requirement and rate design)

Comments on behalf of AARP before the Maryland Public Service Commission, Proposed Revisions to Reliability and Customer Service Regulations, RM 43 (November 16, 2011) (reliability performance standards and customer call center standards)

Direct Testimony on behalf of AARP before the Public Service Commission of the District of Columbia, In the Matter of The Application for Potomac Electric Power Co. for Authority to Increase Existing Retail Rates and Charges for Electric

Distribution Service, Formal Case No. 1087 (December 14, 2011) (AMI cost recovery, Reliability Infrastructure Mechanism surcharge, customer care costs)

Direct Testimony on behalf of AARP and the People of the State of Illinois before the Illinois Commerce Commission, Commonwealth Edison Company, Approval of Multi-Year Performance Metrics Pursuant to Section 16-108(f) and (f-5) of the Public Utilities Act, Docket No. 11-0772 (January 30, 2012) (Performance Metrics relating to AMI deployment; remote disconnection of service)

Direct, Rebuttal, and Surrebuttal Testimony on behalf of Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Joint Petition of Metropolitan Edison Company, Pennsylvania Electric Company, Pennsylvania Power Company, West Penn Power Company, Approval of Default Service Programs, Docket Nos. P-2011-2273650, et al. (February, March and April 2012) (Retail Opt-in Auction, Customer Referral Programs)

Direct Testimony on behalf of the Massachusetts Office of the Attorney General before the Massachusetts Department of Public Utilities, Western Massachusetts Electric Co. 2011 Winter Storm Investigation, Docket No. D.P.U. 11-119-C (March 9, 2012) (Analysis of communications with customers and state and local officials in storm restoration)

Direct Testimony on behalf of AARP and the People of the State of Illinois before the Illinois Commerce Commission, Ameren Utilities, Approval of Multi-Year Performance Metrics Pursuant to Section 16-108(f) and (f-5) of the Public Utilities Act, Docket No. 12-0089 (March 19, 2012) (Performance Metrics for AMI Deployment; remote disconnection of service)

Direct and Rebuttal Testimony on behalf of the Massachusetts Office of the Attorney General before the Massachusetts Department of Public Utilities, National Grid 2012 Smart Grid Pilot Proposal, Docket No. D.P.U. 11-129 (April and May 2012) [Analysis of proposed smart meter and dynamic pricing pilot proposal]

Comments on behalf of AARP before the Maryland Public Service Commission, Dynamic Pricing Implementation Working Group Report, Case Nos. 9207 and 9208 (May 14, 2012) [Design and implementation of Peak Time Rebate programs for Pepco and BGE]

Comments on behalf of AARP before the Public Service Commission of the District of Columbia, Notice of Proposed Rulemaking, Major Event Outage Restoration Plans, Formal Case No. 766, 982, 991, and 1002 (May 29, 2012) [Regulatory reporting requirements for major event outage restoration plans]

Direct Testimony on behalf of The Utility Reform Network (TURN) before the Public Utilities Commission of the State of California, In the Matter of the Application of Pacific Gas and Electric Company Smart Grid Pilot Deployment Project, Application 11-11-017 (May 16, 2012) [Analysis of proposed customer education pilot]

Direct, Rebuttal, and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Petition of PECO Energy Co. for Approval of its Default Service Program, Docket No. P-2012-2283641 (April and May 2012) [Retail Opt-In Auction and Customer Referral Programs]

Direct and Rebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Equitable Gas Co. Request for Approval of Tariffs, Docket Nos. R-2012-2304727, R-2012-2304731, and R-2012-2304735 (July 25, 2012) [Purchase of Receivables Program]

Direct, Rebuttal, and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Petition of PPL Electric Utilities, Inc. for Approval of a Default Service Program and Procurement Plan for the Period June 1, 2013 through May 31, 2015, Docket No. P-2012-2302074 (July and August 2012) [Retail Opt-In Auction and Customer Referral Programs]

Direct, Rebuttal, and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Petition of Duquesne Light Co. for Approval of Default Service Plan for the Period

June 1, 2013 through May 31, 2015, Docket No. P-2012-2301664 (July, August, and September 2012) [Retail Opt-In Auction and Customer Referral Programs]

Affidavit and Expert Report on behalf of Plaintiffs, Bellermann v. Fitchburg Gas & Electric Co., Commonwealth of Massachusetts, Civil Action No. 09-00023 (August 23, 2012) [Analysis of utility storm restoration response]

Direct Testimony on behalf of the Public Utility Law Project (New York) before the New York State Public Service Commission, Proceeding on Motion of the Commission as to the Rates, Charges, Rules and Regulations of Niagara Mohawk Power Corporation For Electric and Gas Service, Case No. 12-E-0201 and 12-G-0202 (August 31, 2012) [Rate case: low income programs, credit and collection policies, service quality]

Comments on behalf of AARP before the Maryland Public Service Commission, In the Matter of the Electric Service Interruptions in the State of Maryland due to the June 29, 2012 Derecho Storm, Case No. 9298 (September 10, 2012) [Analysis of customer communications in major storm restoration for Pepco and BGE]

Comments on behalf of the Ohio Partners for Affordable Energy before the Ohio Public Utility Commission, In the Matter of the Commission's Review of its Rules for Competitive Retail Natural gas Service, Case No. 12-925-GA-ORD, and In the Matter of the Commission's Review of its Rules for Competitive Retail Electric Service, Case No. 12-1924-EL-ORD (January 2013) [retail market regulations, consumer protections, licensing, disclosures]

Direct and Cross Rebuttal Testimony on behalf of Texas Legal Services Center and Texas Ratepayers' Organization to Save Energy before the Public Utility Commission of Texas, Petition by Homeowners United for Rate Fairness to Review Austin Rate Ordinance No. 20120607-055, PUC Docket No. 40627 (February 2013) [low income programs]

Testimony on behalf of AARP before the Connecticut Senate Finance Revenue and Bonding Committee in opposition to proposal for auction of electric customers to retail suppliers, SB 843 (March 4, 2013)

Comments and Reply Comments on behalf of AARP before the Ohio Public Utility Commission, In the Matter of the Commission's Investigation of the Retail Electric Service Market, Case No. 12-3151-EL-COI (March and April 2013) [retail market reforms, default service, and consumer protections]

Direct Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Petition of UGI Utilities, Inc.—Electric Division for Approval of a Default Service Plan and Retail Market Enhancement Programs for 2014-2017, Docket Nos. P-2013-235703 (June 2013) [Retail Market Enhancement programs; referral program]

Direct Testimony on behalf of the Government of the District of Columbia before the District of Columbia Public Service Commission, In the Matter of the Application of the Potomac Electric Power Co. for Authority to Increase Existing Retail Rates and Charges for Electric Distribution Service, Formal Case No. 1103 (August 2013) [low income discount program]

Comments and Reply Comments on behalf of AARP before the Arizona Corporation Commission, Generic, In the Matter of The Commission's Inquiry Into Retail Electric Competition, Docket No. E-00000W-13-0135 (July and August 2013) [implementation of retail electric competition]

Comments on behalf of AARP before the Delaware Public Service Commission, Rulemaking for Retail Electric Competition, PSC Regulation Docket No. 49 (September 2013) [consumer protection regulations for retail electric competition]

Direct Testimony on behalf of AARP before the New Jersey Board of Public Service, In the Matter of the Petition of Public Service Electric and Gas Co. for Approval of the Energy Strong Program, Docket No. EO13020155 and GO13020156 (October 2013) [reliability programs; cost recovery mechanism]

Direct Testimony on behalf of Canadian Office and Professional Employee's Union, Local 378, before the British Columbia Utilities Commission, Re: Fortis BC Energy, Inc. Application for Approval of a Multi-Year Performance Based Ratemaking Plan for 2014 through 2018, Project No. 3698719 (December 2013) [Service Quality Index]

Direct Testimony on behalf of Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Petition of PPL Electric Corp. for Approval of a New Pilot Time-of-Use Program, Docket No. P-2013-2389572 (January 2014) [Design of pilot TOU program; bid out to competitive energy supplier]

Direct, Rebuttal, and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Petition of FirstEnergy Companies (Met-Ed, Penelec, Penn Power, and West Penn) for Approval of a Default Service Programs, Docket Nos. P-2013-2391368, et al. (January-March 2014) [Retail market enhancement programs, referral program]

Direct, Rebuttal, and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Petition of PPL Electric Utilities for Approval of a Default Service Program and Procurement Plan for June 2013-May 2015, Docket No. P-2013-2389572 (January-May 2014) [Retail market enhancement programs, referral program]

Direct and Rebuttal Testimony on behalf of AARP before the Corporation Commission of Oklahoma, Application of Public Service Company of Oklahoma for Adjustment to Rates and Charges and Terms and Conditions of Service for Electric Service in the State of Oklahoma, Cause No. PUD-201300217 (March and May 2014) [AMI cost/benefit analysis and cost recovery; riders and surcharges; customer charge; low income program]

Direct and Reply Testimony on behalf of the District of Columbia Government through its Department of Environment before the Public Service Commission of the District of Columbia, In the Matter into the Investigation into the Issues Regarding the Implementation of Dynamic Pricing in the District of Columbia, Formal Case No. 1114 (April and May 2014) [Dynamic pricing policies and programs for residential customers]

Comments on behalf of AARP before the Delaware Public Service Commission, Rulemaking for Retail Electric Competition, PSC Regulation Docket No. 49 (Revised) (June 2, 2014) [consumer protection regulations for retail electric competition]

Direct and Rebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Petition of Duquesne Light Company for Approval of Default Service Plan For the Period June 1, 2015 through May 31, 2017, Docket No. P-2014-2418242 (July and August 2014) [retail market enhancement programs, referral program]

Direct and Rebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Petition of PECO Energy Co. for Approval of its Default Service Plan for the Period June 1, 2015 through May 31, 2017, Docket No. P-2014-2409362 (June 2014) [retail market enhancement programs, referral program]

Alexander, Barbara, "An Analysis of State Renewable Energy and Distributed Generation Mandates on Low Income Consumers: Recommendations for Reform" (Oak Ridge National Laboratory, DOE, September 2014)

Direct and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Pennsylvania PUC v. West Penn Power, Metropolitan Edison, Penn Power, and Penelec, Dockets Nos. R-2014-2428742-24287245 (November 2014 and January 2015) [FirstEnergy rate cases: customer service; reliability of service; estimated billing protocols; proposed Storm Damage Expense Rider; tariff revisions]

Comments on behalf of Delaware Division of the Public Advocate before the Delaware Public Service Commission, Rulemaking for Retail Electric Competition, PSC Regulation Docket No. 49 (Revised) (January 2015) [consumer protection regulations for retail electric competition]

Reply Testimony of Barbara Alexander before the Public Service Commission of Maryland, In the Matter of the Investigation into the Marketing, Advertising and Trade Practices of Major Energy Electric Services, LLC and Major Energy Services, LLC, Case No. 9346(b) (March 2015) [unfair and deceptive practices; compliance with MD statutes and regulations for electric generation supplier]

Reply Testimony of Barbara Alexander before the Public Service Commission of Maryland, In the Matter of the Investigation into the Marketing, Advertising and Trade Practices of XOOM Energy Maryland LLC, Case No. 9346(a) (March 2015) [unfair and deceptive practices; compliance with MD statutes and regulations for electric generation supplier]

Direct, Surrebuttal and Supplemental Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Commonwealth of Pennsylvania by Attorney General Kathleen Kate, through the Bureau of Consumer Protection and Tanya McCloskey, Acting Consumer Advocate v. Respond Power, Docket No. C-2014-2427659 (May-October 2015) [unfair and deceptive practices; compliance with PA statutes and regulations for electric generation supplier]

Direct Testimony of Barbara Alexander before the Pennsylvania Public Utility Commission, on behalf of the Pennsylvania Office of Consumer Advocate and Bureau of Consumer Protection, Attorney General, Commonwealth of Pennsylvania by Attorney General Kathleen Kate, through the Bureau of Consumer Protection and Tanya McCloskey, Acting Consumer Advocate v. IDT Energy, Inc., Docket No. C-2014-2427657 (April 2015) [unfair and deceptive practices; compliance with PA statutes and regulations for electric generation supplier]

Affidavit of Barbara Alexander before the Pennsylvania Public Utility Commission, on behalf of the Pennsylvania Office of Consumer Advocate and Bureau of Consumer Protection, Attorney General, Commonwealth of Pennsylvania by Attorney General Kathleen Kate, through the Bureau of Consumer Protection and Tanya McCloskey, Acting Consumer Advocate v. Blue Pilot Energy, LLC, Docket No. C-2014- 2427655 (June 2015) [unfair and deceptive practices; compliance with PA statutes and regulations for electric generation supplier]

Direct Testimony of Barbara Alexander before the Pennsylvania Public Utility Commission, on behalf of the Pennsylvania Office of Consumer Advocate and Bureau of Consumer Protection, Attorney General, Commonwealth of Pennsylvania by Attorney General Kathleen Kate, through the Bureau of Consumer Protection and Tanya McCloskey, Acting Consumer Advocate v. Blue Pilot Energy, LLC, Docket No. C-2014- 2427655 (September 2015) [unfair and deceptive practices; compliance with PA statutes and regulations for electric generation supplier]

Reply Testimony of Barbara Alexander before the Public Service Commission of Maryland, In the Matter of the Investigation into the Marketing, Advertising and Trade Practices of Blue Pilot Energy, Case No. 9346(c) (July 31, 2015) [unfair and deceptive practices; compliance with MD statutes and regulations for electric generation supplier]

Direct Testimony of Barbara Alexander before the Washington Utilities and Transportation Commission, on behalf of Public Counsel and the Energy Project, WUTC v. Avista Utilities, Dockets UE-150204 and UG-150205, (July 2015) [Analysis of request for smart meter (AMI) deployment and business case.]

Direct, Rebuttal, and Surrebuttal Testimony of Barbara Alexander before the Pennsylvania Public Utility Commission on behalf of the Office of Consumer Advocate, Joint Petition of Metropolitan Edison Company, Pennsylvania Electric Co., Pennsylvania Power Co., and West Penn Power Co. [FirstEnergy] for Approval of their Default Service Program and Procurement Plan for the Period June 1,2017 through May 31, 2019, Docket Nos. P-2015-2511333, et. al. (January-February 2016) [Retail Market Enhancement Programs: standard offer program and shopping for low income customers]

Alexander, Barbara and Briesemeister, Janee, Solar Power on the Roof and in the Neighborhood: Recommendations for Consumer Protection Policies (March 2016).

Direct, Rebuttal, and Surrebuttal Testimony of Barbara Alexander before the Pennsylvania Public Utility Commission on behalf of the Office of Consumer Advocate, Petition of PPL Electric Utilities Corp. for Approval of a Default Service

Program and Procurement Plan for the Period June 1, 2017 through May 31, 2021, Docket No. P-2015-2526627 (April-May 2016) [Retail Market Enhancement Programs: standard offer program and shopping for low income customers]

Direct, Rebuttal, and Surrebuttal Testimony of Barbara Alexander before the Pennsylvania Public Utility Commission on behalf of the Office of Consumer Advocate, Petition of PECO Energy Co. for Approval of its Default Service Program for the Period from June 1, 2017 through May 31, 2019, Docket No. P-2016-2534980 (June-July 2016) [Retail Market Enhancement Programs: standard offer program and shopping for low income customers]

Direct, Rebuttal Testimony of Barbara Alexander before the Pennsylvania Public Utility Commission on behalf of the Office of Consumer Advocate, Petition of Duquesne Light Co. for Approval of Default Service Plan for the Period June 1, 2017 through May 31, 2021, Docket No. P-2016-2543140 (July-August 2016) [Retail Market Enhancement Programs: standard offer program and shopping for low income customers]

Briesemeister, Janee and Alexander, Barbara, Residential Consumers and the Electric Utility of the Future, American Public Power Association (June 2016)

Direct Testimony of Barbara Alexander before the Washington Utilities and Transportation Commission on behalf of the Public Counsel and The Energy Project, Washington UTC v. Avista Corp. d/b/a Avista Utilities, Dockets UE-160228 and UG-160229 (August 2016) [Base Rate Case and AMI Project analysis of costs and benefits]

Alexander, Barbara, *Analysis of Public Service Co. of Colorado's "Our Energy Future" Initiative: Consumer Concerns and Recommendations,* AARP White Paper (December 2016), attached to the Direct Testimony of Corey Skluzak on behalf of the Colorado Office of Consumer Counsel, Docket No. 16A-0588E (Exhibit CWS-35).

Direct Testimony of Barbara Alexander before the Public Utilities Commission of Ohio on behalf of the Office of Consumer Counsel, In the Matter of the Application of Ohio Power Co. for Authority to Establish a Standard Service Offer Pursuant to R.C. 4928.143, in the Form of an Electric Security Plan, Case No. 16-1852-EL-SSO (May 2017) [Response to proposal for new surcharge for certain distribution grid investments]

Alexander, Barbara, Analysis and Evaluation of PEPCO's Root-Cause Analysis Report: District of Columbia Customer Satisfaction, prepared for the District of Columbia Office of People's Counsel and submitted to the D.C. Public Service Commission in Formal Case No. 1119 (May 2017)

Direct Testimony of Barbara Alexander before the Arkansas Public Service Commission on behalf of the Attorney General of Arkansas, Application of Entergy Arkansas, Inc. for an Order to find Advanced Metering Infrastructure to be in the Public Interest, Docket No. 16-06-U (June 2017) [Analysis of AMI business case; consumer protection policies]

Rebuttal Testimony of Barbara Alexander before the Pennsylvania Public Utilities Commission on behalf of the Office of Consumer Advocate, Pennsylvania PUC, et al., v. Philadelphia Gas Works, Docket No. R-2017-2586783 (June 2017) [Purchase of Receivables Program, customer shopping issues]

Direct and Surrebuttal Testimony of Barbara Alexander before the Maryland Public Service Commission on behalf of the Office of People's Counsel, In the Matter of the Application of Potomac Electric Power Co. for Adjustments to its Retail Rates for the Distribution of Electric Energy, Case No. 9443 (June and August 2017) [Service Quality and Reliability of Service]

Direct Testimony of Barbara Alexander before the Washington Utilities and Transportation Commission, on behalf of the Washington State Office of Attorney General, Public Counsel Unit, W.U.T.C. v. Puget Sound Energy, Dockets UE-170033 and UG_170034 (June 2017) [Base Rate Case: Service Quality Index; customer services]

Direct and Surrebuttal Testimony of Barbara Alexander before the Maryland Public Service Commission on behalf of the Office of Peoples Counsel, In the Matter of the Merger of AltaGas Ltd. And WGL Holdings, Inc., Case No. 9449 (August and September 2017) [Merger: conditions for service quality and reliability of service]

Supplemental Testimony in Opposition to Joint Stipulation and Recommendations of Barbara Alexander before the Public Utilities Commission of Ohio on behalf of the Office of Consumer Counsel, In the Matter of the Application of Ohio Power Co. for Authority to Establish a Standard Service Offer Pursuant to R.C. 4928.143, in the Form of an Electric Security Plan, Case No. 16-1852-EL-SSO (October 11, 2017) [Response to Stipulation approving new surcharge for certain distribution grid investments]

Direct and Rebuttal Testimony of Barbara Alexander on behalf of The Public Utility Project of New York, before the New York Public Service Commission, Case 15-M-0127 In the Matter of Eligibility Criteria for Energy Service Companies, Case 12-M-0476 Proceeding on Motion of the Commission to Assess Certain Aspects of the Residential and Small Non-residential Retail Energy Markets in New York State, and Case 98-M-1343 In the Matter of Retail Access Business Rules (November and December 2017) [Analysis of New York retail energy market for residential customers; recommendations for reform]

Comments of Barbara Alexander before the Delaware Public Service Commission, on behalf of the Delaware Division f the Public Advocate, In the Matter of the Review of Customer Choice in the State of Delaware, Docket No. 15-1693 (December 22, 2017) [Proposals for retail market enhancement programs]

Alexander, Barbara, Analysis and Evaluation of PEPCO's Supplemental Root-Cause Analysis Report: District of Columbia Customer Satisfaction prepared for the District of Columbia Office of People's Counsel and submitted to the D.C. Public Service Commission in Formal Case No. 1119 (January 2018)

Direct, Rebuttal, and Surrebuttal Testimony of Barbara Alexander on behalf of the Office of Consumer Advocate, before the Pennsylvania Utility Commission, Joint Petition of Metropolitan Edison Company Pennsylvania Electric Company, Pennsylvania Power Company, and West Penn Power Company For Approval of their Default Service Program and Procurement Plan for the Period June 1, 2019 Through May 31, 2023, Docket Nos. P-2017-2637855, et seq. (February, March, and April 2018) [Retail Market Enhancement Programs in a default service proceeding]

Direct Testimony of Barbara Alexander on behalf of the Arizona Corporation Commission Staff, before the Arizona Corporation Commission, In the Matter of the Application of Brooke Water, LCC for increase in water rates, Docket No. W-03039A-17-0295 (May 15, 2018) [Analysis of customer service, call center performance, and compliance with prior Commission orders]

Alexander, Barbara, "Residential Demand Charges: A Consumer Perspective," EUCI Conference, Nashville, TN (May 2018)

Direct Testimony of Barbara Alexander in Opposition to the Joint Stipulation and Recommendation on behalf of the Office of the Ohio Consumers' Counsel, before the Public Utility Commission of Ohio, Case No. 17-0032-EL-AIR et seq. (June 15, 2018) [Analysis of the prudence of Duke Energy Ohio's Advanced Metering Infrastructure Deployment and request for inclusion of costs in rate base]

Alexander, Barbara, "Time to End the Retail Energy Market Experiment for Residential Customers," Harvard Electricity Policy Group (June 2018)

Rebuttal Testimony of Barbara Alexander on behalf of the Office of Consumer Advocate, before the Pennsylvania Public Utility Commission, PUC v. Columbia Gas of Pennsylvania, Inc., Docket No. R-2018-2647577 (July 3, 2018) [Analysis of gas utility billing policies for non-commodity services and retail natural gas suppliers]

Direct Testimony of Barbara Alexander on behalf of TURN and Center for Accessible Technology before the California Public Utility Commission, 2018 Rate Design Window, Docket No. A.17-12-011, et al. (October 26, 2018) [Consumer Protections to Accompany the Transition to Default Time of Use Rates for residential customers; analysis of customer education and messaging]

Direct and Surrebuttal Testimony of Barbara Alexander on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Utility Commission, PUC vs. Pittsburgh Water and Sewer Authority, Docket Nos. R-2018-3002645, R-2018-3002647 (September and October 2018) [Analysis of compliance with Pennsylvania consumer protection and service quality performance of a large water and sewer utility; base rate case]

Direct Testimony of Barbara Alexander on behalf of TURN before the California Public Utility Commission, Southern California Edison Charge Ready 2 Infrastructure and Market Education Programs, Docket No. A.18-06-015 (November 30, 2018) [Analysis of proposed mass market customer education proposal]

Direct, Surrebuttal and Supplemental Surrebuttal Testimony of Barbara Alexander on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Implementation of Chapter 32 of The Public Utility Code Regarding Pittsburgh Water and Sewer Authority – Stage 1, Docket Nos. M-2018-2640802 and M-2018-2640803 (April, May and August 2019) [Analysis of consumer protection, customer service, and customer education programs of large water and wastewater utility]

Direct, Rebuttal, and Surrebuttal Testimony of Barbara Alexander on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Application of Aqua America, Inc., Aqua Pennsylvania, Inc., Aqua Pennsylvania Wastewater, Inc., Peoples Natural Gas Company, LLC and Peoples Gas Company, LLC for all of the Authority and the Necessary Certificates of Public Convenience to Approve a Change in Control of Peoples Natural Gas Company, LLC and Peoples Gas Company LLC by Way of the Purchase of All of LDC Funding, LLC's Membership Interests by Aqua America, Inc., Docket Nos. A-2018-3006061, A-2018-3006062, and A-2018-3006063 (April and May 2019) [Customer Service, Consumer Protection, and Universal Service conditions for merger]

Testimony in Opposition to Settlement on behalf of The Office of the Ohio Consumers' Council, before the Ohio Public Utilities Commission, In the Matter of the Commission's Investigation of PALMco Power OH, LLC dba Indra Energy and PALMco Energy OH, LLC dba Indra Energy, Case No. 19-957-GE-COI (September 4, 2019) [Analysis of proposed settlement for consumer protections and customer remedies]

Testimony in Opposition to Settlement on behalf of The Office of the Ohio Consumers' Council, before the Ohio Public Utilities Commission, In the Matter of the Commission's Investigation of Verde Energy USA Ohio LLC, Case No. 19-0958-GE-COI (October 2, 2019) [Analysis of proposed settlement for consumer protections and customer remedies]

Direct Testimony and Supplemental Direct Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Joint Petition of Metropolitan Edison Co., Pennsylvania Electric Co., Pennsylvania Power Co. and West Penn Power Co. for Approval of Their Involuntary Remote Disconnect Procedures, Docket No. P-2019-3013979 et al. (March 20, 2020 and July 15, 2022) [Criteria for remote disconnection of service with AMI]

Rebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Interstate Gas Supply, Inc., Direct Energy Services LLC and Shipley Choice LLC v. Metropolitan Edison Co., Pennsylvania Electric Col, Pennsylvania Power Col, West Penn Power Co., Docket Nos. C-2019-30138-5 et al. (May 2020) [Complaint by retail suppliers seeking to bill non-basic services on utility bill]

Alexander, Barbara, "An Evaluation of Arizona Public Service Company's Customer Education Plan and its Implementation," prepared on behalf of the Staff of the Arizona Corporation Commission, Docket Nos. E-01345A-19-0236 and E-01345A-19-0003 (May 15, 2020)

Direct and Supplemental Testimony, Rebuttal Testimony, and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Petition of PPL Electric Utilities Corporation for Approval of a Default Service Program for the Period of June 1, 2021 through May 31, 2025, Docket No. P-2020-3019356 (June-August 2020) [Standard Offer Program and low income shopping program for retail market programs]

Direct, Rebuttal, and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Petition of PECO Energy for Approval of Default Service Program for the Period June 1, 2021 through May 31, 2025, Docket No. P-2020-3019290 (June-July 2020),) [Standard Offer Program and low income shopping program for retail market programs]

Direct, Rebuttal, and Surrebuttal Testimony, on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Petition of Duquesne Light Co. for Approval of Default Service Program for the Period June 1, 2021 through May 31, 2025, Docket No. P-2020-3019522 (July-September 2020), [Standard Offer Program and low income shopping program for retail market programs]

Direct and Surrebuttal Testimony, on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Pennsylvania Public Utility Commission v. Pittsburgh Water and Sewer Authority, Docket Nos. R-2020-3017951 (water), C-2020-3019348, R-2020-3017970 (wastewater), C-2020-3019349 (July-September 2020) [Base rate case; analysis of customer service and consumer protection programs and policies]

Affidavit of Barbara R. Alexander, Analysis of Washington Gas Light Co. Root Cause Analysis Report, on behalf of the Office of the People's Counsel of the District of Columbia, submitted to the Public Service Commission in Formal Case No. 1142 (October 2020).

Direct and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Pennsylvania Public Utility Commission v. Pennsylvania American Water Co, Docket R-2020-3019369, et al., (September-October 2020) [Base rate case; analysis of customer service and consumer protection programs and policies]

Direct and Surrebuttal Testimony, on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Pennsylvania Public Utility Commission v. Pittsburgh Water and Sewer Authority, Docket Nos. R-2021-3024773, et al. (July-September 2021) [Base rate case; analysis of customer service and consumer protection programs and policies]

Direct and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Pennsylvania Public Utility Commission v. Aqua Pennsylvania, Inc, Docket Nos. R-2021-3027385 et al. (November-December 2021) [Base rate case; analysis of customer service and consumer protection programs and policies]

Direct, Rebuttal, and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Joint Petition of Metropolitan Edison Co., Pennsylvania Electric Co., Pennsylvania Power Co. and West Penn Power Co. for Approval of their Default Service Programs, Docket Nos. P-2021-3030012 et al. (February, March, and April 2022) [Standard Offer program; retail market policies; Time of Use rate option; low income consumer protections]

Direct and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Pennsylvania American Water Co., Docket Nos. R-2022-3031672, et al (July and September 2022) [Base rate case: analysis of customer service and consumer protection performance]

Direct and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, York Water Company base rate increase, Docket Nos. R-2022-3031340, R-2022-3032806 (August and September 2022) [Base rate case: analysis of customer service and consumer protection performance]

Direct, Rebuttal and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Columbia Gas of Pennsylvania Proposal for Green Path Tariff, Docket Nos. R-2022-3032167 and C-2022-3032404 (December 2022 and January and February 2023) [Proposal to offer an optional "green" product to residential customers with Renewable Natural Gas and Carbon Offsets]

Direct, Rebuttal, and Surrebuttal Testimony on behalf of AARP Maine before the Maine Public Utilities Commission, Central Maine Power Company Request for Distribution Rate Increase and Rate Design Changes, Docket No. 2022-00152 (December 2022, March and April 2023) [Rate impacts; multi-year rate plan; rate design]

Direct and Surrebuttal Testimony on behalf of AARP Maine before the Maine Public Utilities Commission, Versant Power Request for Approval of Rate Change, Docket No. 2022-00255 (January and April 2023) [Rate impacts, AMI costs and benefits]

Direct and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utilities Commission, Application of Manwalamink Water and Sewer and NextEra Water Pennsylvania, Docket Nos. A-2022-3035298, et al. (January and March 2023) [consumer protection; service quality; acquisition of small water and sewer utility]

Direct and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utilities Commission, National Fuel Gas Distribution Corp. Base Rate Case, Docket No. R-2022-3035730 (January and March 2023) [analysis of consumer protection and service quality performance in base rate case]

Direct and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utilities Commission, Philadelphia Gas Works Base Rate Case, Docket No. R-2023-3037933 (May and July 2023) [analysis of consumer protection and service quality performance in base rate case]

Direct and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utilities Commission, FirstEnergy Pennsylvania Electric Distribution Companies Application for Merger, Docket No. A-2023-3038771 et.al (June and August 2023) [analysis of implication of proposed merger for customer service performance and low income programs]

Direct and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utilities Commission, Pittsburgh Water and Sewer Authority Base Rate Case, Docket No. R-2023-3039920, et al., (August and September 2023) [customer service performance; compliance with statutory and regulatory rules; multi-year rate plan conditions]

Direct and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utilities Commission, Application of Pennsylvania-American Water Co. to Acquire Wastewater Assets of Borough of Brentwood, Docket No. A-2021-3024058 (October and November 2023) [analysis of public benefits of acquisition]

Direct, Supplemental Direct, and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utilities Commission, Pennsylvania PUC v. Pennsylvania American Water Co., Docket Nos. R-2023-3043189 and R-2023-3043190 (February and March 2024) [customer service performance, compliance with statutory and regulatory rules; billing for non-basic services; tariffs]

Direct and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utilities Commission, Pennsylvania PUC v. Peoples Natural Gas Company LLC, Docket No. R-2023-3044549 (March and May 2024) [customer service performance, compliance with statutory and regulatory rules; billing for non-basic services; tariffs]

Direct, Rebuttal, and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utilities Commission, Petition of PECO Energy for Default Service Program for June 1, 2025 through May 31, 2029, Docket No. P-2024-3046008 (April and May 2024) [Retail Market Enhancement Programs; Standard Offer Program; TOU Rate; Billing Disclosures]

Direct, Rebuttal and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utilities Commission, Petition of PPL Electric for Default Service Program for June 1, 2025 through

May 31, 2029, Docket No. P-2024-3047290 (June and July 2024) [Retail Market Enhancement Programs; Standard Offer Program; TOU Rate; Billing Disclosures]

Direct, Rebuttal and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utilities Commission, Petition of Duquesne Light Co. for Default Service Program for June 1, 2025 through May 31, 2029, Docket No. P-2024-3048592 (July and August 2024) [Retail Market Enhancement Programs; Standard Offer Program; TOU Rate; Billing Disclosures]

Direct, Rebuttal and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utilities Commission, Pennsylvania PUC v. FirstEnergy Pennsylvania, Docket No. R-2024-3047068 (June, July, and August 2024) [customer service performance, compliance with statutory and regulatory rules; billing for non-basic services; tariffs; EV rate pilots; management performance; payment processing fees; root cause analysis]

Direct and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utilities Commission, Pennsylvania PUC v. Aqua Pennsylvania, Docket Nos. R-2024-3047822 (Water) and R-2024-3047824 (Wastewater) (August and September 2024) [customer service performance, compliance with statutory and regulatory rules; payment processing fees; tariffs; management performance; root cause analysis]

Direct and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utility Commission, Pennsylvania PUC v. UGI Utilities, Inc.—Gas Division, Docket No. 2024-R-3052716 (April-May 2025) [customer service performance, compliance with statutory and regulatory rules, management performance, root cause analysis, billing for supplier charges]

Direct and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utilities Commission, Pennsylvania PUC v. Philadelphia Gas Works, Docket No. 2025-R-3053112 (May-July 2025) [customer service performance, compliance with statutory and regulatory rules, management performance, root cause analysis, billing for supplier charges]

Direct and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utilities Commission, Pennsylvania PUC v. Columbia Gas of Pennsylvania, Inc., Docket No. R-2025-3053499 (June-July 2025) [customer service performance, compliance with statutory and regulatory rules, management performance, root cause analysis, billing for supplier charges]

Direct and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utilities Commission, Pennsylvania PUC v. The York Water Co., Docket Nos. R-2025-3053442, et al. (August-October 2025) [customer service performance, compliance with statutory and regulatory rules, management performance, root cause analysis, low income programs and policies]

Direct and Surrebuttal Testimony on behalf of the Pennsylvania Office of Consumer Advocate before the Pennsylvania Public Utilities Commission, Pennsylvania PUC v. Pittsburgh Water and Sewer Authority, Docket Nos. R-2023-3039920, et al. (September-October 2025) [customer service performance, compliance with statutory and regulatory rules, management performance, root cause analysis; payment fees]

Exhibit BA-2

Pennsylvania-American Water Company **OCA 15-001_Attachment**

Transworld Systems Inc. - Collections						
Month	**Year**	**Calls Received (Calls Offered to the Queue)**	**Calls Answered by a Customer Service Representative**	**Average Speed of Answer (ASA)**	**% Answered within 60 seconds**	**Abandonment Rate**
January	2024	35,459	23,828	0:09:36	26.31%	32.80%
February	2024	37,111	26,497	0:07:30	28.16%	28.60%
March	2024	36,072	25,217	0:07:48	23.48%	30.09%
April	2024	37,262	29,874	0:05:13	37.74%	19.83%
May	2024	34,189	28,389	0:04:19	43.41%	16.96%
June	2024	31,619	28,695	0:02:18	62.17%	9.25%
July	2024	42,162	33,654	0:05:12	33.56%	20.18%
August	2024	36,561	31,694	0:03:14	52.24%	13.31%
September	2024	35,384	30,011	0:03:49	53.68%	15.18%
October	2024	48,033	41,979	0:03:14	61.76%	12.60%
November	2024	22,299	22,018	0:00:09	95.45%	1.26%
December	2024	41,021	31,515	0:06:22	43.59%	23.17%
Yearly Total	**2024**	**437,172**	**353,371**	**0:04:54**	**47%**	**19%**
January	2025	42,340	33,035	0:06:15	37.45%	21.98%
February	2025	38,533	29,525	0:06:27	33.49%	23.38%
March	2025	38,444	31,430	0:04:59	47.77%	18.24%
April	2025	34,215	30,400	0:02:57	61.99%	11.15%
May	2025	30,860	28,269	0:02:10	64.27%	8.40%
June	2025	33,177	28,953	0:03:03	55.83%	12.73%
July	2025	36,619	30,784	0:03:51	50.00%	15.93%
August	2025	38,975	30,260	0:05:37	36.99%	22.36%
September	2025	41,019	29,366	0:07:16	29.18%	28.41%
October	2025	45,027	28,366	0:09:31	27.02%	37.00%
November	2025	29,424	24,620	0:04:20	41.96%	16.33%
December	2025	29,390	26,766	0:02:18	68.25%	8.93%
YTD Total	**2025**	**438,023**	**351,774**	**0:05:08**	**44%**	**19%**

Pennsylvania-American Water Company **OCA 15-001_Attachment**

Intelogix - Collections						
Month	**Year**	**Calls Received (Calls Offered to the Queue)**	**Calls Answered by a Customer Service Representative**	**Average Speed of Answer (ASA)**	**% Answered within 60 seconds**	**Abandonment Rate**
January	2024	28,418	21,806	0:07:28	39.43%	23.27%
February	2024	19,630	15,111	0:07:00	35.56%	23.02%
March	2024	23,628	19,636	0:05:05	40.81%	16.90%
April	2024	25,195	20,756	0:05:15	39.53%	17.62%
May	2024	23,813	19,863	0:04:42	37.58%	16.59%
June	2024	20,836	16,306	0:05:45	24.89%	21.74%
July	2024	23,621	18,373	0:06:35	25.40%	22.22%
August	2024	21,951	18,109	0:05:10	29.36%	17.50%
September	2024	18,242	14,635	0:06:47	20.62%	19.77%
October	2024	27,418	23,432	0:05:05	40.89%	14.54%
November	2024	15,527	13,197	0:04:31	35.02%	15.01%
December	2024	21,606	13,827	0:15:37	8.49%	36.00%
Yearly Total	**2024**	**269,885**	**215,051**	**0:06:35**	**31%**	**20%**
January	2025	18,505	14,034	0:09:57	13.98%	24.16%
February	2025	15,939	13,219	0:06:44	24.56%	17.07%
March	2025	20,528	14,526	0:12:46	9.14%	29.24%
April	2025	19,056	13,983	0:11:16	11.97%	26.62%
May	2025	17,730	14,918	0:05:22	29.28%	15.86%
June	2025	19,034	15,355	0:06:08	28.51%	19.33%
July	2025	20,515	15,865	0:07:23	20.84%	22.67%
August	2025	20,341	15,458	0:08:26	24.40%	24.01%
September	2025	19,440	14,217	0:09:52	25.12%	26.87%
October	2025	19,683	14,255	0:11:14	22.10%	27.58%
November	2025	15,856	12,254	0:08:01	22.83%	22.72%
December	2025	17,313	14,469	0:05:34	30.68%	16.43%
YTD Total	**2025**	**223,940**	**172,553**	**0:08:34**	**22%**	**23%**

Exhibit BA-3

Pennsylvania-American Water Company
Docket Nos. R-2025-3057983 (Water)
R-2025-3058051 (Wastewater)
Office of Consumer Advocate Set 7

OCA 07-008

Responsible Witness: Matthew Prine, Vice President and Chief Customer Officer

Question: Does PAWC include non-basic service charges on its residential customer bills? If so, provide a sample bill that identifies each such non-basic service are presented and disclosed as non-basic on the customer bills.

Response:

Yes. For the convenience of its customers and at their election, PAWC provides on-bill billing for utility related insurance products provided by Oncourse Home Solutions. PAWC includes non-basic service charges for Oncourse on residential customer bills. Please see OCA 07-008_Attachment, page 3, for a sample and explanation of the charges.

PENNSYLVANIA AMERICAN WATER

WE KEEP LIFE FLOWING™

Statement

Account No. [redacted]

Total Amount Due:	**$105.50**
Payment Due By:	**December 3, 2025**

Service Address:

[redacted]

Billing Date:	November 11, 2025
Service Period:	Oct 11 to Nov 07 (28 Days)
Total Gallons:	3,700

THANK YOU FOR BEING OUR CUSTOMER

Important Account Messages

- Want to get to know us better? Visit www.pennsylvaniaamwater.com to learn more about the services we provide.
- Thank you for being a long time customer! We work hard every day to deliver water service that is safe, reliable, and affordable -- our customers deserve nothing less.

Account Summary – *See page 3 for Account Detail*

Prior Billing:		$114.90
Payments - Thank You!	-	$114.90
Balance Forward:	=	**$0.00**
Service Related Charges:	+	$88.51
Protection Programs:	+	$16.99
Total Amount Due:	=	**$105.50**

For more information, visit www.pennsylvaniaamwater.com

View your account information or pay your bill anytime at: www.amwater.com/MyAccount

Pay by Phone*: Pay anytime at 1-855-748-6066

Customer Service: 1-800-565-7292
M-F 7:00am to 7:00pm – Emergencies 24/7

In Person: We have agreements with several authorized payment locations in our service areas. See the reverse side for more information.

PENNSYLVANIA AMERICAN WATER
PO BOX 371412
PITTSBURGH, PA. 15250-7412

Please return bottom portion with your payment. DO NOT send cash. Retain upper portion for your records

PENNSYLVANIA AMERICAN WATER

WE KEEP LIFE FLOWING™

P.O. BOX 91623
RANTOUL, IL 61866-8623

Account No. [redacted]

Total Amount Due:	**$105.50**
Payment Due By:	**December 3, 2025**
If paying after 12/3/25, pay this amount:	$106.83

Service to: [redacted]

Amount Enclosed $

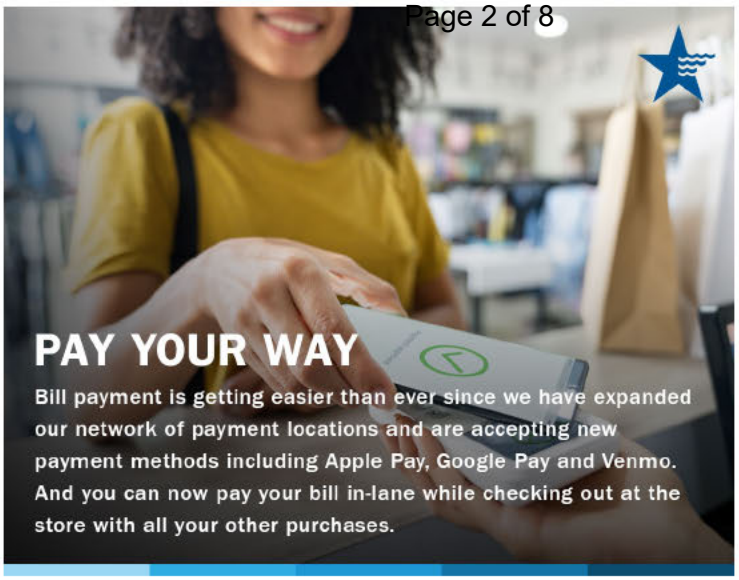
[redacted]

PENNSYLVANIA AMERICAN WATER
PO BOX 371412
PITTSBURGH, PA. 15250-7412

[redacted]

Messages from Pennsylvania American Water

- Effective October 1, 2025, the Water Distribution System Improvement Charge increased from 0.00% to 0.28%. This charge funds the replacement of water system facilities.
- ***IMPORTANT WATER QUALITY MESSAGE: Your annual Water Quality Report can be viewed electronically at www.amwater.com/ccr/ceasetownwatres.pdf. If you prefer a paper copy to be sent to you, please contact our Customer Service Center at 800-565-7292.
- Pennsylvania American Water customer rates are based on specific rate zones identified in the company's tariffs. For more information on your rates, visit pennsylvaniaamwater.com/rates and reference Water Rate Zone 1.
- Approximately 3.27 percent, or $3.45 of state taxes are included in your current bill.



CUSTOMER SERVICE: 1-800-565-7292
HOURS: M-F, 7am-7pm ▪ Emergencies: 24/7
TTY/TDD FOR THE HEARING IMPAIRED : 711
(and then reference Customer Service number listed above)

SERVICES

- **Go Paperless:** Save time. Save money. Sign up for **Paperless Billing** and **Auto Pay** on MyWater at amwater.com/mywater. Not registered? Log in and be sure to have your account number handy.
- **Water Quality:** We have an exceptional track record when it comes to providing safe, reliable water service to our customers. For a copy of the annual water quality report for your area, visit pennsylvaniaamwater.com. Under Water Quality, select Water Quality
- **H2O Help To Others:** This program helps low-income customers who qualify with their bills. For more information, contact our program administrator, Dollar Energy Fund, at 1-888-282-6816.

EXPLANATION OF FEES AND OTHER TERMS

- **Distribution System Improvement Charge (DSIC):** A charge to replace aging facilities, such as mains, meters, fire hydrants, valves, etc. This charge, as approved by the Pennsylvania Public Utility Commission (PUC), may change every three months based on work completed. It will not exceed 7.5% of your water bill or 5% of your wastewater bill.
- **Payment by Check:** Paying by check authorizes American Water to send the information from your check electronically to your bank for payment. The transaction will appear on your bank statement. The physical check will not be presented to your financial institution or returned to you.
- **State Tax Surcharges:** This PUC-approved charge allows the company to recover costs specific to state taxes.
- **Estimated Bill:** This occurs when we are unable to read the water meter. Your usage from the same billing period the prior year is used to calculate the estimated bill. The next actual meter reading corrects any over- or under-estimated bills.
- **Inquiries/Disputes:** For inquiries about your bill, please register any question or complaint prior to the bill's due date. Contact customer service Monday–Friday from 7 a.m. to 7 p.m. at 1-800-565-7292. To register your complaint by mail, send written correspondence to PO Box 2798, Camden, NJ 08101.
- **Rates:** A detailed listing of charges that make up your bill is available upon request by contacting Customer Service or visiting us online at pennsylvaniaamwater.com. Under Customer Service & Billing, select Your Water and Wastewater Rates.
- **Protection programs for water, sewer and in-home plumbing** are offered by American Water Resources. Charges for these services are not regulated by the Pennsylvania Public Utility Commission. Regulated services will not be disconnected as a result of non-payment of protection program charges. Customers with protection program charges will not be assessed a late payment charge for late or unpaid protection plan charges. For inquiries about protection programs, please contact American Water Resources at 1-888-378-4458.
- **Correspondence:** Please send written correspondence to PO Box 2798, Camden, NJ 08101. Be sure to include your name, account number, service address, mailing address and phone number including area code. Please do not send correspondence with your payment, as it may delay processing your payment and correspondence.

H2O HELP TO OTHERS PROGRAM - lend a hand to customers in need

☐ I'm adding a one time contribution of $_____ with my payment.
☐ I'd like to add a recurring contribution to each bill of $_____. I understand this amount will be added to each bill.

Address Change(s)

Name

Address

City

State Zip Code

( ) ☐ Mobile Number
Phone Number

E-mail Address

Pay your bill in person! To find an authorized payment location near you, please visit www.amwater.com/payment.

7993665904963998100013450991 29

By accepting or using this barcode to make a payment, you agree to the full terms and conditions, available at www.vanilladirect.com/pay/terms.
After successful payment using this barcode you may retrieve your full detailed e-receipt at www.vanilladirect.com/pay/ereceipt

PENNSYLVANIA AMERICAN WATER
WE KEEP LIFE FLOWING™

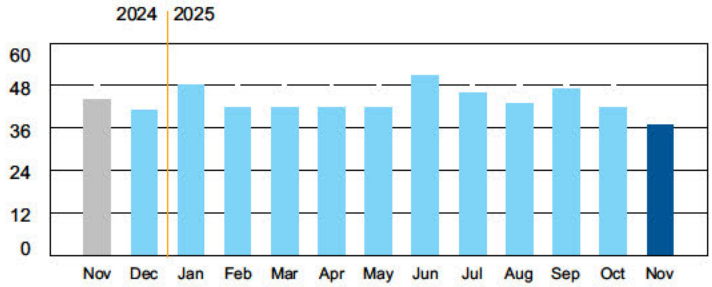
Meter Reading and Usage Summary

Meter No.	Measure	Size	From Date	To Date	Previous Read	Current Read	Meter Units	Billing Units	Total Gallons
63795778	100 gal	5/8"	10/11/2025	11/07/2025	4,389 (A)	4,426 (A)	37	37.00	3,700

A = Actual E = Estimate 1 Billing Unit = 100 gallons Total Gallons: 3,700

Billed Usage History (graph shown in 100 gallons)

- 3,700 gallons = usage for this period
- 4,400 gallons = usage for same period last year



Next Scheduled Read Date: on or about December 09, 2025
Account Type: Residential

Average daily use for this period is: (28 days)

132 gallons

Year to Date Billed Usage: 48,200 gallons

Account Detail

Account No. [redacted]
Service To: [redacted]

Prior Billing		114.90
Payments		-114.90
Total payments as of Oct 27. Thank you!		-114.90
Balance Forward		**0.00**
Service Related Charges - 10/11/25 to 11/07/25		
Water Service		88.26
Water Service Charge		18.80
Water Usage Charge	(37 x $1.8772)	69.46
Other Charges		0.25
Distribution System Improvement Charge	($88.26 x 0.28%)	0.25
Total Service Related Charges		**88.51**
Protection Programs: For inquiries, please call 1-888-378-4458		16.99
1 Protection Program		16.99
Total Current Period Charges		**105.50**
Total Amount Due		**$105.50**

Understanding Your Bill

The information below defines some of the new terms you may find on your bill:

- **Service Related Charges:** This section includes charges for services related to water, wastewater and fire protection. If applicable, credits and debits for corrections to previously billed charges are itemized in this section.
- **Bill Period:** This section shows the time period for which the bill is based. Billing periods may range from 26-35 days in accordance with PUC regulations.
- **Fees and Adjustments:** This section provides details related to additional charges or adjustments for the service period referenced. Fees, when applicable, would include items such as service activation and late payment charges.
- **Billing Units:** One billing unit equals 100 gallons of water used. If the meter serving your property measures your water use in cubic feet or a different unit of measure, we convert the usage to gallons to make it easier to understand.
- **Average Daily Use:** The gallons shown in the water droplet above represent your average daily water use for the current billing period. Tracking the amount of water you use can help you manage your overall water use from month to month.
- **Protection programs for water, sewer and in-home plumbing** are offered by American Water Resources but are not required. Learn more in the Explanation of Fees and Other Terms section on page 2 of your bill.
- **Still have questions?** We are here to help. Our customer service representatives are available M–F, 7 a.m. to 7 p.m. More information on understanding your bill and charges can also be found on our website. See the link below.

Para obtener asistencia de traducción en la lectura de su factura, comuníquese con nuestro Centro de Atención al Cliente al 1-800-565-7292 de lunes a viernes de 7 a. m. a 7 p. m.

For more information about your charges and rates, please visit: https://amwater.com/paaw/rates

Page 4 of 8

<This page is intentionally left blank and reserved for future messages>

NEW WAYS TO PAY



At Pennsylvania American Water, we're offering bill payment options that are more convenient than ever. We have expanded our network of payment locations across our footprint and are accepting new payment methods including Apple Pay and Google Pay. And you can now pay your bill while checking out at the store with all your other purchases.

PAY YOUR WAY

We now offer greater flexibility in the way you pay your bills through MyWater. You can use these payment methods for a one-time payment or Auto Pay:

- Apple Pay
- Google Pay
- Venmo
- PayPal/PayPal Credit

PAY IN PERSON

You can now pay for your bill at stores like 7-Eleven and Family Dollar by using your unique barcode printed on the back of your bill. You can pay your bill portion using cash, while also making other purchases.



HOW TO PAY

1. Visit **pennsylvaniaamwater.com > Customer Service & Billing > Billing & Payment Info > Pay In Person** for a list of authorized payment locations for in-person bill pay.
2. Go to your preferred location and let them know you're making a Pennsylvania American Water bill payment.
3. Show your barcode at checkout and confirm how much you'd like to pay.
4. You'll get a receipt and that's it!

To learn about other ways you can pay your bill, such as by phone, by mail or online, please visit us online at **pennsylvaniaamwater.com > Customer Service & Billing > Billing & Payment Info.**

SERVICE. ONE MORE WAY WE KEEP LIFE FLOWING.



The holiday season is fast approaching. A time when family and friends gather around the dinner table to enjoy each others company and good food. When preparing your guest list, above are three you won't want to invite to the party.

Don't let this festive trio fool you. Fats, oils and grease (FOG) can wreak havoc on your pipes. Many sewer blockages occur between the house or business and the utility's sewer main, where the property owner is responsible for correcting the problem. Avoiding blockages could mean avoiding an unnecessary plumbing bill.



When preparing this year's meals, be sure to scrape and trash your FOG to prevent clogs and protect your ho-ho-home this season.

Scan to see FOGs mischief in action



Other items you should avoid flushing down the drain (throw them in the trash instead).

- Wipes (even if they say they're "flushable")
- Dental floss
- Cotton swabs or rounds
- Hair
- Paper towels
- Tissues
- Contact lenses
- Medication

10-2024

Bill Inserts and Important Notices

We encourage you to click the link(s) below to view any bill inserts and other important notices you would have received with your printed bill.

https://amwater.com/files/OAPASB.pdf
https://amwater.com/files/OAPAAC.pdf

Exhibit BA-4

Pennsylvania-American Water Company
Docket Nos. R-2025-3057983 (Water)
R-2025-3058051 (Wastewater)
Office of Consumer Advocate Set 7

OCA 07-010

Responsible Witness: Matthew Prine, Vice President and Chief Customer Officer

Question: Provide the internal sales and/or training materials used by American Water Works call centers to market, discuss, or handle calls relating to non-basic services for PAWC customers.

Response:

Neither PAWC nor other American Water employees market or sell any non-basic services to PAWC customers. Training materials on how to discuss and handle calls related to non-basic services are included in OCA 07-010_Attachment_CONFIDENTIAL.

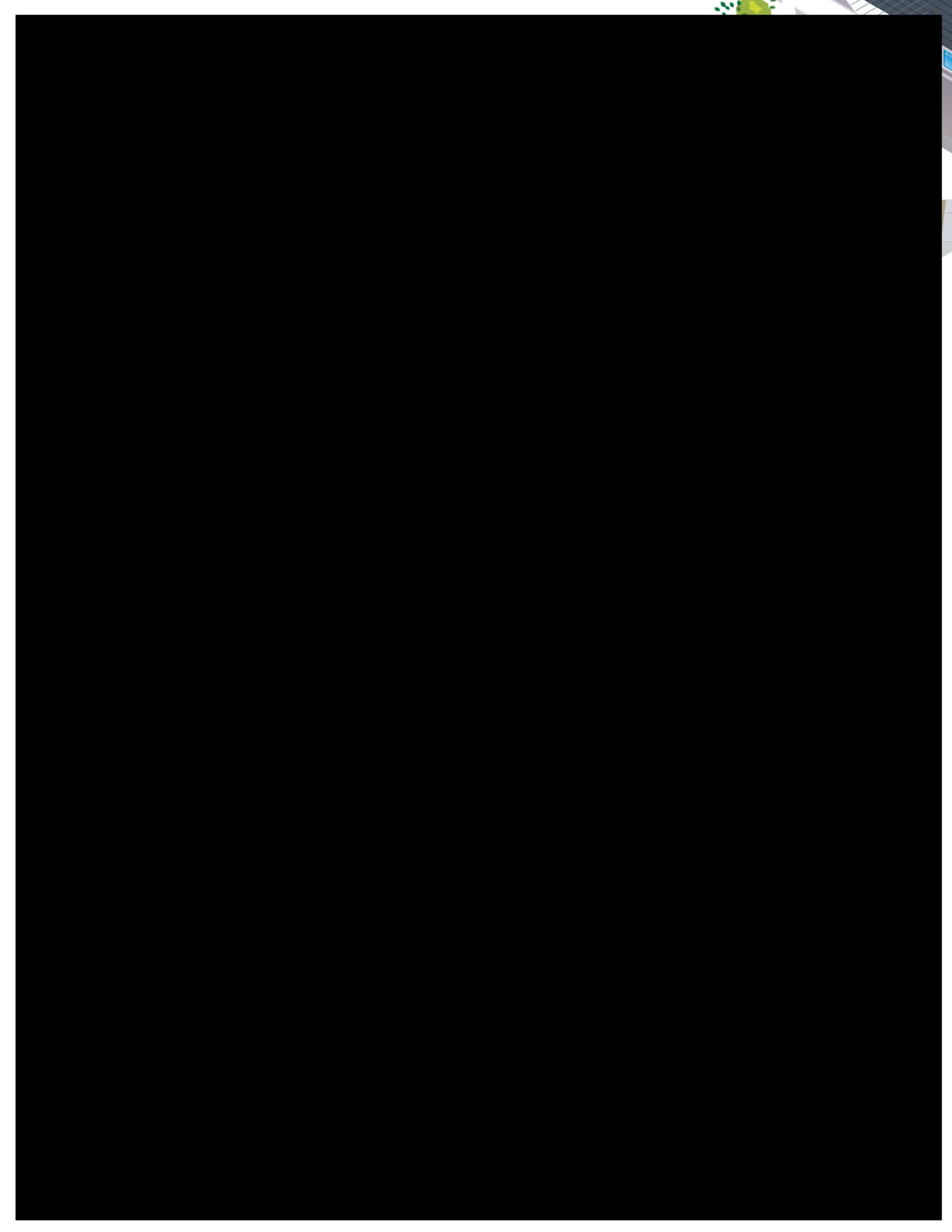
[redacted]

[redacted]

Exhibit BA-5

[redacted]

[redacted]



[redacted]

[redacted]

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	:	
	:	
v.	:	Docket Nos. R-2025-3057983 (W)
	:	R-2025-3058051 (WW)
Pennsylvania-American Water Company	:	
	:	

VERIFICATION

I, Barbara R. Alexander, hereby state that the facts above set forth in my Direct Testimony, OCA Statement No. 5, 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 herein are made subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

DATED: January 30, 2026

Signature: */s/ Barbara R. Alexander*
Barbara R. Alexander

Address: Barbara Alexander Consulting LLC
44 Beech Street
Hallowell, ME 04347

BEFORE THE

PENNSYLVANIA PUBLIC UTILITY COMMISSION

PENNSYLVANIA PUBLIC UTILITY COMMISSION	)	
v.	)	Docket Nos. R-2025-3057083 R-2025-3058051
PENNSYLVANIA AMERICAN WATER COMPANY	)	

OFFICE OF CONSUMER ADVOCATE

ERRATA TO OCA STATEMENT 1

Errata to OCA St. 1

p. 4, line 8: "IN CONNECTION WITH THIS CASE, HAVE YOU PERFORMED AN EXAMINATION AND REVIEW OF THE ~~CITY'S~~ COMPANY'S TESTIMONY AND EXIBITS?"

p. 4, line 22: "Exhibits LKM-1W through LKM-~~10~~ 11W provide the supporting exhibits for PAWC water services. ~~Exhibits LKM-1W through LKM-10W provide the supporting exhibits for PAWC water services.~~"

p. 5, line 3: "Exhibits LKM-1CSS through LKM-9CSS provide the exhibits for the Company's Wastewater ~~BASA~~ CSS operations. Finally, Exhibits LKM-1E through LKM-5E provide the exhibits for the Company's Elizabeth Borough Operation~~.e~~"

p. 8, line 21: "The application for PAWC's acquisition of Appalachian was filed ~~under~~ pursuant to Section 1102(a) of the Code, 66 Pa. C.S. Section 1102(a)."

p. 9, line 6: "The Commission approved PAWC's acquisition of BASA, o~~. O~~n November 16, 2023 pursuant to Section 1329 of the Code, 66 Pa. C.S. § 1329."

p. 25, n. 21: "*See* OCA Statement No. 2 at Exhibit DJG-13."

Errata to Exhibits to OCA St. 1

Title Page (Exhibit and Appendix): "~~CITY OF LANCASTER GENERAL RATE INCREASE FILED PURSUANT TO 52 PA. CODE § 53.45(A)~~ PENNSYLVANIA PUBLIC UTILITY COMMISSION V. PENNSYLVANIA AMERICAN WATER COMPANY: DOCKET NOS. ~~R-2025-3057237~~ R-2025-3057983 R-2025-3058051."

Appendix A: Attached CV.

Exhibit LKM-9CSS: "~~BASA~~ Wastewater CSS Operations"

Exhibit LKM-5E: "~~BASA~~ Elizabeth Borough WW CSS Operations" and reformatted to fit on one page.

OCA Statement 1
Corrected

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	**:**	
	:	**Docket Nos. R-2025-3057983**
v.	**:**	**R-2025-3058051**
	:	
Pennsylvania American Water Company	**:**	

DIRECT TESTIMONY

OF

LAFAYETTE K. MORGAN, JR.

ON BEHALF OF THE

PENNSYLVANIA OFFICE OF CONSUMER ADVOCATE

January 30, 2026

CORRECTED
February 2, 2026

EXETER
ASSOCIATES, INC.
10480 Little Patuxent Parkway, Suite 300
Columbia, Maryland 21044

TABLE OF CONTENTS

I. INTRODUCTION 1
II. SUMMARY AND RECOMMENDATIONS 5
III. REVENUE REQUIREMENT ISSUES 6
1. Utility System Acquisitions 6
2. Payroll Expense 20
3. Incentive Compensation Expense 20
4. Towamencin Township Transaction Costs 21
5. Group Insurance Expense 23
6. Transportation Expense 23
7. PURTA Tax 24
8. Interest Synchronization 24
9. Pension and OPEB Expense and Request for Deferred Accounting Treatment 25

I. Introduction

Q. **PLEASE STATE YOUR NAME, POSITION AND BUSINESS ADDRESS.**

A. My name is Lafayette K. Morgan, Jr. My business address is 10480 Little Patuxent Parkway, Suite 300, Columbia, Maryland, 21044. I am a Public Utilities Consultant working with Exeter Associates, Inc. ("Exeter"). Exeter is a consulting firm specializing in issues pertaining to public utilities.

Q. **PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND QUALIFICATIONS.**

A. I received a Master of Business Administration degree from The George Washington University. The major area of concentration for this degree was Finance. I received a Bachelor of Business Administration degree with concentration in Accounting from North Carolina Central University. I was previously a CPA licensed in the state of North Carolina, however, in 2009, I elected to place my license in an inactive status as I focused on start-up activities for other business interests.

Q. **PLEASE DESCRIBE YOUR PROFESSIONAL EXPERIENCE.**

A. From May 1984 until June 1990, I was employed by the North Carolina Utilities Commission - Public Staff in Raleigh, North Carolina. I was responsible for analyzing testimony, exhibits, and other data presented by parties before the North Carolina Utilities Commission. I had the additional responsibility of performing the examination of books and records of utilities involved in rate proceedings and summarizing the results into testimony and exhibits for presentation before that Commission. I was also involved in numerous special projects, including participating in compliance and prudence audits of a major utility, and conducting research on several issues affecting natural gas and electric utilities.

From June 1990 until July 1993, I was employed by Potomac Electric Power Company ("Pepco") in Washington, D.C. At Pepco, I was involved in the preparation of the cost of service, rate base and ratemaking adjustments supporting Columbia's requests for revenue increases in the State of Maryland and the District of Columbia.

From July 1993 through 2010, I was employed by Exeter as a Senior Regulatory Analyst. During that period, I was involved in the analysis of the operations of public utilities, with emphasis on utility rate regulation. I reviewed and analyzed utility rate filings, focusing primarily on revenue requirements determination. This work involved natural gas, water, electric, and telephone companies.

In 2010, I left Exeter to focus on start-up activities for other ongoing business interests. In late 2014, I returned to Exeter continuing to work in a similar capacity as prior to my hiatus.

Q. **HAVE YOU PREVIOUSLY TESTIFIED IN REGULATORY PROCEEDINGS ON UTILITY RATES?**

A. Yes. I have previously presented testimony and affidavits on numerous occasions before the Regulatory Commission of Alaska, the Colorado Public Utilities Commission, the Georgia Public Service Commission, the Illinois Commerce commission, the Kansas Corporation Commission, the Kentucky Public Service Commission, the Louisiana Public Service Commission, the Maine Public Utilities Commission, the Maryland Public Service Commission, the Massachusetts Department of Public Utilities the North Carolina Utilities Commission, the Public Utilities Commission of Ohio, the Corporation Commission of Oklahoma, the Pennsylvania Public Utility Commission, the Philadelphia Gas Commission, the Philadelphia Water, Sewer and Storm Water Rate Board, the Public Utilities Commission of Rhode Island,

the Public Service Commission of South Carolina, the Public Utility Commission of Texas, the Vermont Public Service Board, the Virginia Corporation Commission, the West Virginia Public Service Commission, the Wyoming Public Service Commission, and the Federal Energy Regulatory Commission ("FERC"). My resume is attached hereto as Appendix A.

Q. **ON WHOSE BEHALF ARE YOU APPEARING?**

A. I am presenting this testimony on behalf of the Pennsylvania Office of Consumer Advocate ("OCA").

Q. **WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?**

A. Exeter has been retained by the OCA to assist in the evaluation of the general rate filing submitted by Pennsylvania-American Water Company ("PAWC" or "Company"). I have been asked by the OCA to present my findings with respect to the Company's revenue requirement and its proposed rate increase. I calculate the Company's rate base, pro forma operating income under present rates, and overall revenue deficiency based upon my recommended adjustments to the Company's claims. My findings are based upon incorporating the recommendations and findings of other OCA witnesses who are also presenting testimony in this proceeding.

Q. **PLEASE IDENTIFY THE OCA'S OTHER EXPERT WITNESSES WHO ARE PRESENTING TESTIMONY IN THIS PROCEEDING.**

A. In addition to my testimony, there are four other witnesses presenting testimony on behalf of the OCA.

- In OCA Statement No. 2, Mr. David Garrett provides testimony on the appropriate rate of return and cost of capital issues, and also issues related to the determination of the depreciation rates.

- In OCA Statement No.3, Mr. Jerome D. Mierzwa is the OCA's witness who provides testimony on class cost of service and rate design issues.
- In OCA Statement No. 4, Mr. Roger Colton will present the OCA's recommendations regarding affordability of service, low-income customer assistance programs, and tariffs.
- In OCA Statement No. 5, Ms. Barbara Alexander will present the OCA's recommendations regarding customer service and quality of service.

Q. **IN CONNECTION WITH THIS CASE, HAVE YOU PERFORMED AN EXAMINATION AND REVIEW OF THE COMPANY'S TESTIMONY AND EXHIBITS?**

A. Yes. I have reviewed the Company's testimonies, exhibits and its rate filing. I have also reviewed the Company's responses to interrogatories propounded by the OCA, the Office of Small Business Advocate ("OSBA"), and the Bureau of Investigation & Enforcement ("I&E") interrogatories.

Q. **WHAT PERIOD HAVE YOU USED IN MAKING YOUR DETERMINATION OF THE COMPANY'S REVENUE REQUIREMENTS?**

A. I used the Fully Projected Future Test Year (FPFTY) ending June 30, 2027 as the basis for determining the FPFTY year revenue requirements, as filed by the Company.

Q. **HAVE YOU PREPARED SCHEDULES TO ACCOMPANY YOUR TESTIMONY?**

A. Yes. I have prepared five set of Exhibits for each of the Company's service offerings. Exhibits LKM-1W through LKM-11W provide the supporting exhibits for PAWC water services. Exhibits LKM-1WSS through LKM-10WSS provide the exhibits for the Company's Wastewater SSS operations. Exhibits LKM-1BASA through LKM-

9BASA provide the exhibits for the Company's Wastewater BASA operations. Exhibits LKM-1CSS through LKM-9CSS provide the exhibits for the Company's Wastewater CSS operations. Finally, Exhibits LKM-1E through LKM-5E provide the exhibits for the Company's Elizabeth Borough Operation.

Q. **HOW IS THE REMAINDER OF YOUR TESTIMONY ORGANIZED?**

A. This section, Section I, provides the introductory information to my testimony. Section II presents a summary of my findings and conclusions. In Section III, I document and explain each of the accounting adjustments that I have made to the rate base and operating income to arrive at the test year revenue increase shown on Exhibit LKM-1. Additionally, attached to this testimony, I present the exhibits that support my adjustments and summarize my revenue requirement recommendation. Appendix A, attached to this testimony, provides my resumé which summarizes my professional experience.

II. Summary and Recommendations

Q. **PLEASE SUMMARIZE THE RATE RELIEF REQUESTED BY THE COMPANY IN ITS FILING.**

A. On November 14, 2025, the Company filed this base rate case with the Pennsylvania Public Utility Commission (the "Commission") seeking a general rate increase in water and wastewater rates pursuant to 66 Pa. C.S. § 1308(d) of the Pennsylvania Public Utility Code ("Code"). If PAWC's full requested increase is granted, the Company's combined (water and wastewater) annual base rate distribution revenue would increase by approximately $168.7 million, resulting in a total system average increase of approximately 14.6%.[1] This level of rate increase is designed to provide the Company

[1] PAWC Volume 1, Page 1.

with an opportunity to earn an 8.23% overall rate of return on water rate base, and a 7.75% overall rate of return on wastewater rate base. The overall rates of return requested by the Company includes a 10.95% return on common equity.[2]

From my review of PAWC's filing, the requested increase in rates is driven by: (i) the recovery of planned investment in utility plant; (ii) the recovery of the Company's requested rate of return on its utility plant investments; (iii) the effect of the current trend of declining consumption per-customer; and (iv) recovery of increases in operating expenses.[3]

Q. **PLEASE SUMMARIZE YOUR FINDINGS AND RECOMMENDATIONS.**

A. As shown on Exhibit LKM-1, I have determined that the Company's combined rates should be decreased by $17.3 million for the FPFTY ending June 30, 2027. This represents a decrease of $186 million from the Company's requested increase of $168.7 million.

III. Revenue Requirement Issues

1. Utility System Acquisitions

Q. **WHAT WATER AND WASTEWATER SYSTEM ACQUISITIONS IS THE COMPANY INCLUDING IN BASE RATES FOR THE FIRST TIME?**

A. The chart below summarizes the water and wastewater systems that the Company is including in rates for the first time.

Water	Wastewater
Farmington Township	Farmington Township
Audubon Water Company	Butler Area Sewer Authority
East Dunkard Water Authority	Elizabeth Borough Municipal Authority
Manwalamink Water Company	Manwalamink Sewer Company
Appalachian Utilities, Inc.	Sadsbury Township Municipal Authority
Corner Water Supply and Service Corporation	

[2] *Id.* at 2.
[3] PAWC Volume 7, Exhibit Fully Projected Future 1, A-1, Page 1.

Q. **PLEASE PROVIDE A BRIEF DESCRIPTION OF EACH OF THE SYSTEMS ABOVE.**

A. In this proceeding, there are nine separate entities (water, wastewater or combined) that PAWC proposes to include in base rates for the first time.

1. Farmington Township ("Farmington"). Farmington is composed of water and wastewater systems. The Commission approved PAWC's acquisition of Farmington on September 26, 2024 in Docket Nos. A-2023-3042587 and A-2023-3042567. The purchase price was allocated $2,621,312 to the water system and $2,923,688 to the wastewater system. The application for PAWC's acquisition of Farmington was filed under Section 1102(a) of the Code, 66 Pa. C.S. Section 1102(a).
2. Audubon Water Company ("Audubon" or "AWC"). The Commission approved PAWC's acquisition of Audubon on January 23, 2025[4] in Docket Nos. A- 2023-3043194 and A- 2023-3043196. The purchase price for this water system was $7,200,000. The application for PAWC's acquisition of Audubon was filed under Section 1102(a) of the Code, 66 Pa. C.S. Section 1102(a).
3. East Dunkard Water Authority ("East Dunkard"). In Docket No. P-2023-3043950, the Pennsylvania Department of Environmental Protection ("DEP") and PAWC filed a Joint Petition pursuant to 52 Pa. Code § 3.2 seeking an emergency order directing PAWC to act as a receiver to operate East Dunkard. PAWC granted Receivership of East Dunkard beginning on February 9, 2024 as authorized by both the Commission and the Commonwealth Court. PAWC filed an Application to acquire the East Dunkard system on June 21, 2024. By Order entered on March 13,

[4] On page 8, line 10 of Mr. Wieczenski's direct testimony, he indicates the Order was entered on January 23, 2024. However, the date on the Order is January 23, 2025. It is assumed the discrepancy is inadvertent.

2025, the Commission approved PAWC's acquisition of the East Dunkard system pursuant to Section 1102. The purchase price for this water system was $5,000,000.

4. Manwalamink Water Company ("MWC") and Manwalamink Sewer Company ("MSC") (collectively "Manwalamink"). Manwalamink is composed of water and wastewater systems. The Commission approved PAWC's acquisition of Manwalamink on March 27, 2025 in Docket Nos. A-2023-3044418, A-2023-3044419, A-2023-3044421 and A-2023-3044422. The purchase price was allocated $1,809,000 to the water system and $2,191,000 to the wastewater system. The application for PAWC's acquisition of Manwalamink was filed under Section 1102(a) of the Code, 66 Pa. C.S. Section 1102(a).

5. Appalachian Utilities, Inc. ("Appalachian"). The Commission approved PAWC's acquisition of Appalachian on June 18, 2025[5] in Docket Nos. A-2024-3046068, A-2024-3046084 and A-2024-3046092. The purchase price for this water system was $3,500,000. The application for PAWC's acquisition of Appalachian was filed pursuant to Section 1102(a) of the Code, 66 Pa. C.S. Section 1102(a).

6. Corner Water and Service Corporation ("Corner"). The Commission approved PAWC's acquisition of Corner on September 2, 2025 in Docket Nos. A-2025-3052745 and A-2025-3052747. The purchase price for this water system is not disclosed. The application for PAWC's acquisition of Corner was filed pursuant to Section 1102 of the Code.

7. Butler Area Sewer Authority ("BASA"). The Commission approved PAWC's acquisition of BASA, on November 16, 2023 pursuant to Section 1329 of the Code, 66 Pa. C.S. § 1329.

[5] On page 8, line 10 of Mr. Wieczenski's direct testimony, he indicates the Order was entered on September 23, 2025. However, the date on the Order is June 18, 2025. It is assumed the discrepancy is inadvertent.

8. Elizabeth Borough Municipal Authority ("EBMA"). The Commission approved PAWC's acquisition of EBMA on October 9, 2025 pursuant to Section 1329 of the Code. The acquisition transaction closed in December 2025.

9. Sadsbury Township Municipal Authority ("STMA"). The Commission approved PAWC's acquisition of STMA on September 12, 2024, pursuant to Section 1102 of the Code, 66 Pa. C.S. Section 1102. PAWC and STMA closed on the acquisition on October 31, 2024 WTP. The purchase price for the system is $990,000. On November 7, 2024, PAWC filed an Original Cost Study of the system. The original cost of the system was determined to be $2,451,913 and the depreciated original cost was $1,976,073. The depreciated original cost of the assets included in this transaction is more than the purchase price, therefore, PAWC will amortize the difference between what was paid and the cost of the assets over ten years, thus lowering expenses for the Company's existing customers.

Q. **IN ADDITION TO THE INCLUSION OF THE ORIGINAL COST OF PLANT IN SERVICE, IS THE COMPANY SEEKING TO INCLUDE ANY ACQUISITION ADJUSTMENTS RELATED TO THE ACQUIRED SYSTEMS?**

A. Yes. I have summarized the systems acquisitions for which PAWC is seeking to recover the acquisition costs in the chart below.

PAWC Proposed Acquisition Adjustment Inclusions	Water	Wastewater
Farmington Township	X	X
Audubon Water Company	X	
Manwalamink Water and Sewer Company	X	X

Q. **WHAT IS AN ACQUISITION ADJUSTMENT?**

A. For utilities, an acquisition adjustment is the difference between the price paid to acquire a utility and the value of the net assets of that utility being acquired. It is sometimes referred to as Goodwill. Depending on the purchase price and the value of the business' net assets, the acquisition adjustment could be either negative or positive. Hence, a positive acquisition adjustment results from paying a purchase price that exceeds the underlying net assets of the utility being acquired. Likewise, a negative acquisition would result from paying a purchase price that is less than the underlying net assets of the utility being acquired. Under traditional ratemaking theory, the value of the assets included in its rate base, may only include the value of assets at the original cost of the property when first devoted to the public service less applicable accrued depreciation. However, under certain circumstances, the value of the assets more than the original costs less depreciation may be allowed in rate base.

In this jurisdiction, there are two exceptions to the prohibition of including an acquisition adjustment in rate base. When certain circumstances are met, Sections 1327 and 1329 of the Code, allow the inclusion of the cost of public water utility assets at a cost in excess of the original cost less accrued depreciation. Section 1329 provides a framework for public utilities to establish the fair market value of municipal water and wastewater systems they are acquiring. It allows the use of the lesser of the negotiated purchase price or the average of two independent appraisals based on cost, market, and income approaches to set the rate base. If a water utility is not acquired pursuant to the provisions of Section 1329 of the Pennsylvania Code, but the acquiring utility can satisfy the provisions stated in Section 1327(a), it may be able to use the purchase price that includes the acquisition adjustment.

Q. **WHAT ARE THE PROVISIONS THAT MUST BE MET BY A UTILITY IN ORDER TO REFLECT A SECTION 1327(A) POSITIVE ACQUISITION ADJUSTMENT IN RATES?**

A. Section 1327(a) of the Code outlines nine criteria, all of which must be met by a utility in order to add an acquisition adjustment to rate base. The following criteria apply:

1) The property acquired is used and useful in providing service;

2) The acquired utility had 3,300 or fewer customer connections or was non-viable in the absence of the acquisition;

3) The acquired entity was not, at the time of acquisition, furnishing and maintaining adequate, efficient, safe and reasonable service and facilities, evidence of which shall include, but not be limited to, any one or more of the following:

   i) violation of statutory or regulatory requirements of the Department of Environmental Resources (now, Department of Environmental Protection) or the commission concerning the safety, adequacy, efficiency or reasonableness of service and facilities;

   ii) a finding by the commission of inadequate financial, managerial or technical ability of the small water or sewer utility;

   iii) a finding by the commission that there is a present deficiency concerning the availability of water, the palatability of water or the provision of water at adequate volume and pressure;

   iv) a finding by the commission that the small water or sewer utility, because of necessary improvements to its plant or distribution system, cannot reasonably be expected to furnish and maintain adequate service to its customers in the future at rates equal to or less than those of the acquiring public utility;

   v) any other facts, as the commission may determine, that evidence the inability of the small water or sewer utility to furnish or maintain adequate, efficient, safe and reasonable service and facilities;

4) reasonable and prudent investments will be made to assure that the customers served by the property will received adequate, efficient, safe and reasonable service;

5) the public utility is in agreement with the acquisition and the negotiations which led to the acquisition were conducted at arm's length;

6) the actual purchase price is reasonable;

7) neither the acquiring nor selling public utility is an affiliated interest of the other;

8) the rates charged by the acquiring utility to its preacquisition customers will not increase unreasonably because of the acquisition; and

9) the excess of the acquisition cost over the depreciated original cost will be added to the rate base to be amortized as an addition to expense over a reasonable period of time with corresponding reductions in the rate base.

Q. **WHAT ARE THE REASONS PROVIDED BY THE COMPANY FOR REQUESTING SECTION 1327 TREATMENT FOR THE FARMINGTON WATER SYSTEM?**

A. According to the Company, the Farmington water system meets each of the nine criteria contained in Section 1327. PAWC states that:

1) All of the assets acquired by PAWC are used and useful in the public service.

2) The Farmington water system has 464 total customers, which is fewer than 3,300 customer connections.

3) The Farmington water system was not providing adequate, efficient, safe and reasonable service and facilities.

4) PAWC will make reasonable and prudent investments to provide adequate, efficient, safe and reasonable service and facilities. These investments include an estimated $1.04 million of capital improvements in the water system.

5) Farmington agreed to the acquisition, and the negotiations were at arm's length.

6) The allocated purchase price of $2,621,312 for the water system is reasonable. Farmington chose not to pursue a fair market value transaction, despite its ability to do so. The purchase price for the water system was based on the depreciated original cost ("DOC") of the assets of the system. The allocated purchase price of $2,621,312 is only 5% higher than the water system's DOC of $2,501,654.

7) PAWC is not affiliated with Farmington.

8) The proposed rate base for this system is $2,718,300, which represents less than 0.1% of PAWC's $4.7 billion rate base at the end of the FPFTY. Therefore, PAWC believes the transaction will have a de minimus impact on rates.

9) The excess of the acquisition cost over depreciated original cost will be amortized over ten years.

Q. **DO YOU AGREE THAT THE FARMINGTON ACQUISITION MET ALL CRITERIA TO MEET THE SECTION 1327 REQUIREMENTS FOR INCLUSION OF THE ACQUISITION ADJUSTMENT IN RATE BASE?**

A. No. I do not agree with the Company's claim. Specifically, PAWC claims that the Farmington water system was not providing adequate, efficient, safe and reasonable service and facilities. PAWC reached this conclusion by citing that the Farmington system received 41 Safe Drinking Water violations between 2018 and 2023. According to PAWC, the violations related to repeated failure to collect weekly water samples. PAWC then states that "[b]y failing to collect samples, the Farmington system provided inadequate and unreliable service, exposing customers to the risk of ingesting improperly disinfected water."[6] PAWC stated that the Farmington system also "repeatedly failed to issue public notification of its violations as required by DEP SDWA regulations and failed to issue its U.S. Environmental Protection Agency ("EPA") mandated Consumer Confidence Report on a timely basis."[7] PAWC states that "by failing to inform the public of critical drinking water alerts and information in a timely manner, the system provided inadequate and unreasonable service by not communicating public health safety concerns."[8]

I disagree that these violations resulted in "inadequate and unreasonable service." Were there violations of The Pennsylvania Department 1 of Environmental Protection ("DEP")'s Safe Drinking Water Act ("SDWA")? The answer is yes. However, the violations were not critical, nor did they result in releasing a serious

[6] Direct Testimony of Don Wieczenski at 27:6-8.
[7] *Id.* at 27:11-16.
[8] *Id.*

public health crisis. Rectifying the violations appears to be a matter that PAWC could easily resolve by changing sampling collection protocols. Moreover, PAWC's proposal would hurt the same customers it claims to be concerned about. In fact, PAWC's proposal is punitive towards those customers. Essentially, PAWC is proposing to increase rate base and charge customers more for service because the former system operator did consistently collect testing samples. Viewed differently, the nature of the violations was not so critical as to require PAWC to pay the acquisition adjustment in order to take over the system to immediately eliminate a critical health, safety and reliability threat. Thus, PAWC has not met all criteria required under Section 1327. In fact, PAWC's proposal is unreasonable and should not be allowed by the Commission.

Q. **WHAT ARE THE REASONS PROVIDED BY THE COMPANY FOR REQUESTING SECTION 1327 TREATMENT FOR THE AUDUBON WATER SYSTEM?**

A. According to PAWC the Audubon system satisfies each of the nine criteria contained in Section 1327. PAWC states:

1) All of the assets acquired by PAWC are used and useful in the public service.
2) The Audubon system had 2,893 customers as of June 30, 2025, which is fewer than 3,300 customer connections.
3) The Audubon system struggled to provide adequate, efficient, safe and reasonable service and facilities because the owners of the system were of retirement age, they were no longer able to properly manage and operate the system, and they did not have successors available to assume management of the system.
4) PAWC has made and will continue to make reasonable and prudent investments to provide adequate, efficient, safe and reasonable service and facilities.
5) Audubon agreed to the acquisition and the negotiations were conducted at arm's length.
6) The purchase price of $7,200,000 (with the Section 1327(a) contingency) is reasonable.

7) PAWC is not affiliated with AWC.

8) The transaction will have a de minimus impact on rates because the rates charged to PAWC's preacquisition customers will not increase unreasonably because of the acquisition since the proposed rate base for this system is less than 0.08% of PAWC's $4.7 billion rate base at the end of the FPFTY.

9) The excess of the acquisition cost over depreciated original cost will be added to rate base to be amortized over ten years.

Q. **DO YOU AGREE THAT THE AUDUBON ACQUISITION MET ALL CRITERIA TO MEET THE SECTION 1327 REQUIREMENTS FOR INCLUSION OF THE ACQUISITION ADJUSTMENT IN RATE BASE?**

A. No. I do not. It is important to keep in mind that in order to include an acquisition adjustment in rate base, all requirements must be met. PAWC has failed to provide convincing evidence that Audubon met the third criterion for including the acquisition adjustment in rate base. The third criterion is that, at the time of acquisition, the acquired utility was not furnishing and maintaining adequate, efficient, safe and reasonable service and facilities. Instead, PAWC simply cites the challenges Audubon faced in operating the water system. For instance, PAWC states "the AWC system struggled to provide adequate, efficient, safe and reasonable service and facilities **because** [emphasis added] the owners of the system were of retirement age, they were no longer able to properly manage and operate the system, and they did not have successors available to assume management of the system."[9] Here, PAWC incorrectly assumed that the age of the system's prior owners was evidence that the acquired utility failed to furnish and maintain adequate, efficient, safe and reasonable service and facilities. In fact, in its most recent rate case filed in December 2024 in Docket No. R-2024-3051816, Audubon presented historical test year labor expenses of over

[9] Direct Testimony of Don Wieczenski at 22:1-4.

$1,000,000 for labor expenses, excluding officers and executives.[10] This proves the system was not solely dependent on the owners for performing its day-to-day duties and operations.

PAWC also argues that at the time of PAWC's acquisition of the AWC system, AWC faced inadequate water supply and quality issues challenged by proximity to an EPA superfund site; furthermore, AWC's customer base had been increasing with demand outstripping its production levels, and AWC was unable to rely on its water wells to meet its customers' needs.[11] PAWC states further that:

> In addition, eleven out of the system's fifteen wells were tested and found to have detectable levels of PFAS. Moreover, AWC had some secondary exceedances on some of its wells, including two wells with sulphate exceedances that prevented redrilling. As AWC was limited in its sources of supply, AWC would have been forced to construct PFAS treatment for these wells. The cost of constructing and operating these treatment units would have ranged in the tens of millions of dollars, causing a significant financial burden on the system's customers. AWC did not have the ability to spread these costs over a large customer base nor the technical expertise to properly operate these complex treatment units.[12]

Again, these are some of the challenges of operating a water utility and a business, and perhaps, demonstrates that the previous owners of the system, despite being of retirement age, still maintained the business acuity to devise an exit strategy. Nevertheless, PAWC has failed to demonstrate the acquired utility was not furnishing and maintaining adequate, efficient, safe and reasonable service and facilities as required by the third criterion of Section 1327. PAWC has also provided no evidence of water shut-offs resulting from inadequate water supply, and PAWC has not provided evidence of any serious health or illnesses being passed on by the water from Audubon.

[10] Docket No. R-2024-3051816, Schedule I-4, Page 1 of 3.
[11] Direct Testimony of Don Wieczenski at 22:4-8.
[12] *Id.* at 11-19.

In my opinion, PAWC is attempting to distort business operation challenges in order to justify the inclusion of the acquisition adjustment in rate base.

Another criterion that PAWC has failed to demonstrate is the sixth criterion, which is a finding that the actual purchase price is reasonable. According to PAWC, the purchase price of $7,200,000 includes a Section 1327(a) contingency.[13] In my opinion, the existence of this contingency suggests doubt by the parties to the transaction that the purchase price is reasonable and that the acquisition adjustment is recoverable.

Q. **WHAT ARE THE REASONS PROVIDED BY THE COMPANY FOR REQUESTING SECTION 1327 TREATMENT FOR THE MANWALAMINK WATER AND WASTEWATER SYSTEMS?**

A. According to PAWC, the acquisition of the Manwalamink system qualifies for Section 1327 treatment because:

1) All of the assets acquired by PAWC are used and useful in the public service.
2) The MWC water system has approximately 1,263 customers, which is fewer than 3,300 customer connections.
3) The MWC water system struggled to provide and maintain adequate, efficient, safe and reasonable service and facilities because of the age of the owners. The owners of MWC could not maintain adequate, efficient, safe, and reasonable service and facilities due to their advanced age.
4) PAWC will make reasonable and prudent investments to provide adequate, efficient, safe and reasonable service and facilities.
5) MWC agreed to the acquisition and the negotiations were conducted at arm's length.
6) The purchase price of $1,209,000 is reasonable.
7) PAWC is not affiliated with MWC.

[13] Direct Testimony of Don Wieczenski at 25:3.

8) The transaction will have a de minimus impact on rates because the rates charged to PAWC's preacquisition customers will not increase unreasonably because of the acquisition. The proposed rate base for this system is $1,809,000, which represents less than 0.04% of PAWC's $4.7 billion rate base at the end of the FPFTY.

9) The excess of the acquisition cost over depreciated original cost will be added to rate base to be amortized over 10 years (a reasonable period) with corresponding reductions in the rate base.

Q. **DO YOU AGREE THAT THE MANWALAMINK ACQUISITION MET ALL CRITERIA TO MEET THE SECTION 1327 REQUIREMENTS FOR INCLUSION OF THE ACQUISITION ADJUSTMENT IN RATE BASE?**

A. No. I do not. In my opinion, PAWC has not demonstrated that all criteria under Section 1327 have been met. PAWC has failed to provide convincing evidence that Audubon met the third criterion for including the acquisition adjustment in rate base.

First, PAWC has not met criterion number three under Section 1327. According to the third criterion, at the time of acquisition, PAWC claims the acquired utility was not furnishing and maintaining adequate, efficient, safe and reasonable service and facilities. However, the only evidence offered was PAWC's simple assertion that the prior owners of Manwalamink could not maintain adequate, efficient, safe, and reasonable service and facilities due to their advanced age.

In fact, during the acquisition proceeding (Docket Nos. A-2023-3044418; A-2023-3044419; A-2023-3044421 and A-2023-3044422), no party, including PAWC, claimed that Manwalamink was not furnishing and maintaining adequate, efficient, safe and reasonable service and facilities. In the acquisition proceeding, Manwalamink's testimony revealed that the age of the owners was irrelevant to the day-to-day operation of the system. However, in this proceeding, PAWC is now claiming that Manwalamink struggled to provide and maintain adequate, efficient, safe and reasonable service and

facilities because of the age of the owners. Manwalamink's witness Robert A. Shebelsky, the then Chairman and CEO of Manwalamink Water Company and Manwalamink Sewer Company, testified that he was responsible for overseeing all aspects of the business of both companies. He explained that the main rationale for the sale of Manwalamink was the ages of the owners and a key employee, however, he indicated that Manwalamink retained EEMA O&M Services Group, Inc. to cover day to day operations.[14] It is important to recognize this fact to dispel the notion put forth by PAWC that Manwalamink's system operations, service and facilities had deteriorated because of the age of the owners of the system.

The second criterion that PAWC has not met is the purchase price of the system. In the acquisition proceeding, the OCA found that the combined purchase price for the system was an amount adopted from a previous third party-negotiated sale purchase agreement decided before Manwalamink became a target of acquisition by PAWC. Accordingly, PAWC accepted the purchase price as part of the deal which PAWC took assignment of the sale purchase agreement that was previously negotiated by another party.[15] Hence, it is unclear if PAWC can attest that the purchase price was reasonable or that the purchase price was the result of an arm's length negotiation between PAWC and Manwalamink. In fact, the data showed that PAWC offered to pay a price that was 111% in excess of book value[16] for a system that PAWC now claims was providing inadequate service.

[14] Docket Nos. A-2023-3044418; A-2023-3044419; A-2023-3044421 and A-2023-3044422, Direct Testimony of Robert A. Shebelsky at 6:7-16.
[15] Docket Nos. A-2023-3044418; A-2023-3044419; A-2023-3044421 and A-2023-3044422, Direct Testimony of Lafayette Morgan, Jr. at 13:17-14:18.
[16] *Id.* at 15.

2. Payroll Expense

Q. **PLEASE EXPLAIN YOUR ADJUSTMENT TO PAYROLL EXPENSE.**

A. The Company calculated its annualized payroll expense based on a total of 1,278 full-time equivalent employees as the appropriate staffing level for the Company's water and wastewater operations in the FPFTY. As of the end of the HTY, there were 72 open positions including 12 newly created positions. According to the Company, it has assumed a full complement of employees in the derivation of its annual payroll expense claim.

3. Incentive Compensation Expense

Q. **PLEASE EXPLAIN YOUR ADJUSTMENT TO INCENTIVE COMPENSATION EXPENSE.**

A. PAWC has established a policy whereby a portion of its employee compensation is considered to be performance-based with the intent of driving employee performance. I have reviewed the calculation of the performance-based compensation and removed the component of the performance pay related to achievement of earnings goals. The achievement of earnings goals is primarily targeted towards increasing shareholder value and benefiting shareholders. Therefore, these costs are not properly recoverable from ratepayers for several reasons.

First, if the financial targets are set properly, achieving the necessary performance should be self-supporting. This means that the measures that achieve additional cost savings, increase revenue, or otherwise improve financial results should generate the necessary income to cover the incentive plan payments. Second, these payments are not tied to ratepayer benefits such as meeting quality of service, operational efficiency, or conservation goals. Finally, the incentive to improve

financial performance is not necessarily consistent with the interests of PAWC's ratepayers, but, instead, is more aligned with shareholders' interests. Shareholder value has a correlation to earnings, so when improved earnings are reported, shareholder value improves but rates do not go down. Thus, the beneficiaries of the improved earnings are the shareholders. Therefore, it is appropriate for shareholders, not ratepayers, to bear these costs.

4. Towamencin Township Transaction Costs

Q. **PLEASE EXPLAIN YOUR ADJUSTMENT TO THE TOWAMENCIN TRANSACTION COSTS.**

A. On May 15, 2023, PAWC filed an application with the Commission under Sections 1102(a) and 1329 of the Code, 66 Pa. C.S. Sections 1102(a) and 1329, for approval of the right to acquire substantially all of the wastewater system assets of Towamencin Township ("Towamencin"). Additionally, on May 12, 2023, Towamencin filed an application, nunc pro tunc, (the "Nunc Pro Tunc Application") to offer, furnish, render or supply wastewater service to the public in certain portions of Worcester, Lower Salford, and Franconia Townships and Lansdale Borough in Montgomery County, Pennsylvania at Docket No. A-2023-3040661.[17]

On January 18, 2024, the Commission approved in its entirety the Amended Joint Petition for Non-Unanimous Settlement filed November 1, 2023, for the Nunc Pro Tunc Application. On February 7, 2024, the Commission issued a Certificate of Public Convenience ("Towamencin CPC") to Towamencin. This action was taken pursuant to Section 1101 of Code, 66 Pa. C.S. Section 1101. The certificate authorized Towamencin, nunc pro tunc, to begin to offer, render, furnish and supply wastewater

[17] Docket Nos. A-2023-3039900 & A-2024-3050135, September 24, 2024, Commission Letter to the Joint Applicants legal representatives.

service to the public in a portion of Worchester Township and Lower Salford Township, and to bulk customers that interconnect to Towamencin's sewer system outside of Towamencin's geographic boundaries. This authorization is consistent with the revised map and written description of the requested service territory provided in the Amended Joint Petition for Non-Unanimous Settlement and admitted Stipulated Exhibits, effective January 18, 2024.[18]

On September 12, 2024, the Joint Applicants filed a letter with the Commission at the above-referenced dockets indicating that on September 11, 2024, PAWC-WD and Towamencin had mutually agreed to terminate the underlying transaction that was the subject of the Joint Application and requested leave to withdraw the Joint Application.[19]

In accordance with 52 Pa. Code Section 1.82(a), no party objected to the letter petition within 10 days of service, and the matter was stricken by the Commission. Effective September 23, 2024, the above-referenced Joint Application was withdrawn and the Commission's proceedings were marked closed.[20]

In this proceeding, PAWC is seeking to recover $660,138, amortized over 10 years, in transaction costs related to this matter. Given that the transaction was withdrawn and closed, I do not believe it is appropriate to recover the transaction costs, related to the withdrawn transaction, from ratepayers. PAWC made a business decision to pursue the acquisition of the Towamencin system. That decision came with certain risks that PAWC must bear. The existing PAWC ratepayers should not be required to absorb the costs related to the failed transaction.

[18] *Id.*
[19] *Id.*
[20] *Id.*

5. Group Insurance Expense

Q. **PLEASE EXPLAIN YOUR ADJUSTMENT TO GROUP INSURANCE EXPENSE.**

A. The Company derived the FPFTY group insurance expense based upon the three-year average from the years 2023 through 2026. According to the Company, the 3-year average was used because the 2027 group insurance rates are not yet known. However, the 3-year average of the rates from a historical period is more reflective of actuarial factors that were relevant at that time, rather than being predictive of the conditions during the FPFTY.

Therefore, the adjustment I recommend is to use the 2026 group insurance rates because they are most recent known rates and more aligned with current actuarial considerations.

6. Transportation Expense

Q. **PLEASE EXPLAIN YOUR ADJUSTMENT TO TRANSPORTATION EXPENSE.**

A. The FPFTY transportation expense was derived from the number of units in the Company's fleet, the average monthly leasing fees, and the inclusion of other transportation expenses (e.g., fuel and titling). In addition, the Company applied a 6.94% inflation factor to certain expenses, based on the three-year average (2023-2025) of the Consumer Price Index ("CPI") for Transportation Services.

I am recommending an adjustment that removes the inflation escalation effect from the projected FPFTY expenses. There are two primary reasons for the inflation escalation. First, historical inflation rates are not good predictors of future inflation, as demonstrated by current inflation rates compared to rates during 2023. For example,

using the data presented by the Company between December 2023 and December 2024, the transportation CPI increased by an annual rate of 7.47%. However, between December 2024 and December 2025 the transportation CPI increased by an annual rate of 1.72%. Clearly the rate of inflation has decreased when compared to the three-year average used by the Company. Second, the Company's historical data reveals that these expenses, to which the inflation rate was applied, did not follow the inflation trend. For example, fuel expenses decreased from the historical period to 2025. Additionally, titling and registration fees are generally fixed until changed by jurisdictional authority. Therefore, I believe the Company's approach is unreasonable.

7. PURTA Tax

Q. **PLEASE EXPLAIN YOUR ADJUSTMENT TO PURTA EXPENSE.**

A. In PAWC's cost of service, it included $ $2,161,310 in Public Utility Realty Tax Act ("PURTA") expense. The Pennsylvania Department of Revenue released notices indicating that the PURTA rate for calendar years 2025 and 2026 will be 0 mills. This means there will be no PURTA expense for those years. Therefore, I am recommending an adjustment on Exhibit LKM-15 that reduces PURTA expense by $1,410,000.

8. Interest Synchronization

Q. **PLEASE EXPLAIN YOUR INTEREST SYNCHRONIZATION ADJUSTMENT.**

A. To determine the tax deductible interest expense for ratemaking, I multiplied the OCA's recommended rate base by the weighted cost of debt included in the capital structure recommended by the OCA's rate of return expert, David Garrett.[21] This

[21] *See* OCA Statement No. 2 at Exhibit DJG-13.

procedure synchronizes the interest expense deduction for tax purposes with the interest component of the return on rate base to be recovered from ratepayers.

9. Pension and OPEB Expense and Request for Deferred Accounting Treatment

Q. **PLEASE EXPLAIN THE COMPANY'S PROPOSED PENSION AND OPEB EXPENSE CLAIM AND ITS REQUEST FOR A DEFERRED ACCOUNTING MECHANISM.**

A. For ratemaking and financial reporting purposes, PAWC uses the accrual basis to record and recover pension and OPEB expenses. As such, the Company's pension and OPEB claims in this case are based on its 2025 pension and OPEB actuarial reports. This practice of using the accrual method to record these expenses is consistent with Financial Accounting Standard Board Accounting Standards Codification ("ASC") 715. Under the accrual approach, the expense is recognized during the period which the employee provides service to their employer. However, for ratemaking, in the Company's last rate case, the Company's recovery in rates for pension and OPEB was based upon a 3-year average of the accrual amount.

The Company's position is that the 3-year average approach is not appropriate to determine the amount allowed in rates to recover OPEB and Pension Expenses and blames the 3-year average for significant under-recovery of costs. Hence, PAWC is requesting Commission authorization to establish regulatory accounts for its pension and OPEB expenses.

Q. **DO YOU AGREE THAT A DEFERRED ACCOUNT IS NECESSARY?**

A. No. When using a fully projected test year, it is impossible to project future expenses with 100% accuracy. In fact, the nature of ratemaking usually results in actual amounts that differ from the projections. Some expenses are higher than projected, while others

are lower. The deferred accounting proposal amounts to single issue ratemaking. Here, the Company is asking for special treatment of these expenses while all other costs are subject to the standard ratemaking process. Moreover, a less-than-full recovery does not create a cash flow deficit, as these expenses are accruals rather than require immediate cash requirements. The use of a deferred account mechanism for pension and OPEB expenses would set a precedent that encourages additional requests for similar treatment for other costs. Finally, the deferred account mechanism is retroactive ratemaking that requires future ratepayers to pay for costs caused by current ratepayers. In other words, it shifts the cost burden from the current ratepayers that receive the benefits of the service and imposes those costs on future ratepayers. Retroactive ratemaking is not allowed under traditional ratemaking practice, and it is also not allowed by this Commission. For these reasons, I recommend that the request for the deferred mechanism be denied.

Q. **DOES THIS COMPLETE YOUR DIRECT TESTIMONY?**

A. Yes, it does.

BEFORE THE

PENNSYLVANIA PUBLIC UTILITY COMMISSION

PENNSYLVANIA PUBLIC UTILITY COMMISSION	:	
	:	DOCKET NOS.
V.	:	R-2025-3057983
	:	R-2025-3058051
PENNSYLVANIA AMERICAN WATER COMPANY	:	

EXHIBITS ACCOMPANYING
DIRECT TESTIMONY
OF
LAFAYETTE K. MORGAN, JR.

Pennsylvania-American Water Company
Summary
For the Future Test Year Ended June 30, 2027

Line No.	Description	Total Company	Water Operations	Wastewater SSS General Operations	BASA Wastewater Operations	CSS Wastewater Operations	Elizabeth Borough CSS Wastewater Operations
1	Present Rate Revenue	$ 1,156,621,085	$ 947,784,779	$ 108,561,975	$ 12,748,475	$ 85,758,589	$ 1,767,267
2	Additional Revenue Requirement	(17,331,252)	(40,375,116)	2,689,455	20,706,700	(3,085,512)	2,733,221
3	Act 11 - Wastewater Allocation	-	53,010,182	(12,710,621)	(30,280,040)	(7,062,475)	(2,957,133)
4	Proposed Revenues	$ 1,139,289,833	$ 960,419,845	$ 98,540,809	$ 3,175,135	$ 75,610,602	$ 1,543,355
5							
6	Rate Increase/ (Decrease)	(17,331,252)	12,635,066	(10,021,166)	(9,573,340)	(10,147,987)	(223,912)
7		-1.5%	1.3%	-9.2%	-75.1%	-11.8%	-12.7%

Source: Company Exhibit 3-A.

Pennsylvania-American Water Company
Water Operations
Cost of Service
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Company Amounts at Present Rates [1/]	OCA Adjustments	Amounts After OCA Adjustments	Pro Forma Change in Revenues	Amounts After Change in Revenues
1	Total Operating Revenues	$ 947,784,779	$ -	$ 947,784,779	$ (40,375,116)	$ 907,409,663
2						
3	Operating Expenses					
4	Operation and Maintenance	282,731,634	(7,300,132)	275,431,502	(442,915)	274,988,587
5	Depreciation	227,310,354	(36,952,810)	190,357,544		190,357,544
6	Amortizations	1,268,715	(520,652)	748,063	-	748,063
7	Total Operating Expenses	$ 511,310,703	$ (44,773,594)	$ 466,537,109	$ (442,915)	$ 466,094,194
8						
9	Operating Income Before Income Taxes	$ 436,474,076	$ 44,773,594	$ 481,247,670	$ (39,932,201)	$ 441,315,469
10						
11	Taxes					
12	Taxes Other Than Income	$ 17,198,781	$ (2,655,801)	$ 14,542,980	$ (294,187)	$ 14,248,793
13	Federal Income Tax	45,853,646	9,280,523	55,134,169	(7,742,137)	47,392,032
14	State Income Tax	19,475,137	3,321,243	22,796,380	(2,770,697)	20,025,683
15	Deferred Income Taxes	(233,592)		(233,592)	-	(233,592)
16	Net Income	$ 354,180,104	$ 34,827,630	$ 389,007,734	$ (29,125,180)	$ 359,882,554
17						
18	Rate Base	$ 5,174,843,488		$ 5,170,726,338		$ 5,170,726,338
19						
20	Rate of Return	6.84%		7.52%		6.96%
21						

Source: Company Exhibit 3-A, Water Operations, Page 1.

Pennsylvania-American Water Company
Water Operations
Summary of Revenue Increase at OCA Rate of Return
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description		Amount
1	Adjusted Rate Base		$ 5,170,726,338 [1/]
2	Required Rate of Return		6.96% [2/]
3			
4	Net Operating Income Required		$ 359,882,553
5	Net Operating Income at Present Rates		389,007,734 [3/]
6			
7	Income Deficiency/(Surplus)		$ (29,125,181)
8	Revenue Multiplier		1.386261
9			
10	Required Change in Company Revenue		$ (40,375,116)
11			
12	Proposed Revenue Change		$ (40,375,116)
13	Less: Uncollectibles	1.0970% [5/]	$ (442,915)
14	Net of Uncollectibles		$ (39,932,201)
15	Less: Regulatory Fees	0.7367% [6/]	$ (294,187)
16	Net of Regulatory Fees		$ (39,638,014)
17	Less: State Income Tax @ 6.99%	6.99% [7/]	$ (2,770,697)
18	Income Before Federal Taxes		$ (36,867,317)
19	Federal Income Tax @ 21.0%	21.00% [7/]	(7,742,137)
20	Net Income (Surplus)/Deficiency		$ (29,125,180)

Note:
[1/] Exhibit LKM-2, Page 1.
[2/] Exhibit LKM-5.
[3/] Exhibit LKM-1, Page 1.
[4/] Company filing Volume 3, Water Operations, page 68.
[5/] Company filing Volume 3, Water Operations, page 124.
[6/] Company filing Volume 3, Water Operations, page 70.
[7/] Company filing Volume 3, Water Operations, page 72.

Pennsylvania-American Water Company
Water Operations
Summary of Rate Base
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount per Company Filing	OCA Adjustments	Amount After OCA Adjustments
1	Utility Plant			
2	Non-Depreciable Plant	$ 24,847,632	$ -	$ 24,847,632
3	Depreciable Plant	8,262,267,383	-	8,262,267,383
4	Total Utility Plant	$ 8,287,115,015	$ -	$ 8,287,115,015
5				
6	Utility Plant Deductions			
7	Contributions in Aid of Construction	309,073,376		309,073,376
8	Customer Advances for Construction	72,509,763		72,509,763
9	Excluded Property	1,558,014		1,558,014
10	Total Utility Plant Deductions	$ 383,141,153	$ -	$ 383,141,153
11				
12	Net Plant	$ 7,903,973,862	-	$ 7,903,973,862
13				
14	Accumulated Depreciation	1,629,875,724.00		1,629,875,724
15	Depreciated Utility Plant in Service	$ 6,274,098,138	$ -	$ 6,274,098,138
16				
17	Additions to Net Plant			
18	Materials and Supplies	23,643,737		23,643,737
19	Cash Working Capital - Expenses	25,170,058		25,170,058
20	Accrued and Prepaid Taxes	5,634,190		5,634,190
21	Acquisition and Adjustments	9,782,100	$ (4,117,150)	5,664,950
22	Other Additions	2,612,252		2,612,252
23	Total Additions	$ 66,842,337	$ (4,117,150)	$ 62,725,187
24	Deductions to Net Plant			
25	Cash Working Capital - Int and Div	13,624,599		13,624,599
26	Unamortized ITC (3%)	189,479		189,479
27	Extension Deposits in Suspense	38,165		38,165
28	Citizens Acquisition of CIAC & CAC, per Settlement	16,890,221		16,890,221
29	TCJA - Stub Period	-		-
30	Other Deductions	376,128		376,128
31	Deferred Taxes	1,134,978,395	-	1,134,978,395
32	Total Deductions	$ 1,166,096,987	$ -	$ 1,166,096,987
33	Total Rate Base	$ 5,174,843,488	$ (4,117,150)	$ 5,170,726,338

Source: Company Exhibit 3-A, Water Operations, Page 26.

Pennsylvania-American Water Company
Water Operations
Summary of Rate Base Adjustments
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Source	Amount
1	Rate Base per Company Filing		$ 5,174,843,488
2			
3	OCA Adjustments:		
4	Remove Water Acquisition Adjustments		(4,117,150)
5			
6			
7	Total Ratemaking Adjustments		$ (4,117,150)
8			
9	Adjusted Rate Base per OCA		$ 5,170,726,338

Pennsylvania-American Water Company
Water Operations
Summary of Adjustments to Operating Income
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Operating Revenues	Operation and Maintenance	Depreciation Expense	Amortization Expense	Taxes Other Than Income	State Income Tax	Federal Income Tax	Operating Income
1	Amount per Company	$947,784,779	$282,731,634	$227,310,354	$ 1,268,715	$17,198,781	$19,475,137	$45,620,054	$ 354,180,104
2									
3	OCA Adjustments:								
4	Salaries and Wages	$ -	($1,900,628)	$ -	$ -	($145,398)	$ 143,017	$ 399,632	$ 1,503,377
5	Annual Performance Pay	-	(4,554,381)	-	-	(349,093)	342,753	957,751	3,602,970
6	Group Insurance	-	(441,433)	-	-	-	30,856	86,221	324,356
7	Transsportation Expense	-	(403,691)	-		-	28,218	78,849	296,624
8	Adjustment to Acquisition Amortization	-	-	-	(453,264)	-	31,683	88,532	333,049
9	Transaction Costs Amortization	-	-	-	(67,388)	-	4,710	13,162	49,515
10	Remove PURTA	-	-	-	-	(2,161,310)	151,076	422,149	1,588,085
11	Change in Depreciation Rates	-	-	(36,952,810)	-	-	2,583,001	7,217,660	27,152,149
12	Interest Synchronization	-	-	-	-	-	5,928	16,566	(22,494)
13									
14	Total OCA Adjustments	$ -	$ (7,300,132)	$ (36,952,810)	$ (520,652)	$ (2,655,801)	$ 3,321,243	$ 9,280,523	$ 34,827,630
15									
16	Total Adjusted Income Before Income Taxes	$947,784,779	$275,431,502	$190,357,544	$ 748,063	$14,542,980	$48,941,297	$28,755,660	$ 389,007,734

Pennsylvania-American Water Company
Water Operations
Adjustment to Salaries and Wages Expense
For the Fully Projected Future Test Year Ending June 30, 2027

	2027	Budgeted Number of Employees [1/]	Average Salary And Wages per Employee	Number of Employees Adjusted for Vacancy	Adjusted FPFTY Salaries & Wages	Adjustment to Salaries & Wages	Budgeted Positions Filled Rate
	(a)	(b)	(c)=a/b	(d)=b X f	(e)=c X d	(f)=e-a	(f)
Water Operations							
Non-Collective Bargaining Unit Salary	$34,519,930						
Collective Bargaining Unit	52,644,229						
Non-Collective Bargaining Unit Hourly	18,426,280						
Total	$105,590,439	1,068	$98,867.45	1,049	$103,689,811	($1,900,628)	98.2%
Payroll Tax Effect (@7.65%)						($145,398)	
Wastewater SSS General Operations							
Non-Collective Bargaining Unit Salary	$1,494,355						
Collective Bargaining Unit	1,503,855						
Non-Collective Bargaining Unit Hourly	3,864,243						
Total	$6,862,453	79	$86,866.49	77	$6,677,167	($185,286)	97.3%
Payroll Tax Effect (@7.65%)						($14,174)	
BASA WW Operations							
Non-Collective Bargaining Unit Salary	$471,557						
Collective Bargaining Unit	2,230,662						
Non-Collective Bargaining Unit Hourly	63,058						
Total	$2,765,276	29	$95,354.36	29	$2,754,215	($11,061)	99.6%
Payroll Tax Effect (@7.65%)						($846)	
Wastewater CSS Operations							
Non-Collective Bargaining Unit Salary	$1,112,821						
Collective Bargaining Unit	7,611,368						
Non-Collective Bargaining Unit Hourly	108,323						
Total	$8,832,512	99	$89,443.16	98	$8,797,182	($35,330)	99.6%
Payroll Tax Effect (@7.65%)						($2,703)	

Notes
[1/] I&E RE-018-D_Attachment 1

Pennsylvania-American Water Company
Water Operations
Adjustment to Annual Performance Pay
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount [1/]	Earnings-Related Percentage [2/]	Adjustment to Annual Performance Pay
		(a)	(b)	(c)
1	**Water Operations**			
2	Non-Collective Bargaining Unit Salary	$6,213,845		
3	Collective Bargaining Unit	1,706,222		
4	Non-Collective Bargaining Unit Hourly	1,188,694		
5	Total	$9,108,761	50%	($4,554,381)
6	Payroll Tax Effect (@7.65%)			($349,093)
7	**Wastewater SSS General Operations**			
8	Non-Collective Bargaining Unit Salary	$195,340		
9	Collective Bargaining Unit	52,940		
10	Non-Collective Bargaining Unit Hourly	261,680		
11	Total	$509,960	50%	($254,980)
12	Payroll Tax Effect (@7.65%)			($19,544)
13	**BASA WW Operations**			
14	Non-Collective Bargaining Unit Salary	$61,553		
15	Collective Bargaining Unit	84,046		
16	Non-Collective Bargaining Unit Hourly	4,414		
17	Total	$150,013	50%	($75,007)
18	Payroll Tax Effect (@7.65%)			($5,749)
19	**Wastewater CSS Operations**			
20	Non-Collective Bargaining Unit Salary	$141,082		
21	Collective Bargaining Unit	253,139		
22	Non-Collective Bargaining Unit Hourly	12,994		
23	Total	$407,215	50%	($203,608)
	Payroll Tax Effect (@7.65%)			($15,607)

Notes
[1/] EXHIBIT NO. 3-B, Page 62.
[2/] FR III.22

Pennsylvania-American Water Company
Water Operations
Adjustment to Group Insurance Expense
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount
	Water Operations	
1	PAWC Pro forma Adjustment to Group Inusrance Expense	$ 441,433 [1/]
2		
3	Adjustment to Insurance Escalation	$(441,433)
4		
5	Waterwater SS Operations	
6	PAWC Pro forma Adjustment to Group Inusrance Expense	$ 47,250 [2/]
7		
8	Adjustment to Insurance Escalation	$ (47,250)
9		
10	BASA WW Operations	
11	PAWC Pro forma Adjustment to Group Inusrance Expense	$ 17,996 [3/]
12		
13	Adjustment to Remove Insurance Escalation	$ (17,996)
14		
15	Wastewater CSS Operations Operations	
16	PAWC Pro forma Adjustment to Group Inusrance Expense	$ 56,590 [4/]
17		
18	Adjustment to Remove Insurance Escalation	$ (56,590)

Notes:
[1/] PAWC Exhibit No. 3A, Page 49.
[2/] PAWC Exhibit No. 3A, Page 111.
[3/] PAWC Exhibit No. 3A, Page 159.
[4/] PAWC Exhibit No. 3A, Page 208.

Pennsylvania-American Water Company
Water Operations
Adjustment toTransportation Expense
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount
1	**Water Operations**	
2	OCA FPFTY Transportation Expenses	$2,917,533
3	PAWC FPFTY Transportation Expenses	3,321,224
4	Adjustment to Transportation Expenses	(403,691)
5		
6		
7	**Wastewater SSS General Operations**	
8	OCA FPFTY Transportation Expenses	$148,752
9	PAWC FPFTY Transportation Expenses	168,807
10	Adjustment to Transportation Expenses	(20,055)
11		
12		
13	**BASA WW Operations**	
14	OCA FPFTY Transportation Expenses	$54,333
15	PAWC FPFTY Transportation Expenses	61,692
16	Adjustment to Transportation Expenses	(7,359)
17		
18		
19	**Wastewater CSS Operations**	
20	OCA FPFTY Transportation Expenses	$389,061
21	PAWC FPFTY Transportation Expenses	442,804
22	Adjustment to Transportation Expenses	12,994

Docket No. R-2025-3057983 (Water)
& R-2025-3058051 (Wastewater)
Exhibit LKM -8W

Pennsylvania-American Water Company
Water Operations
Adjustment to Acquisition and Transaction Costs
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Rate Base Amount	Annual Amortization
1	Water Acquisition Adjustments		
2	Farmington Township (Water)	$ 123,028	$ 13,544
3	Audubon Water	2,942,792	323,977
4	Manwalamink Water	1,051,330	115,743
5		$ 4,117,150	$ 453,264
6	Sewer Acquisition Adjustments		
7	Farmington Township (Water)	$ 961,320	$ 105,833
8			
9	Transaction Costs		
10	Manwalamink Water Transactions Costs - Initial Nextera Bid		$ 1,374
11	Towamencin Township		66,014
			$ 67,388

Pennsylvania-American Water Company
Water Operations
Adjustment to Remove PURTA Expense
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount
	Water Operations	
1	Total PURTA	$ 2,161,310 [1/]
2		
3	Adjustment to Taxes Other Than Income	$(2,161,310)
4		

Note:
[1/] PAWC Exhibit No. 3A, page 68.

Docket No. R-2025-3057983 (Water)
& R-2025-3058051 (Wastewater)
Exhibit LKM -10W

Pennsylvania-American Water Company
Water Operations
Interest Synchronization Adjustment
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount	
1	Company Rate Base	$ 5,170,726,338	1/
2	Weighted Cost of Debt	2.060%	2/
3	Adjusted Interest Deduction	$ 106,516,963	
4	Interest Deduction Per Company	106,601,776	3/
5	Adjustment to Synchronize Interest Expense	$ (84,813)	
6	Effective State Income Tax Rate	6.99%	
7	Adjustment to State Income Taxes	$ 5,928	
8	Federal Income Tax Base	$ (78,885)	
9	Federal Income Tax Rate	21.00%	
10	Adjustment to Federal Income Taxes	$ 16,566	

Notes:
1/ Exhibit LKM-2, Page 1.
2/ See Exhibit LKM-__
3/ Exhibit No. 3A, Page 72

Pennsylvania-American Water Company
Water Operations
Calculation of Rate of Return
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Capitalization Ratio	Cost Rate	Weighted Cost
1	Debt	43.70%	4.71%	2.06%
2	Prefered Stock	0.00%		0.00%
3	Common Stock	56.30%	8.70%	4.90%
4				
5	Total	100.00%		6.96%

Source:
Recommended by OCA witness Garrett

Pennsylvania-American Water Company
Wastewater SSS Operations
Cost of Service
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Company Amounts at Present Rates [1/]	OCA Adjustments	Amounts After OCA Adjustments	Pro Forma Change in Revenues	Amounts After Change in Revenues
1	Total Operating Revenues	$ 108,561,975	$ -	$ 108,561,975	$ 2,689,455	$ 111,251,430
2						
3	Operating Expenses					
4	Operation and Maintenance	$ 29,374,837	$ (507,572)	28,867,265	29,503	28,896,768
5	Depreciation	28,338,641	(5,801,678)	22,536,963	-	22,536,963
6	Amortizations	255,169	(173,221)	81,948	-	81,948
	Total Operating Expenses	57,968,647	(6,482,471)	$ 51,486,176	$ 29,503	$ 51,515,679
7	Taxes Other Than Income					
8	Local Property And Miscellaneous	1,251,643	-	$ 1,251,643	$ -	$ 1,251,643
9	Federal Environmental Tax	-	-	-	-	-
10	Public Utility Realty Taxes	-	-	-	-	-
11	Payroll Taxes	468,931	($33,719)	435,212	-	435,212
12	General Assessment	775,917	-	775,917	19,596	795,513
13	Other Taxes and Licenses	-	-	-	-	-
14	Total Taxes Other Than Income	2,496,491	(33,719)	$ 2,462,772	$ 19,596	$ 2,482,368
15	Income Taxes					
16	Federal Income Tax	8,176,053	1,276,429	$ 9,452,482	$ 515,717	$ 9,968,199
17	State Income Tax	3,134,563	456,799	3,591,362	184,561	3,775,923
18	Deferred Income Taxes	-	-	-	-	-
19						
20	Total Operating Revenue Deductions	71,775,754	(4,782,962)	$ 66,992,792	$ 749,377	$ 67,742,169
21						
22	Net Income	$ 36,786,221	$ 4,782,962	41,569,183	1,940,078	43,509,261
23						
24	Rate Base	$ 661,192,899		$ 660,231,579		$ 660,231,579
25						
26	Rate of Return	5.56%		6.30%		6.59%

Source: Company Exhibit 3-A, Wastewater SSS General Operations, Page 75.

Pennsylvania-American Water Company
Wastewater SSS Operations
Summary of Revenue Increase at OCA Rate of Return
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description		Amount	Source
1	Adjusted Rate Base		$ 660,231,579	1/
2	Required Rate of Return		6.59%	2/
3				
4	Net Operating Income Required		43,509,261	
5	Net Operating Income at Present Rates		41,569,183	3/
6				
7	Income Deficiency/(Surplus)		1,940,078	
8	Revenue Multiplier		1.386261	
9				
10	Required Change in Company Revenue		$ 2,689,455	
11				
12	Proposed Revenue Change		$ 2,689,455	
13	Less: Uncollectibles	1.097% 5/	$ 29,503	
14	Net of Uncollectibles		$ 2,659,952	
15	Less: Regulatory Fees	0.7367% 6/	$ 19,596	
16	Net of Regulatory Fees		$ 2,640,356	
17	Less: State Income Tax @ 6.99%	6.99% 7/	$ 184,561	
18	Income Before Federal Taxes		$ 2,455,795	
19	Federal Income Tax @ 21.0%	21.00% 7/	515,717	
20	Net Income (Surplus)/Deficiency		$ 1,940,078	

Note:
1/ Exhibit LKM-2, Page 1.
2/ Exhibit LKM-5.
3/ Exhibit LKM-1, Page 1.
4/ Company filing Volume 3, Water Operations, page 68.
5/ Company filing Volume 3, Water Operations, page 124.
6/ Company filing Volume 3, Water Operations, page 70.
7/ Company filing Volume 3, Water Operations, page 72.

Pennsylvania-American Water Company
Wastewater SSS Operations
Summary of Rate Base
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount per Company Filing	OCA Adjustments	Amount After OCA Adjustments
1	Utility Plant			
2	Non-Depreciable Plant	$ 16,212,406		$ 16,212,406
3	Depreciable Plant	1,062,716,141		1,062,716,141
4	Total Utility Plant	$ 1,078,928,547	$ -	$ 1,078,928,547
5				
6	Utility Plant Deductions			
7	Contributions in Aid of Construction	52,292,101		52,292,101
8	Customer Advances for Construction	1,543,112		1,543,112
9	Excluded Property	-		-
10	Total Utility Plant Deductions	$ 53,835,213	$ -	$ 53,835,213
11				
12	Net Plant	$ 1,025,093,334	-	$ 1,025,093,334
13				
14	Accumulated Depreciation	293,111,426.00		293,111,426
15	Depreciated Utility Plant in Service	$ 731,981,908	$ -	$ 731,981,908
16	Additions to Net Plant			
17	Materials and Supplies	383,143		383,143
18	Cash Working Capital - Expenses	2,268,679		2,268,679
19	Accrued and Prepaid Taxes	926,154		926,154
20	Acquistion and Adjustmnets	4,644,045	$ (961,320)	3,682,725
21	Other Additions	-		-
22	Total Additions	$ 8,222,021	$ (961,320)	$ 7,260,701
23	Deductions to Net Plant			
24	Cash Working Capital - Int and Div	1,783,056		1,783,056
25	Unamortized ITC (3%)	-		-
26	Extension Deposits in Suspense	-		-
27	Citizens Acquisition of CIAC & CAC, per Settlement	-		-
28	TJAC - Stub Period	-		-
29	Other Deductions	-		-
30	Deferred Taxes	77,227,974	-	77,227,974
31	Total Deductions	$ 79,011,030	$ -	$ 79,011,030
32				
33	Rate Base	$ 661,192,899	$ (961,320)	$ 660,231,579

Source: Company Exhibit 3-A, Wastewater SSS General Operations, Page 94.

Pennsylvania-American Water Company
Wastewater SSS Operations
Summary of Rate Base Adjustments
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Source	Amount
1	Rate Base per Company Filing		$ 661,192,899
2			
3	OCA Adjustments:		
4	Remover Sewer Acquisition Adjusatment		(961,320)
5			
6			
7	Total Ratemaking Adjustments		$ (961,320)
8			
9	Adjusted Rate Base per OCA		$ 660,231,579

Pennsylvania-American Water Company
Wastewater SSS Operations
Summary of Adjustments to Operating Income
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Operating Revenues	Operation and Maintenance	Depreciation	Amortizations	Taxes Other Than Income	State Income Tax	Federal Income Tax	Operating Income
1	Amount per Company	$ 108,561,975	$ 29,374,837	$ 28,338,641	$ 255,169	$ 2,496,491	$ 3,134,563	$ 8,176,053	$ 36,786,221
2									
3	OCA Adjustments:								
4	Salaries and Wages	-	($185,286)	-	-	($14,174)	13,942	38,959	$ 146,559
5	Annual Performance Pay	-	($254,980)	-	-	($19,544)	19,189	53,620	201,715
6	Group Insurance	-	(47,250)	-	-	-	3,303	9,229	34,719
7	Transportation	-	(20,055)	-	-	-	1,402	3,917	14,736
8	Acqusition Amortization	-	-	-	(173,221)	-	12,108	33,834	127,279
9		-	-	(5,801,678)	-	-	405,537	1,133,190	4,262,951
10		-	-	-	-	-	-	-	-
11	Interest Synchronization	-	-	-	-	-	1,317	3,680	(4,997)
12									
13	Total OCA Adjustments	$ -	$ (507,572)	$ (5,801,678)	$ (173,221)	$ (33,719)	$ 456,799	$ 1,276,429	$ 4,782,962
14									
15	Total Adjusted Income Before Income T	$ 108,561,975	$ 28,867,265	$ 22,536,963	$ 81,948	$ 2,462,772	$ 8,632,852	$ 4,410,992	$ 41,569,183

Pennsylvania-American Water Company
Wastewater SSS Operations
Adjustment to Salaries and Wages Expense
For the Fully Projected Future Test Year Ending June 30, 2027

	2027	Budgeted Number of Employees [1/]	Average Salary And Wages per Employee	Number of Employees Adjusted for Vacancy	Adjusted FPFTY Salaries & Wages	Adjustment to Salaries & Wages	Budgeted Positions Filled Rate
	(a)	(b)	(c)=a/b	(d)=b X f	(e)=c X d	(f)=e-a	(f)
Water Operations							
Non-Collective Bargaining Unit Salary	$34,519,930						
Collective Bargaining Unit	52,644,229						
Non-Collective Bargaining Unit Hourly	18,426,280						
Total	$105,590,439	1,068	$98,867.45	1,049	$103,689,811	($1,900,628)	98.2%
Payroll Tax Effect (@7.65%)						($145,398)	
Wastewater SSS General Operations							
Non-Collective Bargaining Unit Salary	$1,494,355						
Collective Bargaining Unit	1,503,855						
Non-Collective Bargaining Unit Hourly	3,864,243						
Total	$6,862,453	79	$86,866.49	77	$6,677,167	($185,286)	97.3%
Payroll Tax Effect (@7.65%)						($14,174)	
BASA WW Operations							
Non-Collective Bargaining Unit Salary	$471,557						
Collective Bargaining Unit	2,230,662						
Non-Collective Bargaining Unit Hourly	63,058						
Total	$2,765,276	29	$95,354.36	29	$2,754,215	($11,061)	99.6%
Payroll Tax Effect (@7.65%)						($846)	
Wastewater CSS Operations							
Non-Collective Bargaining Unit Salary	$1,112,821						
Collective Bargaining Unit	7,611,368						
Non-Collective Bargaining Unit Hourly	108,323						
Total	$8,832,512	99	$89,443.16	98	$8,797,182	($35,330)	99.6%
Payroll Tax Effect (@7.65%)						($2,703)	

Notes
[1/] I&E RE-018-D_Attachment 1

Pennsylvania-American Water Company
Wastewater SSS Operations
Adjustment to Annual Performance Pay
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount [1/]	Earnings-Related Percentage [2/]	Adjustment to Annual Performance Pay
		(a)	(b)	(c)
1	**Water Operations**			
2	Non-Collective Bargaining Unit Salary	$6,213,845		
3	Collective Bargaining Unit	1,706,222		
4	Non-Collective Bargaining Unit Hourly	1,188,694		
5	Total	$9,108,761	50%	($4,554,381)
6	Payroll Tax Effect (@7.65%)			($349,093)
7	**Wastewater SSS General Operations**			
8	Non-Collective Bargaining Unit Salary	$195,340		
9	Collective Bargaining Unit	52,940		
10	Non-Collective Bargaining Unit Hourly	261,680		
11	Total	$509,960	50%	($254,980)
12	Payroll Tax Effect (@7.65%)			($19,544)
13	**BASA WW Operations**			
14	Non-Collective Bargaining Unit Salary	$61,553		
15	Collective Bargaining Unit	84,046		
16	Non-Collective Bargaining Unit Hourly	4,414		
17	Total	$150,013	50%	($75,007)
18	Payroll Tax Effect (@7.65%)			($5,749)
19	**Wastewater CSS Operations**			
20	Non-Collective Bargaining Unit Salary	$141,082		
21	Collective Bargaining Unit	253,139		
22	Non-Collective Bargaining Unit Hourly	12,994		
23	Total	$407,215	50%	($203,608)
	Payroll Tax Effect (@7.65%)			($15,607)

Notes
[1/] EXHIBIT NO. 3-B, Page 62.
[2/] FR III.22

Pennsylvania-American Water Company
Wastewater SSS Operations
Adjustment to Group Insurance Expense
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount
	Water Operations	
1	PAWC Pro forma Adjustment to Group Inusrance Expense	$ 441,433 [1/]
2		
3	Adjustment to Insurance Escalation	$(441,433)
4		
5	Waterwater SS Operations	
6	PAWC Pro forma Adjustment to Group Inusrance Expense	$ 47,250 [2/]
7		
8	Adjustment to Insurance Escalation	$ (47,250)
9		
10	BASA WW Operations	
11	PAWC Pro forma Adjustment to Group Inusrance Expense	$ 17,996 [3/]
12		
13	Adjustment to Remove Insurance Escalation	$ (17,996)
14		
15	Wastewater CSS Operations Operations	
16	PAWC Pro forma Adjustment to Group Inusrance Expense	$ 56,590 [4/]
17		
18	Adjustment to Remove Insurance Escalation	$ (56,590)

Notes:
[1/] PAWC Exhibit No. 3A, Page 49.
[2/] PAWC Exhibit No. 3A, Page 111.
[3/] PAWC Exhibit No. 3A, Page 159.
[4/] PAWC Exhibit No. 3A, Page 208.

Docket No. R-2025-3057983 (Water)
& R-2025-3058051 (Wastewater)
Exhibit LKM -7WSS

Pennsylvania-American Water Company
Wastewater SSS Operations
Adjustment toTransportation Expense
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount
1	**Water Operations**	
2	OCA FPFTY Transportation Expenses	$2,917,533
3	PAWC FPFTY Transportation Expenses	3,321,224
4	Adjustment to Transportation Expenses	(403,691)
5		
6		
7	**Wastewater SSS General Operations**	
8	OCA FPFTY Transportation Expenses	$148,752
9	PAWC FPFTY Transportation Expenses	168,807
10	Adjustment to Transportation Expenses	(20,055)
11		
12		
13	**BASA WW Operations**	
14	OCA FPFTY Transportation Expenses	$54,333
15	PAWC FPFTY Transportation Expenses	61,692
16	Adjustment to Transportation Expenses	(7,359)
17		
18		
19	**Wastewater CSS Operations**	
20	OCA FPFTY Transportation Expenses	$389,061
21	PAWC FPFTY Transportation Expenses	442,804
22	Adjustment to Transportation Expenses	12,994

Pennsylvania-American Water Company
Wastewater SSS Operations
Adjustment to Acquisition and Transaction Costs
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Rate Base Amount	Annual Amortization
1	Water Acquisition Adjustments		
2	Farmington Township (Water)	$ 123,028	$ 13,544
3	Audubon Water	2,942,792	323,977
4	Manwalamink Water	1,051,330	115,743
5		$ 4,117,150	$ 453,264
6	Sewer Acquisition Adjustments		
7	Farmington Township (Water)	$ 961,320	$ 105,833
8			
9	Transaction Costs		
10	Manwalamink Water Transactions Costs - Initial Nextera Bid		$ 1,374
11	Towamencin Township		66,014
			$ 67,388

Pennsylvania-American Water Company
Wastewater SSS Operations
Interest Synchronization Adjustment
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount	
1	Company Rate Base	$ 660,231,579	1/
2	Weighted Cost of Debt	1.96%	2/
3	Adjusted Interest Deduction	$ 12,940,539	
4	Interest Deduction Per Company	12,959,381	3/
5	Adjustment to Synchronize Interest Expense	$ (18,842)	
6	Effective State Income Tax Rate	6.99%	
7	Adjustment to State Income Taxes	$ 1,317	
8	Federal Income Tax Base	$ (17,525)	
9	Federal Income Tax Rate	21.00%	
10	Adjustment to Federal Income Taxes	$ 3,680	

Notes:

1/ Exhibit LKM-2, Page 1.

2/ See Exhibit LKM-

3/ PAWC Exhibit No.3-A, Page 134.

Docket No. R-2025-3057983 (Water)
& R-2025-3058051 (Wastewater)
Exhibit LKM -10WSS

Pennsylvania-American Water Company
Wastewater SSS Operations
Calculation of Rate of Return
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Capitalization Ratio	Cost Rate	Weighted Cost
1	Long Term Debt	41.60%	4.71%	1.96%
2	Long Term Debt - WW Specific	6.88%	2.20%	0.15%
3	Total Debt	48.48%		
4	Prefered Stock	0.00%	9.71%	0.00%
5	Common Equity	51.52%	8.70%	4.48%
6	Total	100.00%		6.59%

Source:
Per OCA witness Garrett.

Pennsylvania-American Water Company
BASA Wastewater Operations
Cost of Service
For the Future Test Year Ended June 30, 2027

Line No.	Description	Company Amounts at Present Rates [1/]	OCA Adjustments	Amounts After OCA Adjustments	Pro Forma Change in Revenues	Amounts After Change in Revenues
1	Total Operating Revenues	$ 12,748,475	$ -	$ 12,748,475	$ 20,706,700	$ 33,455,175
2						
3	Operating Expenses					
4	Operation and Maintenance	7,536,236		7,536,236	388,087	7,924,323
5	Depreciation	11,360,328	(3,867,209)	7,493,119		7,493,119
6	Amortizations	129,105	(3,867,209)	(3,738,104)	-	(3,738,104)
7	Total Operating Expenses	$ 19,025,669	$ (7,734,418)	$ 11,291,251	$ 388,087	$ 11,679,338
8						
9						
10	Operating Income Before Income Taxes	$ (6,277,194)	$ 7,734,418	$ 1,457,224	$ 20,318,613	$ 21,775,837
11						
12	Taxes & Assessments					
13	Taxes Other Than Income	$ 687,313		$ 687,313	$ 259,278	$ 946,591
14	Federal Income Tax	(357,233)		(357,233)	3,970,617	3,613,384
15	State Income Tax	(116,049)		(116,049)	1,420,974	1,304,925
16	Deferred Income Taxes			-	-	-
17	Net Income	$ (6,491,225)	$ 7,734,418	$ 1,243,193	$ 14,667,744	$ 15,910,937
###	Rate Base	$ 245,527,676		$ 245,527,676		$ 245,527,676
###						
###	Rate of Return	-2.64%		0.51%		6.48%
###						

Source: Company Exhibit 3-A, BASA WW Operations, Page 135.

Pennsylvania-American Water Company
BASA Wastewater Operations
Summary of Revenue Increase at OCA Rate of Return
For the Twelve Months Ended June 30, 2027

Line No.	Description		Amount	Source
1	Adjusted Rate Base		$ 245,527,676	1/
2	Required Rate of Return		6.59%	2/
3				
4	Net Operating Income Required		16,180,274	
5	Net Operating Income at Present Rates		1,243,193	3/
6				
7	Income Deficiency/(Surplus)		14,937,081	
8	Revenue Multiplier		1.386261	
9				
10	Required Change in Company Revenue		$ 20,706,700	
11				
12	Proposed Revenue Change		$ 20,706,700	
#REF!	Less: Uncollectibles	1.097% 5/	$ 227,152	
#REF!	Net of Uncollectibles		$ 20,479,548	
#REF!	Less: Regulatory Fees	0.7367% 6/	$ 150,876	
#REF!	Net of Regulatory Fees		$ 20,328,672	
#REF!	Less: State Income Tax @ 6.99%	6.99% 7/	$ 1,420,974	
#REF!	Income Before Federal Taxes		$ 18,907,698	
#REF!	Federal Income Tax @ 21.0%	21.00% 7/	3,970,617	
#REF!				
#REF!				
#REF!	Net Income (Surplus)/Deficiency		$ 14,937,081	

Note:
1/ Exhibit LKM-2, Page 1.
2/ Exhibit LKM-5.
3/ Exhibit LKM-1, Page 1.
4/ Company filing Volume 3, Water Operations, page 68.
5/ Company filing Volume 3, Water Operations, page 124.
6/ Company filing Volume 3, Water Operations, page 70.
7/ Company filing Volume 3, Water Operations, page 72.

Pennsylvania-American Water Company
BASA Wastewater Operations
Summary of Rate Base
For the Future Test Year Ended June 30, 2027

Line No.	Description	Amount per Company Filing	OCA Adjustments	Amount After OCA Adjustments
1	Utility Plant			
2	Non-Depreciable Plant	$ 13,283,700		$ 13,283,700
3	Depreciable Plant	258,932,616		258,932,616
4	Total Utility Plant	$ 272,216,316	$ -	$ 272,216,316
5				
6	Utility Plant Deductions			
7	Contributions in Aid of Construction	-		-
8	Customer Advances for Construction	-		-
9	Excluded Property	-		-
10	Total Utility Plant Deductions	$ -	$ -	$ -
11				
12	Net Plant	$ 272,216,316	-	$ 272,216,316
13				
	Accumulated Depreciation	24,339,419.00		24,339,419
	Depreciated Utility Plant in Service	$ 247,876,897	$ -	$ 247,876,897
14	Additions to Net Plant			
15	Materials and Supplies	105,315		105,315
16	Cash Working Capital - Expenses	1,061,398		1,061,398
17	Accrued and Prepaid Taxes	340,500		340,500
18	Acquistion and Adjustmnets	1,172,699		1,172,699
19	Other Additions	-		-
20	Total Additions	$ 2,679,912	$ -	$ 2,679,912
21				
22	Deductions to Net Plant			
23	Cash Working Capital - Int and Div	662,104		662,104
24	Unamortized ITC (3%)	-		-
25	Extension Deposits in Suspense	-		-
26	Citizens Acquisition of CIAC & CAC, per Settlement	-		-
27	TJAC - Stub Period	-		-
28	Other Deductions	-		-
29	Deferred Taxes	4,367,029	-	4,367,029
30	Total Deductions	$ 5,029,133	$ -	$ 5,029,133
31				
32	Rate Base	$ 245,527,676	$ -	$ 245,527,676

Source: Company Exhibit 3-A, BASA WW Operations, Page 145.

Pennsylvania-Amercian Water Company
BASA Wastewater Operations
Summary of Rate Base Adjustments
For the Future Test Year Ended June 30, 2027

Line No.	Description	Source	Amount
1	Rate Base per Company Filing		$ 245,527,676
2			
3	OCA Adjustments:		
4			
5			
6			
7			
8	Total Ratemaking Adjustments		$ -
9			
10	Adjusted Rate Base per OCA		$ 245,527,676

Pennsylvania-American Water Company
BASA Wastewater Operations
Summary of Adjustments to Operating Income
For the Future Test Year Ended June 30, 2027

Line No.	Description	Operating Revenues	Operation and Maintenance	Depreciation	Amortizations	Taxes Other Than Income	State Income Tax	Federal Income Tax	Operating Income
1	Amount per Company	$ 12,748,475	$ 7,536,236	$ 11,360,328	$ 129,105	$ 687,313	$ (116,049)	$ (357,233)	$ (6,491,225)
2									
3	OCA Adjustments:								
4	Salaries and Wages	-	($11,061)	-	-	($846)	832	2,326	$ 8,749
5	Annual Performance Pay	-	($75,007)	-	-	($5,749)	5,645	15,773	59,338
6	Group Insurance	-	(17,996)	-	-	-	1,258	3,515	13,223
7	Transportation Expense	-	(7,359)	-	-	-	514	1,437	5,407
8	Change in Depreciation Rates	-	-	(3,867,209)	-	-	-	-	3,867,209
9		-	-	-	-	-	-	-	-
10	Interest Synchronization	-	-	-	-	-	-	-	-
11									
12	Total OCA Adjustments	$ -	($111,423)	$ (3,867,209)	$ -	$ (6,595)	$ 8,249	$ 23,051	$ 3,953,926
13									
14	Total Adjusted Income Before Income	$ 12,748,475	$ 7,424,813	$ 7,493,119	$ 129,105	$ 680,718	$ (107,800)	$ (334,182)	$ (2,537,299)

Pennsylvania-American Water Company
BASA WW Operations
Adjustment to Salaries and Wages Expense
For the Fully Projected Future Test Year Ending June 30, 2027

	2027	Budgeted Number of Employees [1/]	Average Salary And Wages per Employee	Number of Employees Adjusted for Vacancy	Adjusted FPFTY Salaries & Wages	Adjustment to Salaries & Wages	Budgeted Positions Filled Rate
	(a)	(b)	(c)=a/b	(d)=b X f	(e)=c X d	(f)=e-a	(f)
Water Operations							
Non-Collective Bargaining Unit Salary	$34,519,930						
Collective Bargaining Unit	52,644,229						
Non-Collective Bargaining Unit Hourly	18,426,280						
Total	$105,590,439	1,068	$98,867.45	1,049	$103,689,811	($1,900,628)	98.2%
Payroll Tax Effect (@7.65%)						($145,398)	
Wastewater SSS General Operations							
Non-Collective Bargaining Unit Salary	$1,494,355						
Collective Bargaining Unit	1,503,855						
Non-Collective Bargaining Unit Hourly	3,864,243						
Total	$6,862,453	79	$86,866.49	77	$6,677,167	($185,286)	97.3%
Payroll Tax Effect (@7.65%)						($14,174)	
BASA WW Operations							
Non-Collective Bargaining Unit Salary	$471,557						
Collective Bargaining Unit	2,230,662						
Non-Collective Bargaining Unit Hourly	63,058						
Total	$2,765,276	29	$95,354.36	29	$2,754,215	($11,061)	99.6%
Payroll Tax Effect (@7.65%)						($846)	
Wastewater CSS Operations							
Non-Collective Bargaining Unit Salary	$1,112,821						
Collective Bargaining Unit	7,611,368						
Non-Collective Bargaining Unit Hourly	108,323						
Total	$8,832,512	99	$89,443.16	98	$8,797,182	($35,330)	99.6%
Payroll Tax Effect (@7.65%)						($2,703)	

Notes
[1/] I&E RE-018-D_Attachment 1

Pennsylvania-American Water Company
BASA WW Operations
Adjustment to Annual Performance Pay
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount [1/]	Earnings-Related Percentage [2/]	Adjustment to Annual Performance Pay
		(a)	(b)	(c)
1	**Water Operations**			
2	Non-Collective Bargaining Unit Salary	$6,213,845		
3	Collective Bargaining Unit	1,706,222		
4	Non-Collective Bargaining Unit Hourly	1,188,694		
5	Total	$9,108,761	50%	($4,554,381)
6	Payroll Tax Effect (@7.65%)			($349,093)
7	**Wastewater SSS General Operations**			
8	Non-Collective Bargaining Unit Salary	$195,340		
9	Collective Bargaining Unit	52,940		
10	Non-Collective Bargaining Unit Hourly	261,680		
11	Total	$509,960	50%	($254,980)
12	Payroll Tax Effect (@7.65%)			($19,544)
13	**BASA WW Operations**			
14	Non-Collective Bargaining Unit Salary	$61,553		
15	Collective Bargaining Unit	84,046		
16	Non-Collective Bargaining Unit Hourly	4,414		
17	Total	$150,013	50%	($75,007)
18	Payroll Tax Effect (@7.65%)			($5,749)
19	**Wastewater CSS Operations**			
20	Non-Collective Bargaining Unit Salary	$141,082		
21	Collective Bargaining Unit	253,139		
22	Non-Collective Bargaining Unit Hourly	12,994		
23	Total	$407,215	50%	($203,608)
	Payroll Tax Effect (@7.65%)			($15,607)

Notes
[1/] EXHIBIT NO. 3-B, Page 62.
[2/] FR III.22

Docket No. R-2025-3057983 (Water)
& R-2025-3058051 (Wastewater)
Exhibit LKM -6BASA

Pennsylvania-American Water Company
BASA WW Operations
Adjustment to Group Insurance Expense
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount
1	PAWC Proforma Adjustment to Group Inusrance Expense	$ 17,996 1/
2		
3	Adjustment to Remove Insurance Escalation	$ (17,996)

Notes:
1/ PAWC Exhibit No. 3A, Page 111.

Docket No. R-2025-3057983 (Water)
& R-2025-3058051 (Wastewater)
Exhibit LKM -7BASA

Pennsylvania-American Water Company
BASA Wastewater Operations
Adjustment toTransportation Expense
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount
1	**Water Operations**	
2	OCA FPFTY Transportation Expenses	$2,917,533
3	PAWC FPFTY Transportation Expenses	3,321,224
4	Adjustment to Transportation Expenses	(403,691)
5		
6		
7	**Wastewater SSS General Operations**	
8	OCA FPFTY Transportation Expenses	$148,752
9	PAWC FPFTY Transportation Expenses	168,807
10	Adjustment to Transportation Expenses	(20,055)
11		
12		
13	**BASA WW Operations**	
14	OCA FPFTY Transportation Expenses	$54,333
15	PAWC FPFTY Transportation Expenses	61,692
16	Adjustment to Transportation Expenses	(7,359)
17		
18		
19	**Wastewater CSS Operations**	
20	OCA FPFTY Transportation Expenses	$389,061
21	PAWC FPFTY Transportation Expenses	442,804
22	Adjustment to Transportation Expenses	(53,743)

Pennsylvania-American Water Company
BASA Wastewater Operations
Interest Synchronization Adjustment
For the Future Test Year Ended June 30, 2027

Line No.	Description	Amount	
1	Company Rate Base	$ 245,527,676	1/
2	Weighted Cost of Debt	1.96%	
3	Adjusted Interest Deduction	$ 4,812,342	2/
4	Interest Deduction Per Company	4,812,342	2/
5	Adjustment to Synchronize Interest Expense	$ -	
6	Effective State Income Tax Rate	6.99%	
7	Adjustment to State Income Taxes	$ -	
8	Federal Income Tax Base	$ -	
9	Federal Income Tax Rate	21.00%	
10	Adjustment to Federal Income Taxes	$ -	

Notes:
1/ Exhibit LKM-2, Page 1.
2/ PAWC Exhibit No 3-a, page 179

Pennsylvania-American Water Company
BASA Operations
Calculation of Rate of Return
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Capitalization Ratio	Cost Rate	Weighted Cost
1	Long Term Debt	41.60%	4.71%	1.96%
2	Long Term Debt - WW Specific	6.88%	2.20%	0.15%
3	Total Debt	48.48%		
4	Prefered Stock	0.00%	9.71%	0.00%
5	Common Equity	51.52%	8.70%	4.48%
6	Total	100.00%		6.59%

Source:
1/ OCA witness Garrett

Pennsylvania-American Water Company
Wastewater CSS Operations
Cost of Service
For the Future Test Year Ended June 30, 2027

Line No.	Description	Company Amounts at Present Rates [1/]	OCA Adjustments	Amounts After OCA Adjustments	Pro Forma Change in Revenues	Amounts After Change in Revenues
1	Total Operating Revenues	$ 85,758,589	$ -	$ 85,758,589	$ (3,085,512)	$ 82,673,077
2						
3	Operating Expenses					
4	Operation and Maintenance	19,952,953	(699,219)	19,253,734	114,136	19,367,870
5	Depreciation	21,547,795	(2,983,191)	18,564,604	-	18,564,604
6	Amortizations	130,661	-	130,661	-	130,661
7	Total Operating Expenses	$ 41,631,409	$ (3,682,410)	$ 37,948,999	$ 114,136	$ 38,063,135
8						
9						
10	Operating Income Before Income Taxes	$ 44,127,180	$ 3,682,410	$ 47,809,590	$ (3,199,648)	$ 44,609,942
11						
12	Taxes & Assessments					
13	Taxes Other Than Income	$ 2,260,278	$ (18,309)	$ 2,241,969	$ 76,254	$ 2,318,223
14	Federal Income Tax	6,523,450		6,523,450	(591,663)	5,931,787
15	State Income Tax	2,526,024		2,526,024	(211,740)	2,314,284
16	Deferred Income Taxes			-	-	-
17						
18	Net Income	$ 32,817,428	$ 3,700,719	$ 36,518,147	$ (2,472,499)	$ 34,045,648
19						
20	Rate Base	$ 520,293,107		$ 520,293,107		$ 520,293,107
21						
22	Rate of Return	6.31%		7.02%		6.54%
23						

Source: Company Exhibit 3-A, Wastewater CSS General Operations, Page 180.

Pennsylvania-American Water Company
Wastewater CSS Operations
Summary of Revenue Increase at OCA Rate of Return
For the Twelve Months Ended June 30, 2027

Line No.	Description		Amount	Source
1	Adjusted Rate Base		$ 520,293,107	1/
2	Required Rate of Return		6.59%	2/
3				
4	Net Operating Income Required		34,292,368	
5	Net Operating Income at Present Rates		36,518,147	3/
6				
7	Income Deficiency/(Surplus)		(2,225,779)	
8	Revenue Multiplier		1.386261	
9				
10	Required Change in Company Revenue		$ (3,085,512)	
11				
12	Proposed Revenue Change		$ (3,085,512)	
13	Less: Uncollectibles	1.097% 5/	$ (33,848)	
14	Net of Uncollectibles		$ (3,051,664)	
15	Less: Regulatory Fees	0.7367% 6/	$ (22,482)	
16	Net of Regulatory Fees		$ (3,029,182)	
17	Less: State Income Tax @ 6.99%	6.99% 7/	$ (211,740)	
18				
19	Income Before Federal Taxes		$ (2,817,442)	
20	Federal Income Tax @ 21.0%	21.00% 7/	(591,663)	
21	Net Income (Surplus)/Deficiency		$ (2,225,779)	

Note:
1/ Exhibit LKM-2, Page 1.
2/ Exhibit LKM-5.
3/ Exhibit LKM-1, Page 1.
4/ Company filing Volume 3, Water Operations, page 68.
5/ Company filing Volume 3, Water Operations, page 124.
6/ Company filing Volume 3, Water Operations, page 70.
7/ Company filing Volume 3, Water Operations, page 72.

Pennsylvania-American Water Company
Wastewater CSS Operations
Summary of Rate Base
For the Future Test Year Ended June 30, 2027

Line No.	Description	Amount per Company Filing	OCA Adjustments	Amount After OCA Adjustments
1	Utility Plant			
2	Non-Depreciable Plant	$ 5,076,748		$ 5,076,748
3	Depreciable Plant	932,268,962		932,268,962
4	Total Utility Plant	$ 937,345,710	$ -	$ 937,345,710
5				
6	Utility Plant Deductions			
7	Contributions in Aid of Construction	12,319,932		12,319,932
8	Customer Advances for Construction	-		-
9	Excluded Property	-		-
10	Total Utility Plant Deductions	$ 12,319,932	$ -	$ 12,319,932
11				
12	Net Plant	$ 925,025,778	-	$ 925,025,778
13				
	Accumulated Depreciation	338,491,050.00		338,491,050
	Depreciated Utility Plant in Service	$ 586,534,728	$ -	$ 586,534,728
14	Additions to Net Plant			
15	Materials and Supplies	426,365		426,365
16	Cash Working Capital - Expenses	1,503,544		1,503,544
17	Accrued and Prepaid Taxes	726,030		726,030
18	Acquistion and Adjustmnets	3,395,192		3,395,192
19	Other Additions	-		-
20	Total Additions	$ 6,051,131	$ -	$ 6,051,131
21				
22	Deductions to Net Plant			
23	Cash Working Capital - Int and Div	1,403,092		1,403,092
24	Unamortized ITC (3%)	-		-
25	Extension Deposits in Suspense	-		-
26	Citizens Acquisition of CIAC & CAC, per Settlement	-		-
27	TJAC - Stub Period	-		-
28	Other Deductions	-		-
29	Deferred Taxes	70,889,660	-	70,889,660
30	Total Deductions	$ 72,292,752	$ -	$ 72,292,752
31				
32	Rate Base	$ 520,293,107	$ -	$ 520,293,107

Source: Company Exhibit 3-A, Wastewater CSS Operations, Page 192.

Pennsylvania-American Water Company
Wastewater CSS Operations
Summary of Rate Base Adjustments
For the Future Test Year Ended June 30, 2027

Line No.	Description	Source	Amount
1	Rate Base per Company Filing		$ 520,293,107
2			
3	OCA Adjustments:		
4			
5			
6			
7			
8			
9			
10			
11	Total Ratemaking Adjustments		$ -
12			
13	Adjusted Rate Base per OCA		$ 520,293,107

Pennsylvania-American Water Company
Wastewater CSS Operations
Summary of Adjustments to Operating Income
For the Future Test Year Ended June 30, 2027

Line No.	Description	Operating Revenues	Operation and Maintenance	Depreciation	Amortizations	Taxes Other Than Income	State Income Tax	Federal Income Tax	Operating Income
1	Amount per Company	$ 85,758,589	$ 19,952,953	$ 21,547,795	$ 130,661	$ 2,260,278	$ 2,526,024	$ 6,523,450	$ 32,817,428
2									
3	OCA Adjustments:								
4	Salaries and Wages		(35,330)			(2,703)	2,658	7,429	27,946
5	Annual Performance Pay		(203,608)			(15,607)	15,323	42,817	161,074
6	Group Insurance		(56,590)				3,956	11,053	41,581
7	Transportation Expense		(403,691)				28,218	78,849	296,624
8	Change in Depreciation Rates			(2,983,191)			208,525	582,680	2,191,986
9	Interest Synchronization	-	-	-	-	-	-	-	-
10									
11	Total OCA Adjustments	$ -	$ (699,219)	$ (2,983,191)	$ -	$ (18,309)	$ 258,680	$ 722,828	$ 2,719,210
12									
13	Total Adjusted Income	$ 85,758,589	$ 19,253,734	$ 18,564,604	$ 130,661	$ 2,241,969	$ 2,784,704	$ 7,246,278	$ 35,536,638

Pennsylvania-American Water Company
Wastewater CSS Operations
Adjustment to Salaries and Wages Expense
For the Fully Projected Future Test Year Ending June 30, 2027

	2027	Budgeted Number of Employees [1/]	Average Salary And Wages per Employee	Number of Employees Adjusted for Vacancy	Adjusted FPFTY Salaries & Wages	Adjustment to Salaries & Wages	Budgeted Positions Filled Rate
	(a)	(b)	(c)=a/b	(d)=b X f	(e)=c X d	(f)=e-a	(f)
Water Operations							
Non-Collective Bargaining Unit Salary	$34,519,930						
Collective Bargaining Unit	52,644,229						
Non-Collective Bargaining Unit Hourly	18,426,280						
Total	$105,590,439	1,068	$98,867.45	1,049	$103,689,811	($1,900,628)	98.2%
Payroll Tax Effect (@7.65%)						($145,398)	
Wastewater SSS General Operations							
Non-Collective Bargaining Unit Salary	$1,494,355						
Collective Bargaining Unit	1,503,855						
Non-Collective Bargaining Unit Hourly	3,864,243						
Total	$6,862,453	79	$86,866.49	77	$6,677,167	($185,286)	97.3%
Payroll Tax Effect (@7.65%)						($14,174)	
BASA WW Operations							
Non-Collective Bargaining Unit Salary	$471,557						
Collective Bargaining Unit	2,230,662						
Non-Collective Bargaining Unit Hourly	63,058						
Total	$2,765,276	29	$95,354.36	29	$2,754,215	($11,061)	99.6%
Payroll Tax Effect (@7.65%)						($846)	
Wastewater CSS Operations							
Non-Collective Bargaining Unit Salary	$1,112,821						
Collective Bargaining Unit	7,611,368						
Non-Collective Bargaining Unit Hourly	108,323						
Total	$8,832,512	99	$89,443.16	98	$8,797,182	($35,330)	99.6%
Payroll Tax Effect (@7.65%)						($2,703)	

Notes
[1/] I&E RE-018-D_Attachment 1

Pennsylvania-American Water Company
Wastewater CSS Operations
Adjustment to Annual Performance Pay
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount [1/]	Earnings-Related Percentage [2/]	Adjustment to Annual Performance Pay
		(a)	(b)	(c)
1	**Water Operations**			
2	Non-Collective Bargaining Unit Salary	$6,213,845		
3	Collective Bargaining Unit	1,706,222		
4	Non-Collective Bargaining Unit Hourly	1,188,694		
5	Total	$9,108,761	50%	($4,554,381)
6	Payroll Tax Effect (@7.65%)			($349,093)
7	**Wastewater SSS General Operations**			
8	Non-Collective Bargaining Unit Salary	$195,340		
9	Collective Bargaining Unit	52,940		
10	Non-Collective Bargaining Unit Hourly	261,680		
11	Total	$509,960	50%	($254,980)
12	Payroll Tax Effect (@7.65%)			($19,544)
13	**BASA WW Operations**			
14	Non-Collective Bargaining Unit Salary	$61,553		
15	Collective Bargaining Unit	84,046		
16	Non-Collective Bargaining Unit Hourly	4,414		
17	Total	$150,013	50%	($75,007)
18	Payroll Tax Effect (@7.65%)			($5,749)
19	**Wastewater CSS Operations**			
20	Non-Collective Bargaining Unit Salary	$141,082		
21	Collective Bargaining Unit	253,139		
22	Non-Collective Bargaining Unit Hourly	12,994		
23	Total	$407,215	50%	($203,608)
	Payroll Tax Effect (@7.65%)			($15,607)

Notes
[1/] EXHIBIT NO. 3-B, Page 62.
[2/] FR III.22

Pennsylvania-American Water Company
Wastewater CSS Operations
Adjustment to Group Insurance Expense
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount
1	PAWC Proforma Adjustment to Group Inusrance Expense	$ 56,590 1/
2		
3	Adjustment to Remove Insurance Escalation	$ (56,590)

Notes:
1/ PAWC Exhibit No. 3A, Page 208.

Docket No. R-2025-3057983 (Water)
& R-2025-3058051 (Wastewater)
Exhibit LKM -7CSS

Pennsylvania-American Water Company
Wastewater CSS Operations
Adjustment toTransportation Expense
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount
1	**Water Operations**	
2	OCA FPFTY Transportation Expenses	$2,917,533
3	PAWC FPFTY Transportation Expenses	3,321,224
4	Adjustment to Transportation Expenses	(403,691)
5		
6		
7	**Wastewater SSS General Operations**	
8	OCA FPFTY Transportation Expenses	$148,752
9	PAWC FPFTY Transportation Expenses	168,807
10	Adjustment to Transportation Expenses	(20,055)
11		
12		
13	**BASA WW Operations**	
14	OCA FPFTY Transportation Expenses	$54,333
15	PAWC FPFTY Transportation Expenses	61,692
16	Adjustment to Transportation Expenses	(7,359)
17		
18		
19	**Wastewater CSS Operations**	
20	OCA FPFTY Transportation Expenses	$389,061
21	PAWC FPFTY Transportation Expenses	442,804
22	Adjustment to Transportation Expenses	12,994

Pennsylvania-American Water Company
Wastewater CSS Operations
Interest Synchronization Adjustment
For the Future Test Year Ended June 30, 2027

Line No.	Description	Amount	
1	Company Rate Base	$ 520,293,107	1/
2	Weighted Cost of Debt	1.96%	2/
3	Adjusted Interest Deduction	$ 10,197,745	
4	Interest Deduction Per Company	10,197,745	2/
5	Adjustment to Synchronize Interest Expense	$ -	
6	Effective State Income Tax Rate	6.99%	
7	Adjustment to State Income Taxes	$ -	
8	Federal Income Tax Base	$ -	
9	Federal Income Tax Rate	21.00%	
10	Adjustment to Federal Income Taxes	$ -	

Notes:
1/ Exhibit LKM-2, Page 1.

Docket No. R-2025-3057983 (Water)
& R-2025-3058051 (Wastewater)
Exhibit LKM -9CSS
Revised 2/2/2026

Water Operations
Wastewater CSS Operations
Calculation of Rate of Return

Line No.	Description	Capitalization Ratio	Cost Rate	Weighted Cost
1	Long Term Debt	41.59%	4.71%	1.96%
2	Long Term Debt - WW Specific	6.88%	2.20%	0.15%
3	Total Debt	48.47%		
4	Prefered Stock	0.01%	9.71%	0.00%
5	Common Equity	51.52%	8.70%	4.48%
6	Total	100.00%		6.59%

Source:
OCA witness Garrett.

Pennsylvania-American Water Company
Elizabeth Borough WW CSS Operations
Cost of Service
For the Future Test Year Ended June 30, 2027

Line No.	Description	Company Amounts at Present Rates [1/]	OCA Adjustments	Amounts After OCA Adjustments	Pro Forma Change in Revenues	Amounts After Change in Revenues
1	Total Operating Revenues	$ 1,767,267	$ -	$ 1,767,267	$ 2,733,221	$ 4,500,488
2						
3	Operating Expenses					
4	Operation and Maintenance	867,000		867,000	29,983	896,983
5	Depreciation	1,035,785	(292,710)	743,075	-	743,075
6	Amortizations	54,552	-	54,552	-	54,552
7	Total Operating Expenses	$ 1,957,337	$ (292,710)	$ 1,664,627	$ 29,983	$ 1,694,610
8						
9						
10	Operating Income Before Income Taxes	$ (190,070)	$ 292,710	$ 102,640	$ 2,703,238	$ 2,805,878
11						
12	Taxes & Assessments					
13	Taxes Other Than Income	$ 29,882	$ -	$ 29,882	$ 19,915	$ 49,797
14	Federal Income Tax	73,075	57,172	130,247	524,109	654,356
15	State Income Tax	25,137	20,460	45,597	187,564	233,161
16	Deferred Income Taxes			-	-	-
###						
###	Net Income	$ (318,164)	$ 215,077	$ (103,087)	$ 1,971,650	$ 1,868,563
###						
###	Rate Base	$ 28,350,331		$ 28,350,331		$ 28,350,331
###						
###	Rate of Return	-1.12%		-0.36%		6.59%
###						

Source: Company Exhibit 3-A, Elizabeth WW CSS Operations, Page 231.

Pennsylvania-American Water Company
Elizabeth Borough WW CSS Operations
Summary of Revenue Increase at OCA Rate of Return
For the Twelve Months Ended June 30, 2027

Line No.	Description		Amount	Source
1	Adjusted Rate Base		$ 28,350,331	1/
2	Required Rate of Return		6.59%	2/
3				
4	Net Operating Income Required		1,868,562	
5	Net Operating Income at Present Rates		(103,087)	3/
6				
7	Income Deficiency/(Surplus)		1,971,649	
8	Revenue Multiplier		1.386261	
9				
10	Required Change in Company Revenue		$ 2,733,221	
11				
12	Proposed Revenue Change		$ 2,733,221	
#REF!	Less: Uncollectibles	1.097% 5/	$ 29,983	
#REF!	Net of Uncollectibles		$ 2,703,238	
#REF!	Less: Regulatory Fees	0.7367% 6/	$ 19,915	
#REF!	Net of Regulatory Fees		$ 2,683,323	
#REF!	Less: State Income Tax @ 6.99%	6.99% 7/	$ 187,564	
#REF!				
#REF!	Income Before Federal Taxes		$ 2,495,759	
#REF!	Federal Income Tax @ 21.0%	21.00% 7/	524,109	
#REF!				
#REF!				
#REF!	Net Income (Surplus)/Deficiency		$ 1,971,650	

Pennsylvania-American Water Company
Elizabeth Borough WW CSS Operations
Summary of Rate Base
For the Future Test Year Ended June 30, 2027

Line No.	Description	Amount per Company Filing	OCA Adjustments	Amount After OCA Adjustments
1	Utility Plant			
2	Non-Depreciable Plant	$ 633,483		$ 633,483
3	Depreciable Plant	28,013,222		28,013,222
4	Total Utility Plant	$ 28,646,705	$ -	$ 28,646,705
5				
6	Utility Plant Deductions			
7	Contributions in Aid of Construction	-		-
8	Customer Advances for Construction	-		-
9	Excluded Property	-		-
10	Total Utility Plant Deductions	$ -	$ -	$ -
11				
12	Net Plant	$ 28,646,705	-	$ 28,646,705
13				
	Accumulated Depreciation	1,172,492.00		1,172,492
	Depreciated Utility Plant in Service	$ 27,474,213	$ -	$ 27,474,213
14	Additions to Net Plant			
15	Materials and Supplies	6,650		6,650
16	Cash Working Capital - Expenses	51,881		51,881
17	Accrued and Prepaid Taxes	22,903		22,903
18	Acquistion and Adjustmnets	495,510		495,510
19	Other Additions	-		-
20	Total Additions	$ 576,944	$ -	$ 576,944
21				
22	Deductions to Net Plant			
23	Cash Working Capital - Int and Div	76,459		76,459
24	Unamortized ITC (3%)	-		-
25	Extension Deposits in Suspense	-		-
26	Citizens Acquisition of CIAC & CAC, per Settlement	-		-
27	TJAC - Stub Period	-		-
28	Other Deductions	-		-
29	Deferred Taxes	(375,633)	-	(375,633)
30	Total Deductions	$ (299,174)	$ -	$ (299,174)
31				
32	Rate Base	$ 28,350,331	$ -	$ 28,350,331

Source: Company Exhibit 3-A, Elizabeth WW CSS Operations, Page 237.

Pennsylvania-American Water Company
Elizabeth Borough WW CSS Operations
Summary of Rate Base Adjustments
For the Future Test Year Ended June 30, 2027

Line No.	Description	Source	Amount
1	Rate Base per Company Filing		$ 28,350,331
2			
3	OCA Adjustments:		
4			
5			
6			
7			
8			
9			
10			
11	Total Ratemaking Adjustments		$ -
12			
13	Adjusted Rate Base per OCA		$ 28,350,331

Pennsylvania-American Water Company
Elizabeth Borough WW CSS Operations
Summary of Adjustments to Operating Income
For the Future Test Year Ended June 30, 2027

Line No.	Description	Operating Revenues	Operation and Maintenance	Depreciation	Amortizations	Taxes Other Than Income	State Income Tax	Federal Income Tax	Operating Income
1	Amount per Company	$ 1,767,267	$ 867,000	$ 1,035,785	$ 54,552	$ 29,882	$ 25,137	$ 73,075	$ (318,164)
2									
3	OCA Adjustments:								-
4									-
5	Change in Depreciation Rates			(292,710)			20,460	57,172	215,077
6									-
7	Interest Synchronization	-	-	-	-	-	-	-	-
8									
9	Total OCA Adjustments	$ -	$ -	$ (292,710)	$ -	$ -	$ 20,460	$ 57,172	$ 215,077
10									
11	Total Adjusted Income Before Income Taxes	$ 1,767,267	$ 867,000	$ 743,075	$ 54,552	$ 29,882	$ 45,597	$ 130,247	$ (103,087)

Pennsylvania-American Water Company
Elizabeth Borough WW CSS Operations
Interest Synchronization Adjustment
For the Future Test Year Ended June 30, 2027

Line No.	Description	Amount	
1	Company Rate Base	$ 28,350,331	1/
2	Weighted Cost of Debt	1.96%	2/
3	Adjusted Interest Deduction	$ 555,666	
4	Interest Deduction Per Company	555,666	2/
5	Adjustment to Synchronize Interest Expense	$ -	
6	Effective State Income Tax Rate	6.99%	
7	Adjustment to State Income Taxes	$ -	
8	Federal Income Tax Base	$ -	
9	Federal Income Tax Rate	21.00%	
10	Adjustment to Federal Income Taxes	$ -	

Notes:
1/ Exhibit LKM-2, Page 1.

Docket No. R-2025-3057983 (Water)
& R-2025-3058051 (Wastewater)
Exhibit LKM -5E
Revised 2/2/2026

Pennsylvania-American Water Company
Elizabeth Borough WW CSS Operations
Calculation of Rate of Return
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Capitalization Ratio	Cost Rate	Weighted Cost
1	Long Term Debt	41.59%	4.71%	1.96%
2	Long Term Debt - WW Specific	6.88%	2.20%	0.15%
3	Total Debt	48.47%		
4	Prefered Stock	0.01%	9.71%	0.00%
5	Common Equity	51.52%	8.70%	4.48%
6	Total	100.00%		6.59%

Source:
1/ Testimony of Ms. Buckley, Exhibit 13-A, Schedule 17.

OCA Statement 1
Corrected

BEFORE THE

PENNSYLVANIA PUBLIC UTILITY COMMISSION

PENNSYLVANIA PUBLIC UTILITY COMMISSION	:	
	:	DOCKET NOS.
V.	:	R-2025-3057983
	:	R-2025-3058051
PENNSYLVANIA AMERICAN WATER COMPANY	:	

DIRECT TESTIMONY
OF
LAFAYETTE K. MORGAN, JR.

Appendix A

LAFAYETTE K. MORGAN, JR.

Mr. Morgan is an independent regulatory consultant focusing in the area of the analysis of the operations of public utilities with particular emphasis on rate regulation. He has reviewed and analyzed utility rate filings, focusing primarily on revenue requirements determination, accounting and regulatory policy and cost recovery mechanisms. This work has included natural gas, water, electric, and telephone utilities.

Education and Qualifications

B.B.A. (Accounting) – North Carolina Central University, 1983

M.B.A. (Finance) – The George Washington University, 1993

C.P.A. – Licensed in the State of North Carolina (Inactive status)

Previous Employment

1993-2010	Senior Regulatory Analyst Exeter Associates, Inc. Columbia, MD
1990-1993	Senior Financial Analyst Potomac Electric Power Company Washington, D.C.
1984-1990	Staff Accountant North Carolina Utilities Commission – Public Staff Raleigh, NC

Professional Experience

As a Staff Accountant with the North Carolina Utilities Commission – Public Staff, Mr. Morgan was responsible for analyzing testimony, exhibits, and other data presented by parties before the Commission. In addition, he performed examinations of the books and records of utilities involved in rate proceedings and summarized the results into testimony and exhibits for presentation before the Commission. Mr. Morgan also participated in several policy proceedings and audits involving regulated utilities.

As a Senior Financial Analyst with Potomac Electric Power Company, Mr. Morgan was a lead analyst and was involved in the preparation of the cost of service, rate base, and ratemaking adjustments supporting the Company's request for revenue increases in its retail jurisdictions.

As a Senior Regulatory Analyst with Exeter Associates, Inc., Mr. Morgan has been involved in the analysis of the operations of public utilities with particular emphasis on rate regulation. He has reviewed and analyzed utility rate filings, focusing primarily on revenue requirements determination, accounting and regulatory policy and cost recovery mechanisms. This work included natural gas, water, electric, and telephone utilities.

Kings Grant Water Company (North Carolina Utilities Commission, Docket No. W-250, Sub 5), 1984. Presented testimony on rate base, cost of service, and revenue and expense adjustments on behalf of the North Carolina Utilities Commission – Public Staff.

Northwood Water Company (North Carolina Utilities Commission, Docket No. W-690, Sub 1), 1985. Presented testimony on rate base, cost of service, and revenue and expense adjustments on behalf of the North Carolina Utilities Commission – Public Staff.

Emerald Village Water System (North Carolina Utilities Commission, Docket No. W-184, Sub 3), 1985. Presented testimony on rate base, cost of service, and revenue and expense adjustments on behalf of the North Carolina Utilities Commission – Public Staff.

General Telephone Company of the South (North Carolina Utilities Commission, Docket No. P-19, Sub 207), July 1986. Presented testimony on the level of cash working capital allowance on behalf of the North Carolina Utilities Commission – Public Staff.

Heins Telephone Company (North Carolina Utilities Commission, Docket No. P-26, Sub 93), November 1986. Presented testimony on rate base, cost of service, and revenue and expense adjustments on behalf of the North Carolina Utilities Commission – Public Staff.

Carolina Power and Light Company (North Carolina Utilities Commission, Docket No. E-2, Sub 537), March 1988. Presented testimony on rate base, cost of service, and revenue and expense adjustments on behalf of the North Carolina Utilities Commission – Public Staff.

Public Service Company of North Carolina, Inc. (North Carolina Utilities Commission, Docket No. G-5, Sub 246), August 1989. Presented testimony on rate base, cash working capital allowance, cost of service, and revenue and expense adjustments on behalf of the North Carolina Utilities Commission – Public Staff.

Conestoga Telephone and Telegraph Company (Pennsylvania Public Utility Commission, Docket No. I-00920015), September 1993. Presented testimony on cost of service on behalf of the Pennsylvania Office of Consumer Advocate.

Louisiana Power and Light Company (Louisiana Public Service Commission, Docket No. U-20925), February 1995. Presented testimony on rate base and working capital issues on behalf of the Louisiana Public Service Commission Staff.

South Central Bell Telephone Company – Louisiana (Louisiana Public Service Commission, Docket No. U-17949, Subdocket E), June 1995. Presented testimony on rate base and working capital issues on behalf of the Louisiana Public Service Commission Staff.

Apollo Gas Company (Pennsylvania Public Utility Commission, Docket No. R-00953378), August 1995. Presented testimony on rate base and cost of service issues on behalf of the Pennsylvania Office of Consumer Advocate.

Carnegie Natural Gas Company (Pennsylvania Public Utility Commission, Docket No. R-00953379), August 1995. Presented testimony on rate base and cost of service issues on behalf of the Pennsylvania Office of Consumer Advocate.

Tennessee Gas Pipeline Company (Federal Energy Regulatory Commission, Docket No. RP95-112), September 1995. Presented testimony rate base and cost of service issues on behalf of the Pennsylvania Office of Consumer Advocate.

Virginia-American Water Company (Virginia State Corporation Commission, Case No. PUE-950003), March 1996. Presented testimony on rate base and cost of service issues on behalf of the City of Alexandria.

GTE North, Inc. Interconnection Arbitration (Pennsylvania Public Utility Commission, Docket No. A-310125F0002), September 1996. Presented testimony on the determination of the appropriate resale discount on behalf of the Pennsylvania Office of Consumer Advocate.

United Cities Gas Company (Georgia Public Service Commission, Docket No. 6691-U), October 1996. Presented testimony on rate base and cost of service issues on behalf of the Office of Governor, Consumer Utility Counsel Division.

GTE North, Inc. (Pennsylvania Public Utility Commission, Docket Nos. R-00963666 and R-00963666C001), February 1997. Presented testimony on the determination of the appropriate resale discount on behalf of the Pennsylvania Office of Consumer Advocate.

Consumers Maine Water Company (Maine Public Utilities Commission, Docket No. 96-739), May 1997. Presented testimony on rate base, cost of service, and rate of return issues on behalf of the Maine Office of the Public Advocate.

Pennsylvania-American Water Company (Pennsylvania Public Utility Commission, Docket No. R-00973944), July 1997. Presented testimony on rate base and cost of service issues on behalf of the Pennsylvania Office of Consumer Advocate.

Pennsylvania-American Water Company – Wastewater Operations (Pennsylvania Public Utility Commission, Docket No. R-00973973), July 1997. Presented testimony on rate base, cost of service, depreciation, and rate design issues on behalf of the Pennsylvania Office of Consumer Advocate.

Jackson Purchase Electric Cooperative Corporation (Kentucky Public Service Commission, Case No. 97-224), December 1997. Presented testimony on rate base and cost of service issues on behalf of the Kentucky Office of the Attorney General.

Henderson Union Electric Cooperative Corporation (Kentucky Public Service Commission, Case No. 97-220), January 1998. Presented testimony on the return of patronage capital on behalf of the Kentucky Office of the Attorney General.

Green River Electric Corporation (Kentucky Public Service Commission, Case No. 97-219), January 1998. Presented testimony on the return of patronage capital on behalf of the Kentucky Office of the Attorney General.

Western Kentucky Gas Company (Kentucky Public Service Commission, Case No. 99-070), November 1999. Presented testimony on rate base and cost of service issues on behalf of the Kentucky Office of the Attorney General.

American Broadband, Inc. (Rhode Island Public Utilities Commission, Docket No. 2000-C-3), June 2000. Presented report and testimony on the Company's financing plan on behalf of the Rhode Island Division of Public Utilities and Carriers.

PPL Utilities (Pennsylvania Public Utility Commission, Docket No. R-00005277), October 2000. Presented testimony on rate base and cost of service issues on behalf of the Pennsylvania Office of Consumer Advocate.

T.W. Phillips Oil and Gas Company (Pennsylvania Public Utility Commission, Docket No. R-00005459), October 2000. Presented testimony on rate base and cost of service issues on behalf of the Pennsylvania Office of Consumer Advocate.

Pike County Light & Power Company (Pennsylvania Public Utility Commission, Docket No. P-00011872), May 2001. Presented testimony on rate base and cost of service issues on behalf of the Pennsylvania Office of Consumer Advocate.

Vermont Gas Systems, Inc. (Vermont Public Service Board, Docket No. 6495), June 2001. Presented testimony on rate base and cost of service issues on behalf of the Vermont Public Service Department.

Community Service Telephone Company (Maine Public Utilities Commission, Docket No. 2001-249), July 2001. Presented joint testimony on rate base and cost of service issues on behalf of the Maine Office of the Public Advocate.

West Virginia-American Water Company (Public Service Commission of West Virginia, Docket No. 01-0326-W-42-T), August 2001. Presented testimony on rate base and cost of service issues on behalf of the Consumer Advocate Division.

Philadelphia Suburban Water Company (Pennsylvania Public Utility Commission, Docket No. R-00016750) February 2002. Presented testimony on rate base and cost of service issues on behalf of the Pennsylvania Office of Consumer Advocate.

Illinois-American Water Company (Illinois Commerce Commission, Docket No. 02-0690) January 2003. Presented testimony on cost of service issues on behalf of Citizens Utility Board.

Pennsylvania-American Water Company (Pennsylvania Public Utility Commission, Docket No. R-00027983), February 2003. Presented testimony addressing surcharge mechanism to recover security costs on behalf of the Pennsylvania Office of Consumer Advocate.

FairPoint New England Telephone Companies (Maine Public Utilities Commission, Docket Nos. 2002-747, 2003-34, 2003-35, 2003-36, and 2003-37), June 2003. Presented testimony on rate base and cost of service issues on behalf of the Maine Office of the Public Advocate.

Pennsylvania-American Water Company (Pennsylvania Public Utility Commission, Docket No. R-00038304), August 2003. Presented testimony on rate base and cost of service issues on behalf of the Pennsylvania Office of Consumer Advocate.

PPL Electric Utilities Corporation (Pennsylvania Public Utility Commission, Docket No. R-00049255), June 2004. Presented testimony on rate base and cost of service issues on behalf of the Pennsylvania Office of Consumer Advocate.

Entergy Louisiana, Inc. (Louisiana Public Service Commission, Docket No. U-20925 RRF 2004), August 2004. Presented testimony on rate base and cost of service issues on behalf of the Louisiana Public Service Commission Staff.

Vectren Energy Delivery of Indiana (Indiana Utility Regulatory Commission, Cause No. 42598), September 2004. Presented testimony on O&M expense issues on behalf of the Indiana Office of Utility Consumer Counselor.

National Fuel Gas Distribution Corporation (Pennsylvania Public Utility Commission, Docket No. R-00049656), December 2004. Presented testimony on rate base and cost of service issues on behalf of the Pennsylvania Office of Consumer Advocate.

Block Island Power Company (Rhode Island Public Utilities Commission, Docket No. 3655), April 2005. Presented testimony on cash working capital on behalf of the Rhode Island Division of Public Utilities & Carriers.

Verizon New England, Inc. (Maine Public Utilities Commission, Docket No. 2005-155), September 2005. Presented joint testimony with Thomas S. Catlin on rate base and cost of service issues on behalf of the Maine Office of the Public Advocate.

T.W. Phillips Oil and Gas Company (Pennsylvania Public Utility Commission, Docket No. R-00051178), May 2006. Presented testimony on rate base and cost of service issues on behalf of the Pennsylvania Office of Consumer Advocate.

Duquesne Light Company (Pennsylvania Public Utility Commission, Docket No. R-00061346), July 2006. Presented testimony on rate base and cost of service issues on behalf of the Pennsylvania Office of Consumer Advocate.

National Fuel Gas Distribution Company (Pennsylvania Public Utility Commission, Docket No. R-00061493), September 2006. Presented testimony on rate base and cost of service issues on behalf of the Pennsylvania Office of Consumer Advocate.

Southern Indiana Gas & Electric Co. (Indiana Utility Regulatory Commission, Cause No. 43112), January 2007. Presented testimony on rate base and cost of service issues on behalf of the Indiana Office of Utility Consumer Counsel.

PPL Electric Utilities (Pennsylvania Public Utility Commission, Docket No. R-00072155), July 2007. Presented testimony on rate base and cost of service issues on behalf of the Pennsylvania Office of Consumer Advocate.

Aqua Pennsylvania, Inc. (Pennsylvania Public Utility Commission, Docket No. R-00072711), February 2008. Presented testimony on rate base and cost of service issues on behalf of the Pennsylvania Office of Consumer Advocate.

Equitable Gas Company (Pennsylvania Public Utility Commission, Docket No. R-2008-2029325), October 2008. Presented testimony on rate base and cost of service issues on behalf of the Pennsylvania Office of Consumer Advocate.

The Narragansett Bay Commission (Rhode Island Public Utilities Commission, Docket No. 4026), April 2009. Presented testimony on rate base and cost of service issues on behalf of the Rhode Island Division of Public Utilities and Carriers.

Maryland-American Water Company (Maryland Public Service Commission, Case No. 9187), July 2009. Presented testimony on rate base and cost of service issues on behalf of the Maryland Office of People's Counsel.

Monongahela Power Company & The Potomac Edison Company, both d/b/a Allegheny Power Company (West Virginia Public Service Commission, Case No. 09-1352-E-42T), February 2010. Presented testimony on rate base and cost of service issues on behalf of the West Virginia Consumer Advocate Division.

PPL Electric Utilities (Pennsylvania Public Utility Commission, Docket No. R-2010-2161694), June 2010. Presented testimony on rate base and cost of service issues on behalf of the Pennsylvania Office of Consumer Advocate.

Pawtucket Water Supply Board (Rhode Island Public Utilities Commission, Docket No. 4550), June 2015. Presented testimony on revenue requirements issues on behalf of the Rhode Island Division of Public Utilities and Carriers.

Columbia Gas of Pennsylvania (Pennsylvania Public Utility Commission, Docket No. R-2015-2468056), June 2015. Presented testimony on rate base and cost of service issues on behalf of the Pennsylvania Office of Consumer Advocate.

Indianapolis Power and Light Company (Indiana Utility Regulatory Commission, Cause No. 44576/44602), July 2015. Presented testimony on revenue requirements issues on behalf of the Indiana Office of Utility Consumer Counselor.

Public Service Company of Oklahoma (Corporation Commission of Oklahoma, Cause No. PUD 201500208), October 2015. Presented testimony on revenue requirements and environmental compliance rider issues on behalf of the United States Department of Defense and the Federal Executive Agencies.

Northern Indiana Public Service Company (Indiana Utility Regulatory Commission, Cause No. 44688), January 2016. Presented testimony on the company's electric division operating revenues, operating expenses and income taxes issues on behalf of the Indiana Office of Utility Consumer Counselor.

Philadelphia Water Department (Philadelphia Water, Sewer And Storm Water Rate Board, FY2017-2018 Rate Proceeding), March 2016. Presented testimony on revenue requirements issues on behalf of the Public Advocate.

Columbia Gas of Maryland (Public Service Commission of Maryland, Case No. 9417), June 2016. Presented testimony on rate base and cost of service issues on behalf of the Office of People's Counsel.

Chesapeake Utilities Corporation (Delaware Public Service Commission, PSC Docket No. 15-1734), August 2016. Presented testimony on rate base and cost of service issues on behalf of the Staff of the Delaware Public Service Commission.

Kent County Water Authority (Public Service Commission of Rhode Island, Docket No. 4611), September 2016. Presented testimony on rate base and cost of service issues on behalf of the Division of Public Utilities and Carriers.

Northern Utilities, Inc. (Maine Public Utilities Commission, Docket No. 2017-00065), August 2017. Assisted the Maine Office of Public Advocate (OPA) with Northern Utilities application for an increase in rates. Mr. Morgan provided testimony, on behalf of the OPA, on accounting issues including test year revenue requirements, the utility's request to renew and modify its alternative rate plan, and its Targeted Infrastructure Replacement Adjustment.

Indiana Michigan Power Company (Indiana Utility Regulatory Commission, Cause No. 44967), November 2017. Presented testimony on rate base, operating revenues and operating expenses issues on behalf of the Indiana Office of Utility Consumer Counselor.

Emera Maine (Maine Public Utilities Commission, Docket No. 2017-00198), December 2017. Assisted the Maine Office of Public Advocate (OPA) with Emera Maine's application for an increase in rates. Mr. Morgan provided testimony, on behalf of the OPA, on accounting issues including test year revenue requirements, the utility's request to reflect the changes brought about by the Tax Change and Jobs Act of 2017.

UGI-Electric (Pennsylvania Public Utility Commission, Docket No. R-2017-2640058), April 2018. Assisted the Pennsylvania Office of Consumer Advocate (OCA) with UGI-Electric's application for an increase in rates. Mr. Morgan provided testimony, on behalf of the OCA, on accounting issues including test year revenue requirements, the utility's request to reflect the changes brought about by the Tax Change and Jobs Act of 2017.

Philadelphia Water Department (Philadelphia Water, Sewer And Storm Water Rate Board, FY2019-2020 Rate Proceeding), April 2018. Presented testimony on revenue requirements and the Department's three-year rate plan issues on behalf of the Public Advocate.

Westar Energy, Inc. (Westar Energy) and Kansas Gas and Electric Company (KGE), (Kansas State Corporation Commission, Docket No. 18-WSEE-328-RTS), May 2018. Presented testimony on revenue requirements on behalf of the Federal Executive Agencies.

Duquesne Light Company (Pennsylvania Public Utility Commission, Docket No. R-2018-3000124), June 2018. Assisted the Pennsylvania Office of Consumer Advocate (OCA) with UGI-Electric's application for an increase in rates. Presented testimony, on behalf of the OCA, on accounting issues including test year revenue requirements, the utility's request to reflect the changes brought about by the Tax Change and Jobs Act of 2017.

Bangor Natural Gas Company (Maine Public Utilities Commission, Docket No. 2018-00007), June 2018. Assisted the Maine Office of Public Advocate (OPA) Presented testimony, on behalf of the OPA, on the changes brought about by the Tax Change and Jobs Act of 2017.

SUEZ Water Pennsylvania, Inc. (Pennsylvania Public Utility Commission, R-2018-3000834), July 2018. Assisted the Pennsylvania Office of Consumer Advocate (OCA) with SUEZ Water's application for an increase in rates. Presented testimony, on behalf of the OCA, on accounting issues including Rate Base, Operating Income, Inclusion of Costs Related to Expansion Territories and the utility's request to reflect the changes brought about by the Tax Change and Jobs Act of 2017.

Woonsocket Water Division (Public Service Commission of Rhode Island, Docket No. 4879), January 2019. Presented testimony on cost of service issues on behalf of the Division of Public Utilities and Carriers.

Central Maine Power Company (Maine Public Utilities Commission, Docket No. 2018-00194), January 2019. Assisted the Maine Office of Public Advocate (OPA) with Central Maine Power's application for an increase in rates. Mr. Morgan provided testimony, on behalf of the OPA, on accounting issues including test year revenue requirements, the utility's request to reflect the changes brought about by the Tax Change and Jobs Act of 2017.

Philadelphia Water Department (Philadelphia Water, Sewer and Storm Water Rate Board, 2019 Tiered Assistance Program Rate Rider Surcharge Rates Proceeding), May 2019. Presented testimony regarding the appropriate adjustments to the 2019 TAP-R determination. Presented testimony on behalf of the Public Advocate.

Newport Water Department (Public Service Commission of Rhode Island, Docket No. 4933), July 2019. Presented testimony on cost of service issues on behalf of the Division of Public Utilities and Carriers.

UGI-Gas (Pennsylvania Public Utility Commission, Docket No. R-2018-3006814), April 2019. Assisted the Pennsylvania Office of Consumer Advocate (OCA) with UGI-Gas' application for an increase in rates. Mr. Morgan provided testimony, on behalf of the OCA, on accounting issues including Rate Base and Net Operating Income.

Columbia Gas of Maryland (Public Service Commission of Maryland, Case No. 9609), August 2019. Presented testimony on rate base and cost of service issues on behalf of the Office of People's Counsel.

Public Service Company of Colorado (Colorado Public Utility Commission, Proceeding No. 19AL-0268E), September 2019. Mr. Morgan provided testimony, on behalf of the Department of Energy and the Federal Executive Agencies, on accounting issues including test year revenue requirements, Rate Base and Net Operating Income.

Northern Utilities, Inc. (Maine Public Utilities Commission, Docket No. 2019-00092), September 2019. Assisted the Maine Office of Public Advocate (OPA) with Northern Utilities application for an increase in rates. Mr. Morgan provided testimony, on behalf of the OPA, on accounting issues including test year revenue requirements and the utility's request to institute a Capital Investment Recovery Mechanism.

Citizens' Electric Company of Lewisburg (Pennsylvania Public Utility Commission, Docket No. R-2019-3008212), October 2019. Provided testimony on Plant in Service, Construction Work in Progress, Materials and Supplies, Customer Deposits, Depreciation Expense, Growth Factor, and The Tax Cuts and Jobs Act. Mr. Morgan provided testimony on behalf of the Pennsylvania Office of Consumer Advocate (OCA).

Valley Energy, Inc. (Pennsylvania Public Utility Commission, Docket No. R-2019-3008209), October 2019. Provided testimony on Plant in Service, Construction Work in Progress, Materials and Supplies, Customer Deposits, Depreciation Expense, Growth Factor, and The Tax Cuts and Jobs Act. Mr. Morgan provided testimony on behalf of the Pennsylvania Office of Consumer Advocate (OCA).

Wellsboro Electric Company (Pennsylvania Public Utility Commission, Docket No. R-2019-3008208), October 2019. Provided testimony on Plant in Service, Construction Work in Progress, Materials and Supplies, Customer Deposits, Depreciation Expense, Growth Factor,

and The Tax Cuts and Jobs Act. Mr. Morgan provided testimony on behalf of the Pennsylvania Office of Consumer Advocate (OCA).

Blue Granite Water Company (Public Service Commission of South Carolina, (Docket No. 2019-290-WS), January 2020. Assisted the South Carolina Department of Consumer Affairs. Presented testimony on accounting policy issues including test year revenue requirements.

UGI-Gas (Pennsylvania Public Utility Commission, Docket No. R-2019-3015162), May 2020. Assisted the Pennsylvania Office of Consumer Advocate (OCA) with UGI-Gas' application for an increase in rates. Mr. Morgan provided testimony, on behalf of the OCA, on accounting issues including Rate Base and Net Operating Income.

Columbia Gas of Maryland (Public Service Commission of Maryland, Case No. 9644), July 2020. Presented testimony on rate base and cost of service issues on behalf of the Office of People's Counsel.

PECO Energy Company - Gas Division (Pennsylvania Public Utility Commission, Docket No. R-2020-3018929), December 2020. Assisted the Pennsylvania Office of Consumer Advocate (OCA) with PECO-Gas' application for an increase in rates. Mr. Morgan provided testimony, on behalf of the OCA, on accounting issues including Rate Base and Net Operating Income.

Philadelphia Water Department (Philadelphia Water, Sewer and Storm Water Rate Board, Fiscal Years 2022 - 2023 Rates Proceeding), March 2021. Presented testimony on revenue requirements and the Department's three-year rate plan issues on behalf of the Public Advocate.

Versant Maine (Maine Public Utilities Commission, Docket No. 2020-00316), April 2021. Assisted the Maine Office of Public Advocate (OPA) with Versant's application for an increase in rates. Mr. Morgan provided testimony, on behalf of the OPA, on accounting issues including test year revenue requirements.

Maine Water Company (Maine Public Utilities Commission, Docket No. 2021-00053), April 2021. Assisted the Maine Office of Public Advocate (OPA) with Maine Water Company's Request for Approval of Rate Increase and Rate Smoothing Mechanism Pertaining to The Maine Water Company Biddeford & Saco Division. Mr. Morgan provided testimony, on the authorization of the Rate Smoothing Mechanism.

UGI-Electric (Pennsylvania Public Utility Commission, Docket No. R-2021-3023618), May 2021. Assisted the Pennsylvania Office of Consumer Advocate (OCA) with UGI-Electric's application for an increase in rates. Mr. Morgan provided testimony, on behalf of the OCA, on accounting issues including Rate Base and Net Operating Income.

Bangor Natural Gas Company (Maine Public Utilities Commission, Docket No. 2021-00024), June 2021. Assisted the Maine Office of Public Advocate (OPA) with Bangor Natural Gas' application for an increase in rates. Mr. Morgan provided testimony, on behalf of the OPA, on accounting issues including test year revenue requirements.

Philadelphia Gas Works (Philadelphia Gas Commission, Fiscal Year 2021 - 2022 Operating Budget Proceeding), June 2021. Presented testimony on the reasonableness of the Fiscal Year 2022 Operating Budget on behalf of the Public Advocate.

Duquesne Light Company (Pennsylvania Public Utility Commission, Docket No. R-2021-3024750), June 2021. Assisted the Pennsylvania Office of Consumer Advocate (OCA) with Duquesne Light Company's application for an increase in rates. Presented testimony, on behalf of the OCA, on accounting issues including test year revenue requirements.

Columbia Gas of Maryland (Public Service Commission of Maryland, Case No. 9664), July 2021. Presented testimony on rate base and cost of service issues on behalf of the Office of People's Counsel.

Palmetto Wastewater Reclamation, Inc. (Public Service Commission of South Carolina, (Docket No. 2021-153-S), September 2021. Assisted the South Carolina Department of Consumer Affairs. Presented testimony on accounting policy issues including test year revenue requirements.

Maine Water Company (Maine Public Utilities Commission, Docket No. 2021-00289), November 2021. Assisted the Maine Office of Public Advocate (OPA) with Maine Water Company's application for an increase in rates. Mr. Morgan provided testimony, on behalf of the OPA, on accounting issues including test year revenue requirements.

City of Lancaster – Water Department (Pennsylvania Public Utility Commission, Docket No. R-2021-3026682), December 2021. Assisted the Pennsylvania Office of Consumer Advocate (OCA) with the City of Lancaster – Water Department's application for an increase in rates. Presented testimony, on behalf of the OCA, on accounting issues including test year revenue requirements.

Maryland Water Service (Public Service Commission of Maryland, Case No. 9671), January 2022. Presented testimony on rate base and cost of service issues on behalf of the Office of People's Counsel.

Commonwealth Edison Company (Illinois Commerce Commission, ICC Docket No. 21-0607 & ICC Docket No. 21-0739 (consolidated), February 2022. Provided testimony related to the review and evaluation of the rate effects of Commonwealth Edison's misconduct admitted in the Deferred Prosecution Agreement between the United States Attorney for the Northern District of Illinois and Commonwealth Edison. Provided testimony on behalf of the Office of the Illinois Attorney General, the City of Chicago, and the Citizens Utility Board.

Philadelphia Gas Works (Philadelphia Gas Commission, Fiscal Year 2022 - 2023 Capital Budget Proceeding), February 2022. Presented testimony proposing several adjustments to Philadelphia Gas Works' Fiscal Year 2023 Capital Budget on behalf of the Public Advocate.

Philadelphia Water Department (Philadelphia Water, Sewer and Storm Water Rate Board, 2022 Tiered Assistance Program Rate Rider Surcharge Rates Proceeding), March 2022. Presented testimony regarding the appropriate adjustments to the 2022 TAP-R determination. Presented testimony on behalf of the Public Advocate.

Philadelphia Water Department (Philadelphia Water, Sewer and Storm Water Rate Board, Fiscal Years 2023 Special Rate Proceeding), April 2022. Presented testimony that demonstrated Philadelphia Water Department's outperformance and proposed a sharing of the utility's outperformance earnings. Presented testimony on behalf of the Public Advocate.

Maine Water Company-Camden& Rockland Division (Maine Public Utilities Commission, Docket No. 2022-00056), June 2022. Assisted the Maine Office of Public Advocate (OPA) with Maine Water Company's application for an increase in rates. Mr. Morgan provided testimony, on behalf of the OPA, on accounting issues including test year revenue requirements.

Maine Water Company-Freeport Division (Maine Public Utilities Commission, Docket No. 2022-00057), June 2022. Assisted the Maine Office of Public Advocate (OPA) with Maine Water Company's application for an increase in rates. Mr. Morgan provided testimony, on behalf of the OPA, on accounting issues including test year revenue requirements.

Maine Water Company-Millinocket Division (Maine Public Utilities Commission, Docket No. 2022-00058), June 2022. Assisted the Maine Office of Public Advocate (OPA) with Maine Water Company's application for an increase in rates. Mr. Morgan provided testimony, on behalf of the OPA, on accounting issues including test year revenue requirements.

Maine Water Company-Oakland Division (Maine Public Utilities Commission, Docket No. 2022-00059), June 2022. Assisted the Maine Office of Public Advocate (OPA) with Maine Water Company's application for an increase in rates. Mr. Morgan provided testimony, on behalf of the OPA, on accounting issues including test year revenue requirements.

Columbia Gas of Pennsylvania (Pennsylvania Public Utility Commission, Docket No. R-2022-3031211), June 2022. Assisted the Pennsylvania Office of Consumer Advocate (OCA) with Columbia Gas of Pennsylvania's application for an increase in rates. Presented testimony, on behalf of the OCA, on accounting issues including test year revenue requirements.

Philadelphia Gas Works (Philadelphia Gas Commission, Fiscal Year 2022 - 2023 Operating Budget Proceeding), June 2022. Presented testimony on the reasonableness of the Fiscal Year 2023 Operating Budget on behalf of the Public Advocate.

Columbia Gas of Maryland (Public Service Commission of Maryland, Case No. 9680), July 2022. Presented joint testimony on rate base and cost of service issues on behalf of the Office of People's Counsel.

Oncor Electric Delivery Company (Public Utility Commission of Texas, PUC Docket No. 53601), August 2022. Presented joint testimony on rate base and cost of service issues on behalf of the Department of Defense and Federal Executive Agencies.

Cheyenne Light, Fuel and Power Company d/b/a Black Hills Energy (Wyoming Public Service Commission, Docket No. 20003-214-ER-22), November 2022. Presented testimony, on behalf of Microsoft Corporation, on rate base and cost of service issues.

Central Maine Power Company (Maine Public Utilities Commission, Docket No. 2022-00152), December 2022. Assisted the Maine Office of Public Advocate (OPA) with Central Maine Power's application for an increase in rates. Provided testimony, on behalf of the OPA, on accounting issues including test year revenue requirements and the company's request for a multi-year rate plan.

National Fuel Gas Distribution Corporation (Pennsylvania Public Utility Commission, Docket No. R-2022-3035730), January 2023. Assisted the Pennsylvania Office of Consumer Advocate (OCA) with National Fuel Gas Distribution Corporation's application for an increase in rates. Presented testimony, on behalf of the OCA, on accounting issues including test year revenue requirements.

Philadelphia Gas Works (Philadelphia Gas Commission, Fiscal Year 2022 - 2023 Capital Budget Proceeding), February 2023. Presented testimony proposing several adjustments to Philadelphia Gas Works' Fiscal Year 2024 Capital Budget on behalf of the Public Advocate.

Philadelphia Water Department (Philadelphia Water, Sewer and Storm Water Rate Board, 2023 Tiered Assistance Program Rate Rider Surcharge Rates Proceeding), March 2023. Presented testimony regarding the appropriate adjustments to the 2023 TAP-R determination. Presented testimony on behalf of the Public Advocate.

Philadelphia Water Department (Philadelphia Water, Sewer and Storm Water Rate Board, Fiscal Years 2024 - 2025 Rates Proceeding), April 2023. Presented testimony on behalf of the Public Advocate on revenue requirements and issues relating to the Department's proposed two-year rate plan.

Dayton Power and Light Company d/b/a AES Ohio (The Public Utilities Commission of Ohio, Case No. 22-900-EL-SSO), April 2023. Presented testimony addressing the recovery of deferred costs and regulatory assets as part of AES Ohio's Application for Approval of Its Electric Security Plan on behalf of the Office of the Ohio Consumers' Counsel.

Maine Water Company- Biddeford & Saco Division (Maine Public Utilities Commission, Docket No. 2023-00065), June 2023. Assisted the Maine Office of Public Advocate (OPA) with Maine Water Company's application for an increase in rates. Provided testimony, on behalf of the OPA, on accounting issues and test year revenue requirements.

Potomac Edison Company (Public Service Commission of Maryland, Case No. 9695), June 2023. Presented testimony on rate base, cost of service and accounting issues on behalf of the Office of People's Counsel.

Philadelphia Gas Works (Philadelphia Gas Commission, Fiscal Year 2023 - 2024 Operating Budget Proceeding), June 2023. Presented testimony identifying issues and recommendations to be considered in approving the Fiscal Year 2024 Operating Budget on behalf of the Public Advocate.

Northern Utilities, Inc. (Maine Public Utilities Commission, Docket No. 2023-00051), July 2023. Assisted the Maine Office of Public Advocate (OPA) with Northern Utilities application for an increase in rates. Provided testimony, on behalf of the OPA, on accounting issues and test year revenue requirements.

Philadelphia Gas Works (Philadelphia Gas Commission, Fiscal Year 2024 Capital Budget Amendment), August 2023. Presented testimony as to the appropriateness of Philadelphia Gas Works' amendments to the Fiscal Year 2024 Capital Budget on behalf of the Public Advocate.

Evergy Kansas Central, Inc. (Kansas State Corporation Commission, Docket No. 23-EKCE-775-RTS), August 2023. Assisted the U.S. Department of Defense and the Federal Executive Agencies with Evergy Kansas Central, Inc. application for an increase in rates. Provided testimony on accounting issues including test year revenue requirements.

American Transmission Systems, Inc., Mid-Atlantic Interstate Transmission, LLC and Trans-Allegheny Interstate Line Company (Pennsylvania Public Utility Commission, Docket Nos. A-2023-3040481, A-2023-3040482, A-2023-3040483, G-2023-3040484 and G-2023-3040485), August 2023. Assisted the Pennsylvania Office of Consumer Advocate (OCA) with investigation of Joint Applicants application to sell additional equity stake in FirstEnergy Transmission LLC to North American Transmission Company II, L.P. Provided testimony, on behalf of the OCA, identifying issues and recommendations to be considered by the Commission in approving the transaction.

Fitchburg Gas and Electric Light Company d/b/a Unitil (Electric and Gas Divisions) (Massachusetts Department of Public Utilities, Docket Nos. D.P.U. 23-80 & 23-81), December 2023. Assisted the Massachusetts Office of Attorney General (AGO) with Fitchburg Gas and Electric Light Company's application for an increase in rates. Provided testimony, on behalf of the OPA, on accounting issues and test year revenue requirements.

Philadelphia Gas Works (Philadelphia Gas Commission, Fiscal Year 2024 - 2025 Capital Budget Proceeding), February 2024. Presented testimony proposing several adjustments to Philadelphia Gas Works' Fiscal Year 2024 Capital Budget on behalf of the Public Advocate.

Pawtucket Water Supply Board (Rhode Island Public Utilities Commission, Docket No. 23-30-WW), March 2024. Presented testimony on revenue requirements issues on behalf of the Rhode Island Division of Public Utilities and Carriers.

Massachusetts Electric Company and Nantucket Electric Company, d/b/a National Grid (Massachusetts Department of Public Utilities, Docket Nos. D.P.U. 23-150), March 2024. Assisted the Massachusetts Office of Attorney General (AGO) with National Grid's application for an increase in rates. Provided testimony, on behalf of the OPA, on accounting issues and test year revenue requirements.

Philadelphia Water Department (Philadelphia Water, Sewer and Storm Water Rate Board, 2024-Tiered Assistance Program Rate Rider Surcharge Rates Proceeding), April 2024. Presented testimony regarding the appropriate adjustments to the 2024 TAP-R determination. Presented testimony on behalf of the Public Advocate.

Pennsylvania-American Water Company, Manwalamink Water Company and Manwalamink Sewer Company (Pennsylvania Public Utility Commission, Docket Nos. A-2023-3044418, A-2023-3044419, A-2023-3044421, A-2023-3044422), May 2024. Assisted the Pennsylvania Office of Consumer Advocate (OCA) with investigation of Pennsylvania-American application to acquire Manwalamink Water Company and Manwalamink Sewer Company. Provided testimony, on behalf of the OCA, identifying issues and recommendations to be considered by the Commission in approving the transaction.

Veolia Water Pennsylvania, Inc. (Pennsylvania Public Utility Commission, Docket Nos. R-2024-3045192 and R-2024-3045193, May 2024. Assisted the Pennsylvania Office of Consumer Advocate (OCA) with Veolia Water Pennsylvania's application for an increase in rates. Presented testimony, on behalf of the OCA, on accounting issues including test year revenue requirements.

Dominion Energy South Carolina, Inc. (South Carolina Public Service Commission, Docket No. 2024-34-E), June 2024. Assisted the U.S. Department of Defense and the Federal Executive Agencies with Dominion Energy South Carolina, Inc.'s application for an increase in rates. Provided testimony on accounting issues including test year revenue requirements.

Versant Maine (Maine Public Utilities Commission, Docket No. 2023-00336), June 2024. Assisted the Maine Office of Public Advocate (OPA) with Versant's application for an increase in rates. Mr. Morgan provided testimony, on behalf of the OPA, on accounting issues including test year revenue requirements.

Maryland Water Service (Public Service Commission of Maryland, Case No. 9729), June 2024. Presented testimony on rate base and cost of service issues on behalf of the Office of People's Counsel.

Philadelphia Gas Works (Philadelphia Gas Commission, Fiscal Year 2024 - 2025 Operating Budget Proceeding), June 2024. Presented testimony identifying issues and recommendations to be considered in approving the Fiscal Year 2025 Operating Budget on behalf of the Public Advocate.

Elizabethtown Gas Company (New Jersey Board of Public Utilities, BPU Docket No. GR24020158), June-August 2024. Assisted the Division of Rate Counsel with the investigation and litigation of Elizabethtown Gas Company's application for an increase in rates. Mr. Morgan investigated the Company's claimed revenue requirement and assisted the Division of Rate Counsel on accounting issues and participated in the settlement negotiations leading to the case resolution.

New Jersey Natural Gas Company (New Jersey Board of Public Utilities, BPU Docket No. GR19020278), July-September 2024. Assisted the Division of Rate Counsel with the investigation and litigation of New Jersey Natural Gas Company's Request for Approval to Implement an Infrastructure Investment Program and Associated Cost Recovery Mechanism.

City of Newport Utilities Department Water Division (Rhode Island Public Utilities Commission, Docket No. 24-30-WW), October 2024. Presented testimony on revenue requirements issues on behalf of the Rhode Island Division of Public Utilities and Carriers.

Staff-Assisted Rate Case for Nine Water Utilities Located in Southern Maryland (Maryland Public Service Commission, Case No. 9750), November 2024. Engaged by the Maryland Office of People's Counsel to review, evaluate and determine the reasonableness of the revenue requirement of the Commission Staff-assisted Rate Case for nine small water utilities.

Maine Water Company-Camden & Rockland Division (Maine Public Utilities Commission, Docket No. 2024-00291), January 2025. Assisted the Maine Office of Public Advocate (OPA) with Maine Water Company's application for an increase in rates. Mr. Morgan provided testimony, on behalf of the OPA, on accounting issues including test year revenue requirements.

Philadelphia Gas Works (Philadelphia Gas Commission, Fiscal Year 2025 - 2026 Capital Budget Proceeding), February 2025. Presented testimony proposing several adjustments to Philadelphia Gas Works' Fiscal Year 2026 Capital Budget on behalf of the Public Advocate.

City of Woonsocket Water Division (Rhode Island Public Utilities Commission, Docket No. 25-01-WW), April 2025. Presented testimony on revenue requirements issues on behalf of the Rhode Island Division of Public Utilities and Carriers.

Golden Heart Utilities, Inc. and College Utilities Corporation (The Regulatory Commission of Alaska, Docket No. U-24-030 & U-24-031), April 2025. Presented testimony on water and sewer revenue requirements/cost of service issues on behalf of the United States Department of Defense and All Other Federal Executive Agencies.

Philadelphia Water Department (Philadelphia Water, Sewer and Storm Water Rate Board, 2025 Tiered Assistance Program Rate Rider Surcharge Rates Proceeding), April 2025. Presented testimony regarding the appropriate adjustments to the 2025 TAP-R determination. Presented testimony on behalf of the Public Advocate.

Philadelphia Water Department (Philadelphia Water, Sewer and Storm Water Rate Board, Fiscal Years 2026 - 2027 Rates Proceeding), May 2025. Presented testimony on behalf of the Public Advocate on revenue requirements and issues relating to the Department's proposed two-year rate plan.

Philadelphia Gas Works (Philadelphia Gas Commission, Fiscal Year 2025 - 2026 Operating Budget Proceeding), June 2025. Presented testimony identifying issues and recommendations to be considered in approving the Fiscal Year 2026 Operating Budget on behalf of the Public Advocate.

Loring Development Authority (Maine Public Utilities Commission, Docket No. 2024-00300), June 2025. Assisted the Maine Office of Public Advocate (OPA) with the determination Loring Development Authority's initial rates as a regulated utility. Mr. Morgan provided testimony, on behalf of the OPA, on accounting issues including the test year cost of service and revenue requirements.

Pike County Light and Power Company, Leatherstocking Gas Company, LLC, Corning Energy Corporation, ACP Series 3 Partnership L.P., Argo Capital Platform (P) 2017, L.P. Argo Capital Platform (K) Series 3, L.P., ACP Crotona Holdings L.P., ACP Crotona Corp., Argo Infrastructure Partners LLC and Apollo Global Management, Inc. (Pennsylvania Public Utility Commission, A-2025-3055264, A-2025-3055265, A-2025-3055335), September 2025. Assisted the Pennsylvania Office of Consumer Advocate (OCA) with investigation of Apollo Global Management, Inc. application to acquire Pike County Light and Power Company and Leatherstocking Gas Company, LLC,. Provided testimony, on behalf of the OCA, identifying issues and recommendations to be considered by the Commission in approving the transaction.

American Water Works Company, Inc. ("American Water"), Pennsylvania-American Water Company ("PAWC"), Nexus Regulated Utilities, LLC ("Nexus") and Community Utilities of Pennsylvania Inc. ("CUPA") for all the necessary authority, approvals, and certificates of public convenience under Sections 1102 and 1103 of the Pennsylvania Public Utility Code to approve the transfer of control of CUPA from Nexus to American Water. (Pennsylvania Public Utility Commission, A-2025-3055551, A-2025-3055552, A-2025-3055553, A-2025-3055554), October 2025. Assisted the Pennsylvania Office of Consumer Advocate (OCA)

with investigation of Pennsylvania-American Water application to acquire Community Utilities of Pennsylvania Inc. Provided testimony, on behalf of the OCA, identifying issues and recommendations to be considered by the Commission in approving the transaction.

Energy Center Harrisburg LLC. (Pennsylvania Public Utility Commission, Docket No. R-2025-3055959, October 2025. Assisted the Pennsylvania Office of Consumer Advocate (OCA) with the evaluation of Energy Center Harrisburg LLC's request for a base rate increase. Presented testimony, on behalf of the OCA, on accounting issues including test year revenue requirements.

City of Lancaster – Water Department (Pennsylvania Public Utility Commission, Docket No. R-2025-3057237), December 2025. Assisted the Pennsylvania Office of Consumer Advocate (OCA) with the City of Lancaster – Water Department's application for an increase in rates. Presented testimony, on behalf of the OCA, on accounting issues including test year revenue requirements.

PPL Electric Utilities (Pennsylvania Public Utility Commission, Docket No. R-2025-3057164), December 2025. Presented testimony on rate base and cost of service issues on behalf of the Pennsylvania Office of Consumer Advocate.

Special Projects

Developed a Uniform System of Accounts and Financial Data Collection Template for five countries participating in the National Association of Regulatory Utility Commissioners (NARUC)/East Africa Regional Energy Regulatory Partnership. Also conducted training seminars and participated as a panel member addressing issues in the utility industry from the perspective of the regulator. This work was conducted by NARUC) and the United States Agency for International Development (USAID).

Other Projects

Texas Gas Transmission Corporation (Federal Energy Regulatory Commission, Docket No. RP93-106). Technical analysis and participation in settlement negotiations on cost of service, invested capital, and revenue deficiency on behalf of the Indiana Office of Utility Consumer Counselor.

Natural Gas Pipeline Company of America (Federal Energy Regulatory Commission, Docket No. RP93-36). Technical analysis and participation in settlement negotiations on cost of service, invested capital, and revenue deficiency on behalf of the Indiana Office of Utility Consumer Counselor.

Texas Gas Transmission Company (Federal Energy Regulatory Commission, Docket No. RP94-423). Technical analysis and participation in settlement negotiations on cost of service, invested capital, and revenue deficiency on behalf of the Indiana Office of Utility Consumer Counselor.

Lafourche Telephone Company (Louisiana Public Service Commission, Docket No. U-21181). Analysis and investigation of earnings and appropriate rate of return on behalf of the Louisiana Public Service Commission Staff.

Natural Gas Pipeline Company of America (Federal Energy Regulatory Commission, Docket No. RP95-326). Technical analysis and participation in settlement negotiations on cost of service, invested capital, and revenue deficiency on behalf of the Indiana Office of Utility Consumer Counselor.

Pymatuning Independent Telephone Company (Pennsylvania Public Utility Commission, Docket No. R-00953502). Technical analysis and development of settlement position in the Company's rate case on behalf of the Pennsylvania Office of Consumer Advocate.

Illinois Bell Telephone Company (Illinois Commerce Commission, Docket No. 96-0172). Technical analysis of the Company's annual rate filing pursuant to its Price Cap Plan on behalf of Citizens Utility Board.

Illinois Bell Telephone Company (Illinois Commerce Commission, Docket No. 97-0157). Technical analysis of the Company's annual rate filing pursuant to its Price Cap Plan on behalf of Citizens Utility Board.

TDS Telecom (Pennsylvania Public Utility Commission, Docket Nos. R-00973892 and R-00973893). Technical analysis regarding rate base, cost of service, rate design, and rate of return, and assistance in settlement negotiations in the Company's rate case and alternative regulatory filing on behalf of the Pennsylvania Office of Consumer Advocate.

Appalachian Power Company (Virginia State Corporation Commission, Case No. PUE 960301). Technical analysis regarding rate base and cost of service and assistance in settlement negotiations in the Company's rate case and alternative regulatory filing on behalf of the Virginia Office of the Attorney General.

Central Maine Power Company (Maine Public Utilities Commission, Docket No. 97-580). Technical analysis regarding attrition and accounting issues in the Company's Transmission and Distribution unbundling proceeding on behalf of the Maine Public Utilities Commission Staff.

Illinois Bell Telephone Company (Illinois Commerce Commission, Docket No. 98-0259). Technical Analysis of the Company's annual rate filing pursuant to its Price Cap Plan on behalf of Citizens Utility Board.

Maine Public Service Company (Maine Public Utilities Commission, Docket No. 98-577). Technical analysis regarding attrition and accounting issues in the Company's Transmission and Distribution unbundling proceeding on behalf of the Maine Public Utilities Commission Staff.

Bangor Hydro-Electric Company (Maine Public Utilities Commission, Docket No. 97-596). Technical analysis regarding attrition and accounting issues in the Company's Transmission and Distribution unbundling proceeding on behalf of the Maine Public Utilities Commission Staff.

TDS Telecom (Maine Public Utilities Commission, Docket Nos. 98-894, 98-895, 98-904, 98-906, 98-911, and 98-912). Technical analysis regarding accounting issues and access rate changes on behalf of the Maine Office of the Public Advocate.

Mid-Maine Telecom (Maine Public Utilities Commission, Docket No. 2000-810). Technical analysis regarding accounting issues and access rate changes on behalf of the Maine Office of the Public Advocate.

Unitel, Inc. (Maine Public Utilities Commission, Docket No. 2000-813). Technical analysis regarding accounting issues and access rate changes on behalf of the Maine Office of the Public Advocate.

Hydraulics International, Inc. (Armed Services Board of Contract Appeals, ASBCA No. 51285). Technical analysis and support relating to the Economic Adjustment Clause claim on behalf of the Air Force Materiel Command.

Tidewater Telecom and Lincolnville Telephone Company (Maine Public Utilities Commission, Docket Nos. 2002-100 and 2002-99). Technical analysis regarding accounting issues and access rate changes on behalf of the Maine Office of the Public Advocate.

TDS Telecom (Vermont Public Service Board, Docket No. 6576). Technical analysis regarding rate base, cost of service, and depreciation expense on behalf of the Vermont Department of Public Service.

CenterPoint Energy-Entex (Louisiana Public Service Commission, Docket No. U-26720, Subdocket A). Technical analysis regarding rate base and cost of service on behalf of the Louisiana Public Service Commission Staff.

CenterPoint Energy-Arkla (Louisiana Public Service Commission, Docket No. U-27676). Technical analysis regarding rate base and cost of service on behalf of the Louisiana Public Service Commission Staff.

Provided technical analysis and support on behalf of the Louisiana Public Service Commission Staff relating to CLECO Power LLC Rate Stabilization Plan.

Provided technical analysis and support on behalf of the Louisiana Public Service Commission Staff relating to CLECO Power LLC post-Katrina power purchases.

Provided technical analysis and support on behalf of the Louisiana Public Service Commission Staff relating to Entergy Louisiana LLC recovery of storm damage costs.

Westar Energy, Inc. (Westar Energy) and Kansas Gas and Electric Company (KGE), (Kansas State Corporation Commission, Docket No. 17-WSEE-147-RTS). Technical analysis regarding rate base and cost of service on behalf of the Federal Executive Agencies.

Westar Energy, Inc. (Westar Energy) and Kansas Gas and Electric Company (KGE), (Kansas State Corporation Commission, Docket No. 17-WSEE-147-RTS). Technical analysis regarding rate base and cost of service on behalf of the Federal Executive Agencies.

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	:	
	:	
v.	:	Docket Nos. R-2025-3057983 (W)
	:	R-2025-3058051 (WW)
Pennsylvania-American Water Company	:	
	:	

VERIFICATION

I, Lafayette K. Morgan, hereby state that the facts above set forth in my Corrected Direct Testimony, OCA Statement No. 1, 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 herein are made subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

DATED: February 2, 2026

Signature: */s/ Lafayette K. Morgan*
Lafayette K. Morgan

Address: Exeter Associates, Inc.
10480 Little Patuxent Parkway
Suite 300
Columbia, MD 21044-3575

BEFORE THE

PENNSYLVANIA PUBLIC UTILITY COMMISSION

PENNSYLVANIA PUBLIC UTILITY COMMISSION v. PENNSYLVANIA AMERICAN WATER COMPANY	))))))))	Docket Nos. R-2025-3057083 R-2025-3058051

OFFICE OF CONSUMER ADVOCATE

ERRATA TO OCA STATEMENT 2

Errata to OCA St. 2

Page 3, lines 5-8: "My proposed adjustment to PAWC's ROE results in an overall weighted rate of return of 6.96% for water operations and 6.59% for wastewater operations. Adopting my recommended adjustment to the authorized rate of return would result in a revenue requirement reduction of $17.3 million~~**~~."

Page 41, line 9-11: "Although it is not my recommendation, if the Company were awarded a 9.45% ROE, it would reduce the Company's proposed rate increase to $92.22 ~~17.3~~ million"

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	**:**	
	:	**Docket Nos. R-2025-3057983**
v.	**:**	**R-2025-3058051**
	:	
Pennsylvania American Water Company	**:**	

CORRECTED DIRECT TESTIMONY

OF

DAVID J. GARRETT

ON BEHALF OF

THE PENNSYLVANIA OFFICE OF CONSUMER ADVOCATE

Date Direct Testimony Served: January 30, 2026
Date Corrected Direct Testimony Served: February 2, 2026

TABLE OF CONTENTS

I. INTRODUCTION 1

II. EXECUTIVE SUMMARY 2

A. Rate of Return Summary 2

B. Depreciation Summary 3

Part One: Rate of Return

III. REGULATORY STANDARDS 6

IV. GENERAL CONCEPTS AND METHODOLOGY 9

V. RISK AND RETURN CONCEPTS 12

VI. DISCOUNTED CASH FLOW ANALYSIS 18

A. Stock Price 19

B. Dividend 21

C. Growth Rate 21

D. Response to Ms. Bulkley's DCF Model 26

VII. CAPITAL ASSET PRICING MODEL ANALYSIS 27

A. The Risk-Free Rate 28

B. The Beta Coefficient 29

C. The Equity Risk Premium 30

D. Response to Ms. Bulkley's CAPM Analysis 37

1. Equity Risk Premium 38

2. Empirical CAPM 39

VIII. RATE OF RETURN CONCLUSION 40

Part Two: Depreciation

IX. REGULATORY STANDARDS 44

A. Depreciation System 45

B. Average Life vs Equal Life Method 46

X. SERVICE LIFE ANALYSIS 53

LIST OF EXHIBITS

Part One: Rate of Return

Exhibit DJG-1	Curriculum Vitae
Exhibit DJG-2	Proxy Group Summary
Exhibit DJG-3	DCF – Stock and Index Prices
Exhibit DJG-4	DCF – Dividend Yields
Exhibit DJG-5	DCF – Terminal Growth Determinants
Exhibit DJG-6	DCF – Final Results
Exhibit DJG-7	CAPM – Risk-Free Rate Estimate
Exhibit DJG-8	CAPM – Beta Coefficients
Exhibit DJG-9	CAPM – Implied ERP Estimate
Exhibit DJG-10	CAPM – Equity Risk Premium Results
Exhibit DJG-11	CAPM – Final Results
Exhibit DJG-12	Cost of Equity Summary
Exhibit DJG-13	Final Rate of Return Recommendation

Part Two: Depreciation

Exhibit DJG-14	Summary Rate and Accrual Adjustment
Exhibit DJG-15	Detailed Rate Comparison – 2025
Exhibit DJG-16	Depreciation Rate Development – 2025
Exhibit DJG-17	Detailed Rate Comparison – 2026
Exhibit DJG-18	Depreciation Rate Development – 2026
Exhibit DJG-19	Detailed Rate Comparison – 2027
Exhibit DJG-20	Depreciation Rate Development – 2027
Exhibit DJG-21	Remaining Life Development – 2025
Exhibit DJG-22	Remaining Life Development – 2026
Exhibit DJG-23	Remaining Life Development – 2027

APPENDICES

Appendix A:	Discounted Cash Flow Model Theory
Appendix B:	Capital Asset Pricing Model Theory
Appendix C:	The Depreciation System
Appendix D:	Iowa Curves
Appendix E:	Actuarial Analysis

I. INTRODUCTION

Q. State your name and occupation.

A. My name is David J. Garrett. I am a consultant specializing in public utility regulation. I am the managing member of Resolve Utility Consulting PLLC.

Q. Summarize your educational background and professional experience.

A. I received a B.B.A. with a major in Finance, an M.B.A., and a Juris Doctor from the University of Oklahoma. I worked in private legal practice for several years before accepting a position as assistant general counsel at the Oklahoma Corporation Commission in 2011. At the commission, I worked in the Office of General Counsel in regulatory proceedings. In 2012, I began working for the Public Utility Division as a regulatory analyst providing testimony in regulatory proceedings. After leaving the commission, I formed Resolve Utility Consulting PLLC, where I have represented various consumer groups and state agencies in utility regulatory proceedings, primarily in the areas of cost of capital and depreciation. I am a Certified Depreciation Professional with the Society of Depreciation Professionals. I am also a Certified Rate of Return Analyst with the Society of Utility and Regulatory Financial Analysts. A more complete description of my qualifications and regulatory experience is included in my curriculum vitae.[1]

Q. On whose behalf are you testifying in this proceeding?

A. I am testifying on behalf of the Pennsylvania Office of Consumer Advocate ("OCA").

[1] Exhibit DJG-1.

Q. Describe the purpose and scope of your testimony in this proceeding.

A. My testimony addresses Pennsylvania-American Water Company's ("PAWC" or the "Company") proposed rate of return in response to the direct testimony of PAWC witness Ann Bulkley. I also address PAWC's depreciation study and proposed depreciation rates in response to the direct testimony of Company witness John Spanos.

Q. Please describe the organization of your testimony.

A. In the executive summary below, I provide an overview of the cost of capital issues, my recommendations, and my response to PAWC's testimony on these issues. In the sections that follow, I discuss the legal standards governing the awarded return issue as well as the general concepts involved in estimating the cost of equity. I discuss the concepts of risk and return. I provide detailed analysis of the Discounted Cash Flow ("DCF") Model, the Capital Asset Pricing Model ("CAPM"), including my results for these models and my responses to Ms. Bulkley's results. In addition, I discuss my recommendation to reject PAWC's proposed depreciation rates, which are based on a methodology that effectively results in accelerated capital recovery.

II. EXECUTIVE SUMMARY

A. Rate of Return Summary

Q. Please summarize your rate of return recommendation to the Commission.

A. The key points of my testimony are as follows:

- The Commission should reject PAWC's proposed return on equity ("ROE") of 10.95% as excessive and unsupported. An objective cost of equity analysis shows

that PAWC's market-determined cost of equity is notably lower than PAWC's proposed ROE.

- Based on the results of my financial modeling using the DCF and CAPM models, I recommend that the Commission authorize an ROE of 8.7% for PAWC.
- My proposed adjustment to PAWC's ROE results in an overall weighted rate of return of 6.96% for water operations and 6.59% for wastewater operations. Adopting my recommended adjustment to the authorized rate of return would result in a revenue requirement reduction of $17.3 million.[2]

B. Depreciation Summary

Q. Please summarize PAWC's proposed depreciation rates.

A. PAWC's proposed depreciation rates amount to a total annual depreciation accrual of $263 million based on plant balances at June 30, 2027.[3] PAWC's proposed depreciation rates are based on the depreciation study sponsored by Mr. Spanos, which is based on plant balances as of June 30, 2025 (the "2025 Study"), June 30, 2026 (the "2026 Study"), and June 30, 2027 (the "2027 Study"). Mr. Spanos applied the equal life group ("ELG") method to calculate his proposed remaining lives for PAWC's depreciable plant.

[2] *See* OCA Statement 1.

[3] Exhibit DJG-14.

Q. Please summarize your adjustments to PAWC's proposed depreciation rates.

A. I recommend that the Commission authorize depreciation rates for PAWC's assets that are calculated using the average life group ("ALG") method. The key points of my testimony are as follows:

- The Commission should reject PAWC's continued use of the ELG method, which effectively results in an accelerated form of cost recovery from consumers. PAWC's use of the ELG method, rather than the widely applied ALG method, increases the annual depreciation accrual charged to customers by $50.1 million in the 2025 Study, by $50.2 million in the 2026 Study, and by $49.9 million in the 2027 Study. In other words, even if there are no adjustments to the net salvage rates, service life, or other depreciation parameters for any accounts in the depreciation study, using the majority-view ALG method alone will result in significantly fairer rates for customers. In addition, in the pending PPL Electric Utilities Corporation base rate case before the Commission (Docket No. R-2025-3057164), Mr. Spanos is proposing ALG depreciation rates.[4]
- The results of my application of the ALG method to PAWC's depreciation studies are summarized in the table below.[5]

[4] Direct Testimony of John J. Spanos, Docket No. R-2025-3057164 (Sep. 30, 2025).

[5] Exhibit DJG-17; *see also* Exhibits DJG-18 through DJG-23 for detailed depreciation rate calculations and comparisons for the 2024 Study, 2025 Study, and 2026 Study.

Figure 1:
Summary Depreciation Accrual Adjustment – 2025 Study

Plant Operations	PAWC Accrual	OCA Accrual	OCA Adjustment
Water Operations	$ 190,896,455	$ 154,040,446	$ (36,856,009)
Wastewater Sanitary Sewer System (SSS)	26,745,064	20,638,871	(6,106,193)
Butler Area Sewer Authority (BASA)	10,875,378	7,071,721	(3,803,657)
Wastewater Combined Sewer System (CSS)	19,043,262	15,662,376	(3,380,886)
TOTAL PLANT STUDIED	**$ 247,560,159**	**$ 197,413,414**	**$ (50,146,745)**

Figure 2:
Summary Depreciation Accrual Adjustment – 2026 Study

Plant Operations	PAWC Accrual	OCA Accrual	OCA Adjustment
Water Operations	$ 194,622,280	$ 157,589,083	$ (37,033,197)
Wastewater Sanitary Sewer System (SSS)	26,421,463	20,632,278	(5,789,185)
Butler Area Sewer Authority (BASA)	10,716,015	6,833,684	(3,882,331)
Wastewater Combined Sewer System (CSS)	18,983,484	15,870,260	(3,113,224)
Elizabeth Borough Wastewater	1,064,881	732,425	(332,456)
TOTAL PLANT STUDIED	**$ 251,808,123**	**$ 201,657,731**	**$ (50,150,392)**

Figure 3:
Summary Depreciation Accrual Adjustment – 2027 Study

Plant Operations	PAWC Accrual	OCA Accrual	OCA Adjustment
Water Operations	$ 204,148,039	$ 167,195,229	$ (36,952,810)
Wastewater Sanitary Sewer System (SSS)	26,943,479	21,141,801	(5,801,678)
Butler Area Sewer Authority (BASA)	11,299,118	7,431,909	(3,867,209)
Wastewater Combined Sewer System (CSS)	19,602,347	16,619,156	(2,983,191)
Elizabeth Borough Wastewater	1,035,500	742,790	(292,710)
TOTAL PLANT STUDIED	**$ 263,028,483**	**$ 213,130,885**	**$ (49,897,598)**

The evidence supporting my recommendations are discussed in more detail in my testimony.

PART ONE: RATE OF RETURN

III. REGULATORY STANDARDS

Q. Discuss the legal standards governing the awarded rate of return on capital investments for regulated utilities.

A. In *Wilcox v. Consolidated Gas Co. of New York*, [6] the Supreme Court first addressed the meaning of a fair rate of return for public utilities. The Court found that "the amount of risk in the business is a most important factor" in determining the appropriate allowed rate of return.[7] Later, in two landmark cases, the Court set forth the standards by which utilities are allowed to earn a return on capital investments. In *Bluefield Water Works & Improvement Co. v. Public Service Commission of West Virginia*, [8] the Court held:

> A public utility is entitled to such rates as will permit it to earn a return on the value of the property which it employs for the convenience of the public . . . but it has no constitutional right to profits such as are realized or anticipated in highly profitable enterprises or speculative ventures. The return should be reasonably sufficient to assure confidence in the financial soundness of the utility and should be adequate, under efficient and economical management, to maintain and support its credit and enable it to raise the money necessary for the proper discharge of its public duties.[9]

In *Federal Power Commission v. Hope Natural Gas City*,[10] the Court expanded on the guidelines set forth in *Bluefield* and stated:

---

[6] *Wilcox v. Consolidated Gas Co. of New York*, 212 U.S. 19 (1909).

[7] *Id*. at 48.

[8] *Bluefield Water Works & Improvement Co. v. Public Service Commission of West Virginia*, 262 U.S. 679 (1923).

[9] *Id.* at 692-93.

[10] *Federal Power Commission v. Hope Natural Gas Co*., 320 U.S. 591 (1944).

> From the investor or company point of view it is important that there be enough revenue not only for operating expenses but also for the capital costs of the business. These include service on the debt and dividends on the stock. By that standard the return to the equity owner should be commensurate with returns on investments in other enterprises having corresponding risks. That return, moreover, should be sufficient to assure confidence in the financial integrity of the enterprise, so as to maintain its credit and to attract capital.[11]

The cost of capital models I have employed in this case are in accordance with the foregoing legal standards.

Q. Should the awarded rate of return be based on PAWC's actual cost of capital?

A. Yes. The *Hope* Court makes it clear that the allowed return should be based on the actual cost of capital. Moreover, the awarded return must also be fair, just, and reasonable under the circumstances of each case. Under the rate base rate of return model, a utility should be allowed to recover all its reasonable expenses, its capital investments through depreciation, and a return on its capital investments sufficient to satisfy the required return of its investors. The "required return" from the investors' perspective is synonymous with the "cost of capital" from the utility's perspective. Scholars agree that the allowed rate of return should be based on the actual cost of capital:

> Since by definition the cost of capital of a regulated firm represents precisely the expected return that investors could anticipate from other investments while bearing no more or less risk, and since investors will not provide capital unless the investment is expected to yield its opportunity cost of capital, the correspondence of the definition of the cost of capital with the court's definition of legally required earnings appears clear.[12]

---

[11] *Id.* at 603 (emphasis added).

[12] A. Lawrence Kolbe, James A. Read, Jr. & George R. Hall, *The Cost of Capital: Estimating the Rate of Return for Public Utilities*, p. 21 (The MIT Press 1984).

The models I have employed in this case closely estimate PAWC's market-based cost of equity. If the Commission sets the awarded return based on my lower, and more reasonable, rate of return, it will comply with the U.S. Supreme Court's standards, allow PAWC to maintain its financial integrity, and satisfy the claims of its investors. On the other hand, if the Commission sets the allowed rate of return *higher* than the true cost of capital, it arguably results in an inappropriate transfer of wealth.

Q. What does this standard mean for determining the awarded return and the cost of capital?

A. It is important to understand that the *awarded* return and the *cost* of capital are different but related concepts. The two concepts are related in that the legal and technical standards encompassing this issue require that the awarded return reflects the true cost of capital. On the other hand, the two concepts are different in that the legal standards do not mandate that awarded returns exactly match the cost of capital. Awarded returns are set through the regulatory process and may be influenced by factors other than objective market drivers. The cost of capital, on the other hand, should be evaluated objectively and be closely tied to economic realities. In other words, the cost of capital is driven by stock prices, dividends, growth rates, and — most importantly — it is driven by risk. The cost of capital can be estimated by financial models used by firms, investors, and academics around the world for decades. The problem is, with respect to regulated utilities, there has been a trend in which awarded returns fail to closely track with actual market-based cost of capital as further discussed below. To the extent this occurs, the results are detrimental to ratepayers and the state's economy.

Q. Describe the economic impact that occurs when the awarded return strays too far from the U.S. Supreme Court's cost of equity standard.

A. When the awarded ROE is set far above the *cost* of equity, it runs the risk of violating the U.S. Supreme Court's standards that the awarded return should be *based on the cost of capital*. Establishing an awarded return that far exceeds the true cost of capital effectively prevents the awarded returns from changing along with economic conditions. This is especially true given the fact that regulators tend to be influenced by the awarded returns in other jurisdictions, regardless of the various unknown factors influencing those awarded returns. This is yet another reason why it is crucial for regulators to focus on the market-based *cost* of equity, rather than awarded returns from other jurisdictions. Awarded returns may be influenced by settlements and other political factors not based on true market conditions. In contrast, the market-based cost of equity as estimated through objective models is not influenced by these factors but is instead driven by market-based factors. If regulators rely too heavily on the awarded returns from other jurisdictions, it can create a cycle over time that bears little relation to the market-based cost of equity.

IV. GENERAL CONCEPTS AND METHODOLOGY

Q. Discuss your approach to estimating the cost of equity in this case.

A. While a competitive firm must estimate its own cost of capital to assess the profitability of competing capital projects, regulators determine a utility's cost of capital to establish a fair rate of return. The legal standards set forth above do not include specific guidelines regarding the models that must be used to estimate the cost of equity. Over the years, however, regulatory commissions have consistently relied on several models. The models I have employed in this case have been the two most widely used and accepted in regulatory

proceedings for many years. These models are the DCF Model and the CAPM. The specific inputs and calculations for these models are described in more detail below.

Q. Please explain why multiple models are used to estimate the cost of equity.

A. The models used to estimate the cost of equity attempt to measure the return on equity required by investors by estimating several different inputs. It is preferable to use multiple models because the results of any one model may contain a degree of imprecision, especially depending on the reliability of the inputs used at the time of conducting the model. By using multiple models, the analyst can compare the results of the models and look for outlying results and inconsistencies. Likewise, if multiple models produce a similar result, it may indicate a narrower range for the cost of equity estimate.

Q. Please discuss the benefits of choosing a proxy group of companies in conducting cost of capital analyses.

A. The cost of equity models in this case can be used to estimate the cost of capital of any individual, publicly-traded company. There are advantages, however, to conducting cost of capital analyses on a "proxy group" of companies that are comparable to the target company. First, it is better to assess the financial soundness of a utility by comparing it to a group of other financially sound utilities. Second, using a proxy group provides more reliability and confidence in the overall results because there is a larger sample size. Finally, the use of a proxy group is often a pure necessity when the target company is a subsidiary that is not publicly traded. This is because the financial models used to estimate the cost of equity require information from publicly-traded firms, such as stock prices and dividends.

Q. Describe the proxy group you selected in this case.

A. In this case, Ms. Bulkley selected a proxy group consisting of five water utilities and six gas utilities. In addition, Ms. Bulkley did not include PAWC's parent company, American Water Works ("AWK") in her proxy group. For my proxy group, I used the same five water utilities selected by Ms. Bulkley. However, I also included AWK in my proxy group in order to increase the sample size. However, I did not apply any more or less weighting or consideration to the modeling results as they relate to AWK. In that regard, I believe the larger sample size outweighs any concerns regarding a circular reference problem of including AWK. In addition, it is not uncommon for parent companies to be included in the proxy groups for analyzing the subsidiary's cost of equity in regulatory proceedings. I did not include the gas companies Ms. Bulkley used in her proxy group because they are relatively less comparable to PAWC than the water utilities. Moreover, in the final order of the 2023 BRC Docket No. R-2023-3043189, the Commission found that a "proxy group, comprised solely of water utilities, is the proxy group proffered in this proceeding that most closely resembles PAWC."[13] I would also note however, that the main drivers for the discrepancies between Ms. Bulkley's and my modeling results is primarily due to the inputs and assumptions to the models themselves, rather than the different compositions of the proxy groups.

[13] Final Order p. 149, Docket No. R-2023-3043189.

V. RISK AND RETURN CONCEPTS

Q. Please discuss the general relationship between risk and return.

A. As discussed above, risk is the most important factor for the Commission to consider when determining the allowed return. There is a direct relationship between risk and return: the more (or less) risk an investor assumes, the larger (or smaller) return the investor will demand. There are two primary types of risk: firm-specific risk and market risk. Firm-specific risk affects individual companies, while market risk affects all companies in the market to varying degrees.

Q. Discuss the differences between firm-specific risk and market risk.

A. Firm-specific risk affects individual companies, rather than the entire market. For example, a competitive firm might overestimate customer demand for a new product, resulting in reduced sales revenue. This is an example of a firm-specific risk called "project risk."[14] There are several other types of firm-specific risks, including: (1) "financial risk" — the risk that equity investors of leveraged firms face as residual claimants on earnings; (2) "default risk" — the risk that a firm will default on its debt securities; and (3) "business risk" — which encompasses all other operating and managerial factors that may result in investors realizing less than their expected return in that particular company.

While firm-specific risk affects individual companies, market risk affects all companies in the market to varying degrees. Examples of market risk include interest rate

[14] Aswath Damodaran, *Investment Valuation: Tools and Techniques for Determining the Value of Any Asset*, pp. 62-63 (3rd ed., John Wiley & Sons, Inc. 2012).

risk, inflation risk, and the risk of major socio-economic events. When there are changes in these risk factors, they affect all firms in the market to some extent.[15]

Analysis of the U.S. market in 2001 provides a good example for contrasting firm-specific risk and market risk. During that year, Enron Corp.'s stock fell from $80 per share and the company filed for bankruptcy at the end of the year. If an investor's portfolio had held only Enron stock at the beginning of 2001, this irrational investor would have lost the entire investment by the end of the year due to assuming the full exposure of Enron's firm-specific risk (in that case, imprudent management). On the other hand, a rational, diversified investor who invested the same amount of capital in a portfolio holding every stock in the S&P 500 would have had a much different result that year. The rational investor would have been relatively unaffected by the fall of Enron because her portfolio included 499 other stocks. Each of those stocks, however, would have been affected by various *market* risk factors that occurred that year, including the terrorist attacks on September 11th, which affected all stocks in the market. Thus, the rational investor would have incurred a relatively minor loss due to market risk factors, while the irrational investor would have lost everything due to firm-specific risk factors.

Q. Can investors minimize firm-specific risk through portfolio diversification?

A. Yes. A fundamental concept in finance is that firm-specific risk can be minimized through diversification.[16] If someone irrationally invested all their funds in one firm (such as Enron), they would be exposed to all the firm-specific risk *and* the market risk inherent in

---

[15] *See* Zvi Bodie, Alex Kane & Alan J. Marcus, *Essentials of Investments*, p. 149 (9th ed., McGraw-Hill/Irwin 2013).

[16] *See* John R. Graham, Scott B. Smart & William L. Megginson, *Corporate Finance: Linking Theory to What Companies Do*, pp. 179-80 (3rd ed., South Western Cengage Learning 2010).

that single firm. Rational investors, however, are risk-averse and seek to eliminate risk they can control. Investors can essentially eliminate firm-specific risk by adding more stocks to their portfolio through a process called "diversification."

There are two reasons why diversification eliminates firm-specific risk. First, each stock in a diversified portfolio represents a much smaller percentage of the overall portfolio than it would in a portfolio of just one or a few stocks. Thus, any firm-specific action that changes the stock price of one stock in the diversified portfolio will have only a small impact on the entire portfolio.[17]

The second reason why diversification eliminates firm-specific risk is that the effects of firm-specific actions on stock prices can be either positive or negative for each stock. Thus, in large, diversified portfolios, the net effect of these positive and negative firm-specific risk factors will be essentially zero and will not affect the value of the overall portfolio.[18] Firm-specific risk is also called "diversifiable risk" because it can be easily eliminated through diversification.

Q. Do investors expect an additional return for assuming firm-specific risks?

A. No. Because investors eliminate firm-specific risk through diversification, they know they cannot expect a higher return for assuming the firm-specific risk in any one company. Thus, the risks associated with an individual firm's operations are not rewarded by the market. In fact, firm-specific risk is also called "unrewarded" risk for this reason. Market risk, on the other hand, cannot be eliminated through diversification. Because market risk

---

[17] *See* Aswath Damodaran, *Investment Valuation: Tools and Techniques for Determining the Value of Any Asset*, p. 64 (3rd ed., John Wiley & Sons, Inc. 2012).

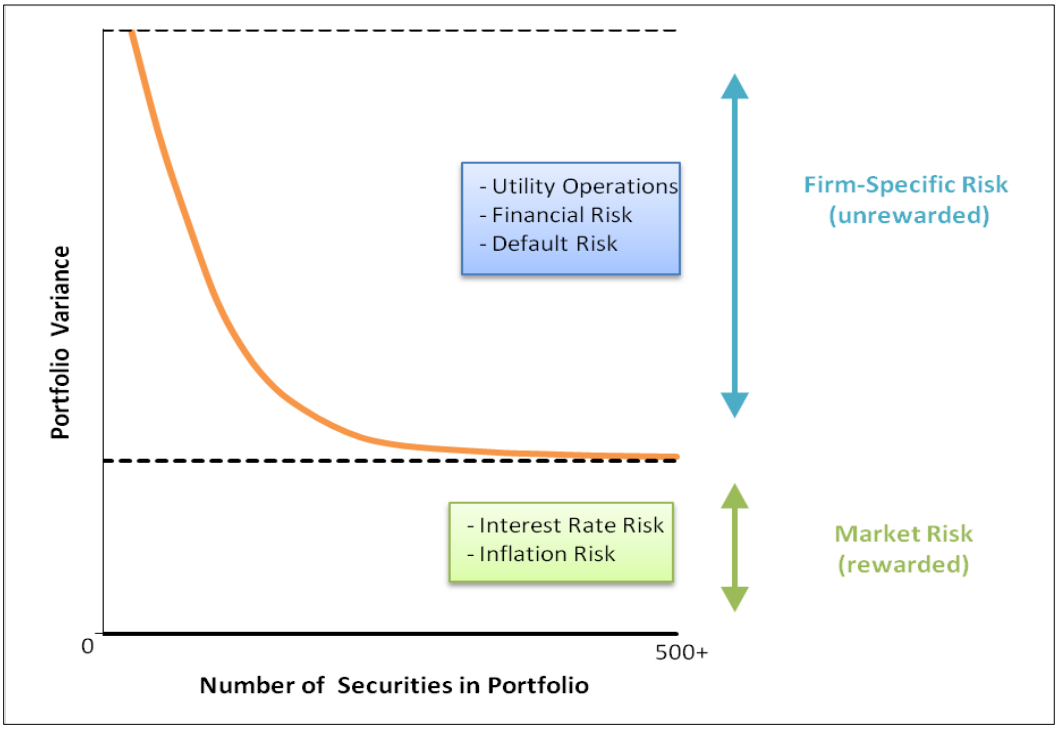
[18] *Id*.

cannot be eliminated through diversification, investors expect a return for assuming this type of risk. Market risk is also called "systematic risk." Scholars recognize the fact that market risk, or "systematic risk," is the only type of risk for which investors expect a return for bearing:

> If investors can cheaply eliminate some risks through diversification, then we should not expect a security to earn higher returns for risks that can be eliminated through diversification. Investors can expect compensation *only* for bearing systematic risk (i.e., risk that cannot be diversified away).[19]

These important concepts are illustrated in the figure below. Some form of this figure is found in many financial textbooks.

Figure 4:
Effects of Portfolio Diversification



[19] *See* John R. Graham, Scott B. Smart & William L. Megginson, *Corporate Finance: Linking Theory to What Companies Do*, p. 180 (3rd ed., South Western Cengage Learning 2010) (emphasis added).

This figure shows that as stocks are added to a portfolio, the amount of firm-specific risk is reduced until it is essentially eliminated. No matter how many stocks are added, however, there remains a certain level of fixed market risk. The level of market risk will vary from firm to firm. Market risk is the only type of risk that is rewarded by the market and is thus the primary type of risk the Commission should consider when determining the allowed return for the utilities it regulates.

Q. Describe how market risk is measured.

A. Investors who want to eliminate firm-specific risk must hold a fully diversified portfolio. To determine the amount of risk that a single stock adds to the overall market portfolio, investors measure the covariance between a single stock and the market portfolio. The result of this calculation is called "beta."[20] Beta represents the sensitivity of a given security to the market as a whole. The market portfolio of all stocks has a beta equal to one. Stocks with betas greater than one are relatively more sensitive to market risk than the average stock. For example, if the market increases (decreases) by 1.0%, a stock with a beta of 1.5 will, on average, increase (decrease) by 1.5%. In contrast, stocks with betas of less than one are less sensitive to market risk, such that if the market increases (decreases) by 1.0%, a stock with a beta of 0.5 will, on average, only increase (decrease) by 0.5%. Thus, stocks with low betas are relatively insulated from market conditions. The beta term is used in the CAPM to estimate the cost of equity, which is discussed in more detail later.[21]

---

[20] *Id*. at 180-81.

[21] Though it will be discussed in more detail later, Exhibit DJG-8 shows that the average beta of the proxy group was less than 1.0. This confirms the well-known concept that utilities are relatively low-risk firms.

Q. Are public utilities characterized as defensive firms that have low betas, low market risk, and are relatively insulated from overall market conditions?

A. Yes. Although market risk affects all firms in the market, it affects different firms to varying degrees. Firms with high betas are affected more than firms with low betas, which is why firms with high betas are riskier. Stocks with betas greater than one are generally known as "cyclical stocks." Firms in cyclical industries are sensitive to recurring patterns of recession and recovery known as the "business cycle."[22] Thus, cyclical firms are exposed to a greater level of market risk. Securities with betas less than one, on the other hand, are known as "defensive stocks." Companies in defensive industries, such as public utility companies, "will have low betas and performance that is comparatively unaffected by overall market conditions."[23] In fact, financial textbooks often use utility companies as prime examples of low-risk, defensive firms. The figure below compares the betas of several industries and illustrates that the utility industry is one of the least risky industries in the U.S. market.[24]

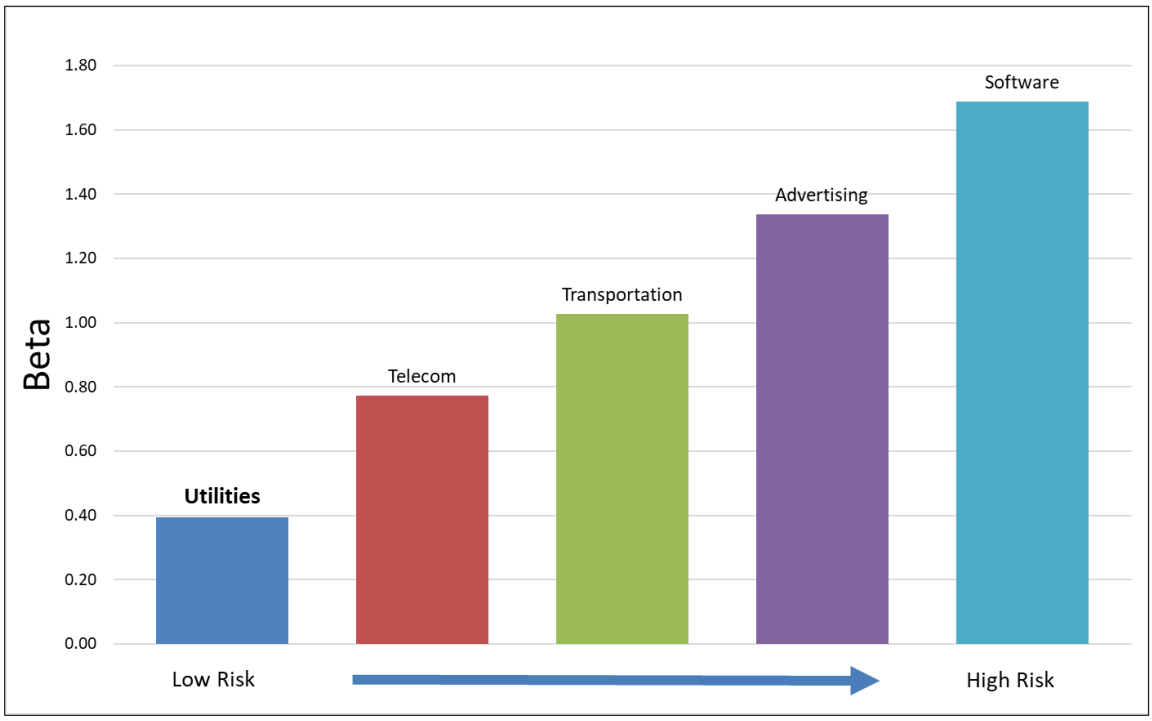
---

[22] *See* Zvi Bodie, Alex Kane & Alan J. Marcus, *Essentials of Investments*, p. 382 (9th ed., McGraw-Hill/Irwin 2013).

[23] *Id*. at 383.

[24] *See* Betas by Sector (US) available at http://pages.stern.nyu.edu/~adamodar/ (2018). (After clicking the link, click "Data" then "Current Data" then "Risk / Discount Rate" from the drop down menu, then "Total Beta by Industry Sector"). The exact beta calculations are not as important as illustrating the well-known fact that utilities are very low-risk companies. The fact that the utility industry is one of the lowest risk industries in the country should not change from year to year.

Figure 5:
Beta by Industry



While utilities are defensive firms that experience little market risk and are relatively insulated from market conditions, this fact should also be appropriately reflected in authorized returns.

VI. DISCOUNTED CASH FLOW ANALYSIS

Q. Describe the DCF Model.

A. The DCF Model is based on a fundamental financial model called the "dividend discount model," which maintains that the value of a security is equal to the present value of the

future cash flows it generates.[25] Cash flows from common stock are paid to investors in the form of dividends. There are several variations of the DCF Model. These versions, along with other formulas and theories related to the DCF Model, are discussed in more detail in Appendix A.

Q. Describe the inputs to the DCF Model.

A. There are three primary inputs in the DCF Model: (1) stock price; (2) dividend; and (3) the long-term growth rate. The stock prices and dividends are known inputs based on recorded data, while the growth rate projection must be estimated. I discuss each of these inputs separately below.

A. Stock Price

Q. How did you determine the stock price input of the DCF Model?

A. For the stock price (P_0), I used a 30-day average of stock prices for each company in the proxy group.[26] Analysts sometimes rely on average stock prices for longer periods (*e.g.*, 60, 90, or 180 days). According to the efficient market hypothesis, however, markets reflect all relevant information available at a particular time, and prices adjust instantaneously to the arrival of new information.[27] Past stock prices, in essence, reflect

[25] Present value (PV) is the current value of a future sum of money or stream of cash flows given a specified rate of return. Present value takes the future value and applies a discount rate or the interest rate that could be earned if invested.

[26] Exhibit DJG-3.

[27] *See* Eugene F. Fama, *Efficient Capital Markets: A Review of Theory and Empirical Work*, Vol. 25, No. 2 The Journal of Finance, p. 383 (1970); *see also* John R. Graham, Scott B. Smart & William L. Megginson, *Corporate Finance: Linking Theory to What Companies Do*, p. 357 (3rd ed., South Western Cengage Learning 2010). The efficient market hypothesis was formally presented by Eugene Fama in 1970 and is a cornerstone of modern financial theory and practice.

outdated information. The DCF Model used in utility rate cases is a derivation of the dividend discount model, which is used to determine the current value of an asset. Thus, according to the dividend discount model and the efficient market hypothesis, the value for the "P_0" term in the DCF Model should technically be the current stock price, rather than an average.

Q. Why did you use a 30-day average for the current stock price input?

A. Using a short-term average of stock prices for the current stock price input adheres to market efficiency principles while avoiding any irregularities that may arise from using a single current stock price. In the context of a utility rate proceeding, there is a significant length of time between when an application is filed and when testimony is due. Choosing a current stock price for one particular day could raise a separate issue concerning which day was chosen to be used in the analysis. In addition, a single stock price on a particular day may be unusually high or low. It is arguably ill-advised to use a single stock price in a model that is ultimately used to set rates for several years, especially if a stock is experiencing some volatility. Thus, it is preferable to use a short-term average of stock prices, which represents a good balance between adhering to well-established principles of market efficiency while avoiding any unnecessary contentions that may arise from using a single stock price on a given day. The stock prices I used in my DCF analysis are based on 30-day averages of adjusted closing stock prices for each company in the proxy group.[28]

[28] Exhibit DJG-3. Adjusted closing prices, rather than actual closing prices, are ideal for analyzing historical stock prices. The adjusted price provides an accurate representation of the firm's equity value beyond the mere market price because it accounts for stock splits and dividends.

B. Dividend

Q. Describe how you determined the dividend input of the DCF Model.

A. The dividend term in the DCF Model represents dividends per share (d_0). I used forward-looking annualized dividends published by Yahoo! Finance for the dividend input to my constant growth DCF Model.[29] Dividing these dividends by the stock prices for each proxy company results in the dividend yield for each company.[30]

Q. Are the stock price and dividend inputs for each proxy company a significant issue in this case?

A. No. Although my stock price and dividend inputs are more recent than those used by Ms. Bulkley, there is not a statistically significant difference between them because utility stock prices and dividends are generally quite stable. This is another reason that cost of capital models such as the CAPM and the DCF Model are well-suited to be conducted on utilities. The differences between my DCF Model and Ms. Bulkley's DCF Model are primarily driven by differences in our growth rate estimates, which are further discussed below.

C. Growth Rate

Q. Please summarize the growth rate input in the DCF Model.

A. The most critical input in the DCF Model is the growth rate. Unlike the stock price and dividend inputs, the growth rate input (g) must be estimated. As a result, the growth rate is often the most contentious issue related to DCF model inputs in utility rate cases. The DCF model used in this case is based on the sustainable growth valuation model. Under

[29] Exhibit DJG-4.

[30] *Id*.

this model, a stock is valued by the present value of its future cash flows in the form of dividends. Before future cash flows are discounted by the cost of equity, however, they must be "grown" into the future by a sustainable growth rate. As stated above, one of the inherent assumptions of this model is that these cash flows in the form of dividends grow at a sustainable rate forever. For young, high-growth firms, estimating the growth rate to be used in the model can be especially difficult, and may require the use of multi-stage growth models. For mature, low-growth firms such as utilities, however, estimating the sustainable growth rate is more transparent. The growth term of the DCF Model is one of the most important, yet least understood, aspects of cost of equity estimations in utility regulatory proceedings. I provide a more detailed explanation on the various determinants of growth below.

Q. Describe the various determinants of growth that can be considered for the growth rate input in the DCF Model.

A. Although the DCF Model directly considers the growth of dividends, there are a variety of growth determinants that should be considered when estimating growth rates. It should be noted that these various growth determinants are used primarily to determine the short-term growth rates in multi-stage DCF models. For utility companies, it is necessary to focus primarily on a long-term growth rate in dividends. This is also known as a "sustainable" growth rate, since this is the growth rate assumed for the company's dividends in perpetuity. That is not to say that these growth determinants cannot be considered when estimating sustainable growth; however, as discussed below, sustainable growth must be constrained much more than short-term growth, especially for young firms

with high growth opportunities. Additionally, I briefly discuss these growth determinants here because it may reveal some of the sources of confusion in this area.

(1) Historical Growth

Looking at a firm's actual historical experience may theoretically provide a good starting point for estimating short-term growth. However, past growth is not always a good indicator of future growth. Some metrics that might be considered here are a historical growth in revenues, operating income, and net income. Since dividends are paid from earnings, estimating historical earnings growth may provide an indication of future earnings and dividend growth.

(2) Analyst Growth Rates

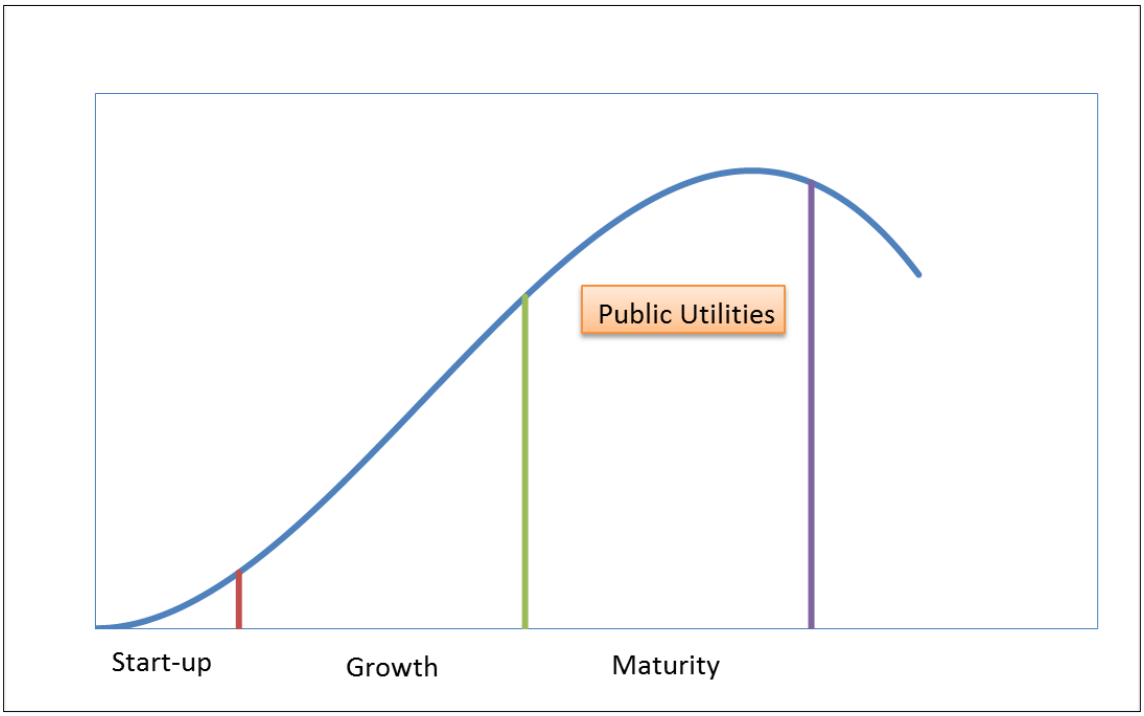
Analyst growth rates refer to short-term projections of earnings growth published by institutional research analysts such as Value Line and Bloomberg. Analyst growth rates, including the limitations with using them in the DCF Model to estimate utility cost of equity, are discussed in more detail below.

(3) Sustainable Growth Rates

In order to make the DCF Model a viable, practical model, an infinite stream of future cash flows must be estimated and then discounted back to the present. Otherwise, each annual cash flow would have to be estimated separately. Some analysts use "multi-stage" DCF Models to estimate the value of high-growth firms through two or more stages of growth, with the final stage of growth being sustainable. However, it is not necessary to use multi-stage DCF Models to analyze the cost of equity of regulated utility companies. This is because regulated utilities are already in their "sustainable," low growth stage. Unlike most competitive firms, the growth of regulated utilities is constrained by physical

service territories and limited primarily by ratepayer and load growth within those territories. The figure below illustrates the well-known business/industry life-cycle pattern.

Figure 6:
Industry Life Cycle



In an industry's early stages, there are ample opportunities for growth and profitable reinvestment. In the maturity stage however, growth opportunities diminish, and firms choose to pay out a larger portion of their earnings in the form of dividends instead of reinvesting them in operations to pursue further growth opportunities. Once a firm is in the maturity stage, it is not necessary to consider higher short-term growth metrics in multi-stage DCF Models; rather, it is sufficient to analyze the cost of equity using a stable growth DCF Model with one sustainable growth rate.

Q. Is the aggregate growth rate of the economy typically a limiting factor for the terminal growth rate in the DCF Model?

A. Yes. A fundamental concept in finance is that no firm can grow forever at a rate higher than the growth rate of the economy in which it operates.[31] Thus, the terminal growth rate used in the DCF Model should not exceed the aggregate economic growth rate. This is especially true when the DCF Model is conducted on public utilities because these firms have defined service territories. As stated by Dr. Damodaran: "[i]f a firm is a purely domestic company, either because of internal constraints . . . or external constraints (such as those imposed by a government), the growth rate in the domestic economy will be the limiting value."[32]

In fact, it is reasonable to assume that a regulated utility would grow at a rate that is less than the U.S. economic growth rate. Unlike competitive firms, which might increase their growth by launching a new product line, franchising, or expanding into new and developing markets, utility operating companies with defined service territories cannot do any of these things to grow. Gross Domestic Product ("GDP") is one of the most widely used measures of economic production and is used to measure aggregate economic growth. According to the Congressional Budget Office's Budget Outlook, the long-term forecast for nominal U.S. GDP growth is 3.7%. [33] For mature companies in mature industries, such as utility companies, the terminal growth rate should not exceed nominal GDP growth.

---

[31] *See* Aswath Damodaran, *Investment Valuation: Tools and Techniques for Determining the Value of Any Asset* 306 (3rd ed., John Wiley & Sons, Inc. 2012).

[32] Aswath Damodaran, *Investment Valuation: Tools and Techniques for Determining the Value of Any Asset* 306 (3rd ed., John Wiley & Sons, Inc. 2012).

[33] Congressional Budget Office Long-Term Budget Outlook, https://www.cbo.gov/publication/59014.

Q. Did you also consider a variation of the DCF Model that incorporates analysts' growth rate projections?

A. Yes. Despite the shortcomings of this model, I present the results of analyst growth variation of my DCF Model because it is commonly presented in rate proceedings and considered by regulators when assessing a utility's authorized ROE. I also conducted this model to compare and contrast to the DCF Model presented by Ms. Bulkley which also incorporates analysts' growth rates (further discussed below).

Q. Please describe the results of your DCF Models?

A. For my DCF Models, I considered two variations: one using analysts' growth rates and one using the maximum sustainable growth rate. The results of these models are 9.3% and 6.8%, respectively.[34]

D. Response to Ms. Bulkley's DCF Model

Q. Please summarize the results of Ms. Bulkley's DCF analyses.

A. Ms. Bulkley's application of several variations of the DCF Model produced an average result of 10.42%.[35]None of Ms. Bulkley's DCF results indicate a 10.95% return on equity. In fact, Ms. Bulkley's highest DCF result was 10.45%.

Q. Does the result of Ms. Bulkley's DCF Model indicate a reasonable cost of equity estimate for PAWC?

A. No. The primary reason Ms. Bulkley's DCF results are overstated is her use of unsustainably high growth rates for the proxy group. Ms. Bulkley considered average

[34] Exhibit DJG-12.

[35] Direct Testimony of Ann Bulkley, Exh. No. 13-A, Sch. 1.

growth rates as high as 13% for individual companies in her proxy group.[36] Growth rates this high are significantly higher than projected annual U.S. GDP growth over the long run. Thus, they are not sustainable and produce unreasonably high DCF cost of equity indications. The analysts who publish projected growth rates in dividends and earnings are estimating the growth rate over the next few years (i.e., short-term growth). It is Ms. Bulkley who is incorporating these short-term growth rates as perpetual growth rates into her DCF Model. Growth rates that significantly exceed U.S. GDP growth are not sustainable. In other words, growth rates that exceed GDP effectively suggest that the individual earnings of a single company will eventually surpass U.S. GDP, which is impossible. As a result, Ms. Bulkley's DCF Model results overstate PAWC's cost of equity.

VII. CAPITAL ASSET PRICING MODEL ANALYSIS

Q. Please describe the CAPM.

A. The CAPM is a market-based model founded on the principle that investors expect higher returns for incurring additional risk.[37] The CAPM estimates this expected return. The various assumptions, theories, and equations involved in the CAPM are discussed further in Appendix B. Using the CAPM to estimate the cost of equity of a regulated utility is consistent with the legal standards governing the fair rate of return. The U.S. Supreme

[36] Id. at Sch. 4.

[37] William F. Sharpe, *A Simplified Model for Portfolio Analysis*, pp. 277-93 (Management Science IX 1963); *see also* John R. Graham, Scott B. Smart & William L. Megginson, *Corporate Finance: Linking Theory to What Companies Do*, p. 208 (3rd ed., South-Western Cengage Learning 2010).

Court has recognized that "the amount of *risk* in the business is a most important factor" in determining the allowed rate of return,[38] and that "the return to the equity owner should be commensurate with returns on investments in other enterprises having corresponding *risks*."[39] The CAPM is a useful model because it directly considers the amount of risk inherent in a business and directly measures the most important component of a fair rate of return analysis: Risk.

Q. Describe the inputs for the CAPM.

A. The basic CAPM equation requires only three inputs to estimate the cost of equity: (1) the risk-free rate; (2) the beta coefficient; and (3) the equity risk premium. Each input is discussed separately below.

A. The Risk-Free Rate

Q. Please explain the risk-free rate.

A. The first term in the CAPM is the risk-free rate (R_F). The risk-free rate is simply the level of return investors can achieve without assuming any risk. The risk-free rate represents the bare minimum return that any investor would require on a risky asset. Even though no investment is technically devoid of risk, investors often use U.S. Treasury securities to represent the risk-free rate because they accept that those securities essentially contain no default risk. The Treasury issues securities with different maturities, including short-term Treasury Bills, intermediate-term Treasury Notes, and long-term Treasury Bonds.

---

[38] *Wilcox*, 212 U.S. at 48 (emphasis added).

[39] *Hope Natural Gas Co*., 320 U.S. at 603 (emphasis added).

Q. Is it preferable to use the yield on long-term Treasury bonds for the risk-free rate in the CAPM?

A. Yes. In valuing an asset, investors estimate cash flows over long periods of time. Common stock is viewed as a long-term investment, and the cash flows from dividends are assumed to last indefinitely. As a result, short-term Treasury bill yields are rarely used in the CAPM to represent the risk-free rate. Short-term rates are subject to greater volatility and thus can lead to unreliable estimates. Instead, long-term Treasury bonds are usually used to represent the risk-free rate in the CAPM. I considered a 30-day average of daily Treasury yield curve rates on 30-year Treasury bonds in my risk-free rate estimate, which resulted in a risk-free rate of 4.66%.[40]

B. The Beta Coefficient

Q. How is the beta coefficient used in this model?

A. As discussed above, beta represents the sensitivity of a given security to movements in the overall market. The CAPM states that in efficient capital markets, the expected risk premium on each investment is proportional to its beta. Recall that a security with a beta greater than 1.0 is riskier than the market portfolio. Conversely, a security with a beta less than one is less risky than the market portfolio. An index such as the S&P 500 Index is used as a proxy for the market portfolio. The historical betas for publicly traded firms are published by various institutional analysts. Beta may also be calculated through a linear regression analysis, which provides additional statistical information about the relationship between a single stock and the market portfolio. The market portfolio of all stocks has a

[40] Exhibit DJG-7.

beta equal to one. Stocks with betas greater than one are relatively more sensitive to market risk than the average stock. In contrast, stocks with betas of less than one are less sensitive to market risk.

Q. Describe the source for the betas you used in your CAPM analysis.

A. I used betas recently published by Value Line Investment Survey. The beta for each proxy company is less than 1.0, and the average beta for the total proxy group is 0.78.[41] Thus, we have an objective measure to prove the well-known concept that utility stocks are less risky than the average stock in the market. While there is evidence suggesting that betas published by sources such as Value Line may actually overestimate the risk of utilities (and thus overestimate the CAPM), I used the betas published by Value Line in the interest of reasonableness.[42]

C. The Equity Risk Premium

Q. Describe the equity risk premium.

A. The final term of the CAPM is the equity risk premium ("ERP"), which is the required return on the market portfolio less the risk-free rate ($R_M - R_F$). In other words, the ERP is the level of return investors expect above the risk-free rate in exchange for investing in risky securities. Many experts agree that "the single most important variable for making investment decisions is the equity risk premium."[43] Likewise, the ERP is arguably the single most important factor in estimating the cost of capital in this matter. There are three

---

[41] Exhibit DJG-8.

[42] *See* Appendix B for a more detailed discussion of raw beta calculations and adjustments.

[43] Elroy Dimson, Paul Marsh & Mike Staunton, *Triumph of the Optimists: 101 Years of Global Investment Returns*, p. 4 (Princeton University Press 2002).

basic methods that can be used to estimate the ERP: (1) calculating a historical average; (2) taking a survey of experts; and (3) calculating the implied ERP. I will discuss each method in turn, noting advantages and disadvantages of these methods.

1. Historical Average

Q. Describe the historical equity risk premium.

A. The historical ERP may be calculated by simply taking the difference between returns on stocks and returns on government bonds over a certain period of time. Many practitioners rely on the historical ERP as an estimate for the forward-looking ERP because it is easy to obtain. However, there are disadvantages to relying on the historical ERP.

Q. What are the limitations of relying solely on a historical average to estimate the current or forward-looking ERP?

A. Some investors may rely on the historic ERP because it is convenient and easy to calculate. But what matters in the CAPM model is the current and forward-looking risk premium.[44] Some investors may think that a historic ERP provides some indication of what the prospective risk premium is; however, there is empirical evidence to suggest the prospective, forward-looking ERP is actually *lower* than the historical ERP. In a landmark publication on risk premiums around the world, *Triumph of the Optimists*, the authors suggest through extensive empirical research that the prospective ERP is lower than the historical ERP.[45] This is due in large part to what is known as "survivorship bias" or

[44] John R. Graham, Scott B. Smart & William L. Megginson, *Corporate Finance: Linking Theory to What Companies Do*, p. 330 (3rd ed., South-Western Cengage Learning 2010).

[45] Elroy Dimson, Paul Marsh & Mike Staunton, Triumph of the Optimists: 101 Years of Global Investment Returns, p. 34 (Princeton University Press 2002).

"success bias" — a tendency for failed companies to be excluded from historical indices.[46] From their extensive analysis, the authors make the following conclusion regarding the prospective ERP:

> The result is a forward-looking, geometric mean risk premium for the United States . . . of around 2½ to 4 percent and an arithmetic mean risk premium . . . that falls within a range from a little below 4 to a little above 5 percent.[47]

Indeed, these results are lower than many reported historical risk premiums. Other noted experts agree:

> The historical risk premium obtained by looking at U.S. data is biased upwards because of survivor bias. . . The true premium, it is argued, is much lower. This view is backed up by a study of large equity markets over the twentieth century (*Triumph of the Optimists*), which concluded that the historical risk premium is closer to 4%.[48]

Regardless of the variations in historic ERP estimates, many leading scholars and practitioners agree that simply relying on a historic ERP to estimate the risk premium going forward is not ideal. Fortunately, "a naïve reliance on long-run historical averages is not the only approach for estimating the expected risk premium."[49]

Q. Did you rely on the historical ERP as part of your CAPM analysis in this case?

A. No. Due to the limitations of this approach, I primarily relied on the ERP reported in expert surveys and the implied ERP method discussed below.

---

[46] *Id*. at 194.

[47] *Id*.

[48] Aswath Damodaran, *Equity Risk Premiums: Determinants, Estimation and Implications – The 2015 Edition*, p. 17 (New York University 2015).

[49] John R. Graham, Scott B. Smart & William L. Megginson, *Corporate Finance: Linking Theory to What Companies Do*, p. 330 (3rd ed., South Western Cengage Learning 2010).

2. Expert Surveys

Q. Describe the expert survey approach to estimating the ERP.

A. As its name implies, the expert survey approach to estimating the ERP involves conducting a survey of experts including professors, analysts, chief financial officers, and other executives around the country and asking them what they think the ERP is. The IESE Business School conducts such a survey each year. Its 2025 expert survey reported an average ERP of 5.5%.[50]

3. Implied Equity Risk Premium

Q. Describe the implied equity risk premium approach.

A. The third method of estimating the ERP is arguably the best. The implied ERP relies on the stable growth model proposed by Gordon, often called the "Gordon Growth Model," which is a basic stock valuation model that has been widely used in finance for many years.[51] This model is a mathematical derivation of the DCF Model. In fact, the underlying concept in both models is the same: The current value of an asset is equal to the present value of its future cash flows. Instead of using this model to determine the discount rate of one company, we can use it to determine the discount rate for the entire market by substituting the inputs of the model. Specifically, instead of using the current stock price (P_0), we will use the current value of the S&P 500 (V_{500}). Instead of using the dividends of a single firm, we will consider the dividends paid by the entire market. Additionally,

---

[50] Pablo Fernandez, et al., *Survey: Market Risk Premium and Risk-Free Rate used for 54 countries in 2025* (IESE Business School 2024), copy available at https://papers.ssrn.com/sol3/papers.cfm?abstract_id=5260463
IESE Business School is the graduate business school of the University of Navarra.

[51] Myron J. Gordon and Eli Shapiro, *Capital Equipment Analysis: The Required Rate of Profit* 102-10 (Management Science Vol. 3, No. 1 Oct. 1956).

we should consider potential dividends. In other words, stock buybacks should be considered in addition to paid dividends, as stock buybacks represent another way for the firm to transfer free cash flow to shareholders. Focusing on dividends alone without considering stock buybacks could understate the cash flow component of the model, and ultimately understate the implied ERP. The market dividend yield plus the market buyback yield gives us the gross cash yield to use as our cash flow in the numerator of the discount model. This gross cash yield is increased each year over the next five years by the growth rate. These cash flows must be discounted to determine their present value. The discount rate in each denominator is the risk-free rate (R_F) plus the discount rate (K). Equation 1 below shows how the implied return is calculated. Since the current value of the S&P is known, we can solve for K, the implied market return.[52]

Equation 1:
Implied Market Return

$$V_{500} = \frac{CY_1(1+g)^1}{(1+R_F+K)^1} + \frac{CY_2(1+g)^2}{(1+R_F+K)^2} + \cdots + \frac{CY_5(1+g)^5 + TV}{(1+R_F+K)^5}$$

where:

V_{500}	=	*current value of index (S&P 500)*
$CY_{1\text{-}5}$	=	*average cash yield over last five years (includes dividends and buybacks)*
g	=	*compound growth rate in earnings over last five years*
R_F	=	*risk-free rate*
K	=	*implied market return (this is what we are solving for)*
TV	=	*terminal value = CY_5 (1+R_F) / K*

The discount rate is called the "implied" return because it is based on the current value of the index as well as the value of free cash flow to investors projected over the next five years. Thus, based on these inputs, the market is "implying" the expected return; or in

[52] *See* Exhibit DJG-9 for detailed calculation.

other words, based on the current value of all stocks (the index price) and the projected value of future cash flows, the market is telling us the return expected by investors for investing in the market portfolio. After solving for the implied market return (K), we simply subtract the risk-free rate from it to arrive at the implied ERP as shown in the following equation.

Equation 2:
Implied Equity Risk Premium

$$Implied\ Expected\ Market\ Return - R_F = Implied\ ERP$$

Q. Discuss the results of your implied ERP calculation.

A. After collecting data for the index value, operating earnings, dividends, and buybacks for the S&P 500 over the past six years, I calculated the dividend yield, buyback yield, and gross cash yield for each year. I also calculated the compound annual growth rate (g) from operating earnings. I used these inputs, along with the risk-free rate and current value of the index to calculate a current required return on the U.S. equity market of 9.7%. I subtracted the risk-free rate to arrive at the implied equity risk premium of 5.0%.[53] Dr. Damodaran, one of the world's leading experts on the ERP, promotes the implied ERP method discussed above. He calculates monthly and annual implied ERPs with this method and publishes his results. Dr. Damodaran's average ERP estimate for December 2025 using several implied ERP variations was 4.2%.[54] Additionally, Kroll (formerly Duff & Phelps) recently published an ERP estimate of 5.0%.[55]

---

[53] *Id*.

[54] http://pages.stern.nyu.edu/~adamodar/

[55] Kroll, Cost of Capital Inputs Updated to Reflect Heightened Uncertainty in Global Economy (April 15, 2025).

Q. What are the results of your final ERP estimate?

A. For the final ERP estimate I used in my CAPM analysis, I considered the results of the ERP surveys, the estimated ERP reported by Kroll, the estimated ERP calculated by Dr. Damodaran, and the implied ERP based on my calculations.[56] The results are presented in the following figure:

Figure 7:
Equity Risk Premium Results

IESE Business School Survey	5.5%
Kroll (Duff & Phelps) Report	5.0%
Damodaran (average)	4.4%
Garrett	5.0%
Average	**5.0%**

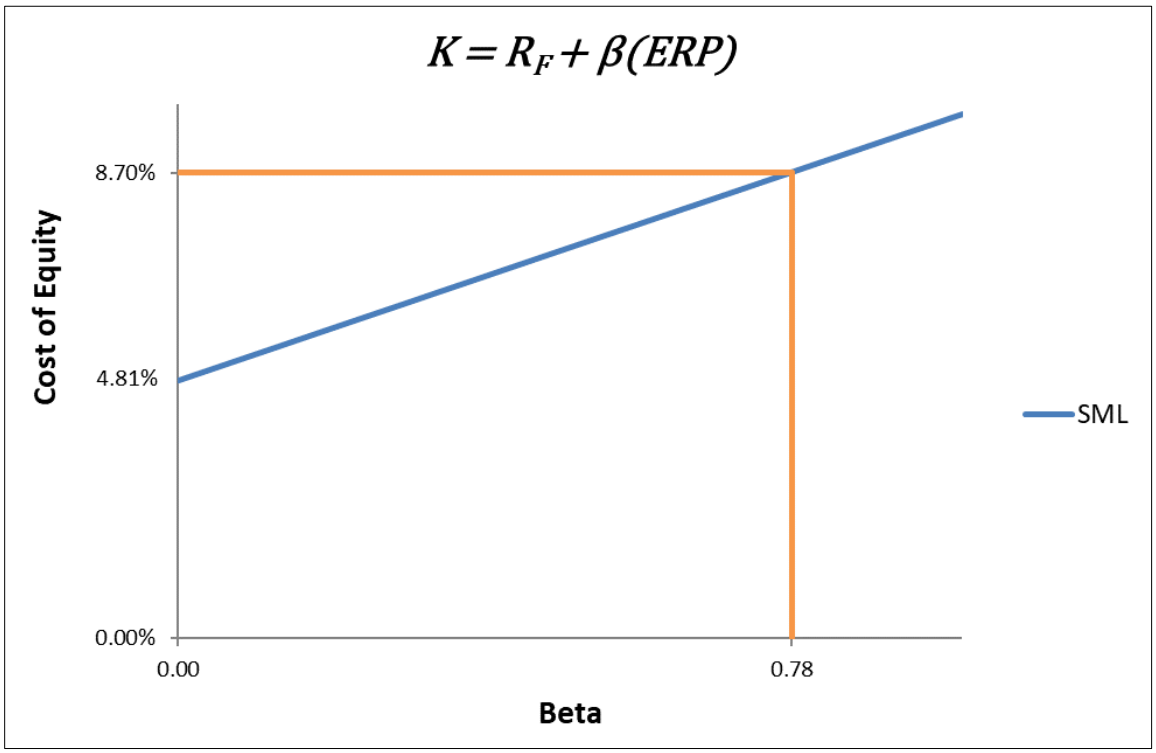
I used the average ERP of 5.0% from these sources in my CAPM.

Q. Please explain the final results of your CAPM analysis.

A. Using the inputs for the risk-free rate, beta, and equity risk premium discussed above, I estimate that PAWC's CAPM cost of equity is 8.7%. The CAPM can be displayed graphically through what is known as the Security Market Line ("SML"). The figure below shows the expected return (cost of equity) on the y-axis, and the average beta for the proxy group on the x-axis. The SML intercepts the y-axis at the level of the risk-free rate. The slope of the SML is the equity risk premium.

[56] *See also* Exhibit DJG-10.

Figure 8:
CAPM Graph



The SML provides the rate of return that will compensate investors for the beta risk of that investment. Thus, at an average beta of 0.78 for the proxy group, the CAPM result is 8.7%.

D. Response to Ms. Bulkley's CAPM Analysis

Q. Please summarize the results of Ms. Bulkley's CAPM analysis

A. Ms. Bulkley's CAPM analysis produced results ranging from 11.15% - 11.40%.[57] In addition to the CAPM, Ms. Bulkley also conducted another variation of the CAPM called the "empirical" CAPM ("ECAPM"), which produced even higher results.

[57] Direct Testimony of Ann Bulkley, p. 44, Fig. 9.

Q. Do the results of Ms. Bulkley's CAPM and other risk premium analyses indicate a reasonable cost of equity estimate for PAWC?

A. No. The primary factors which cause Ms. Bulkley's CAPM result to be unreasonably high is her use of an unreasonably high ERP estimate. Ms. Bulkley's other risk premium analysis is not a valid cost of equity model, and it relies on outdated information. I discuss these issues in more detail below.

1. Equity Risk Premium

Q. Did Ms. Bulkley rely on a reasonable measure for the ERP?

A. No. Ms. Bulkley used an ERP estimate as high as 8.94% in her CAPM analysis.[58] The ERP is one of three inputs in the CAPM equation, and it is one of the most important factors for estimating the cost of equity in this case. As discussed above, I used three widely accepted methods for estimating the ERP, including consulting expert surveys, calculating the implied ERP based on aggregate market data, and considering the ERPs published by reputable analysts. The average ERP calculated from my research is only 4.9%.

Q. Please discuss and illustrate how Ms. Bulkley's ERP compares with other estimates for the ERP.

A. The 2025 IESE Business School expert survey reports an average ERP of 5.5%. Similarly, Kroll (formerly Duff & Phelps) recently estimated an ERP of 5.0%. Dr. Damodaran, one of the leading experts on the ERP, recently estimated an ERP of only 4.2%.[59] The chart in

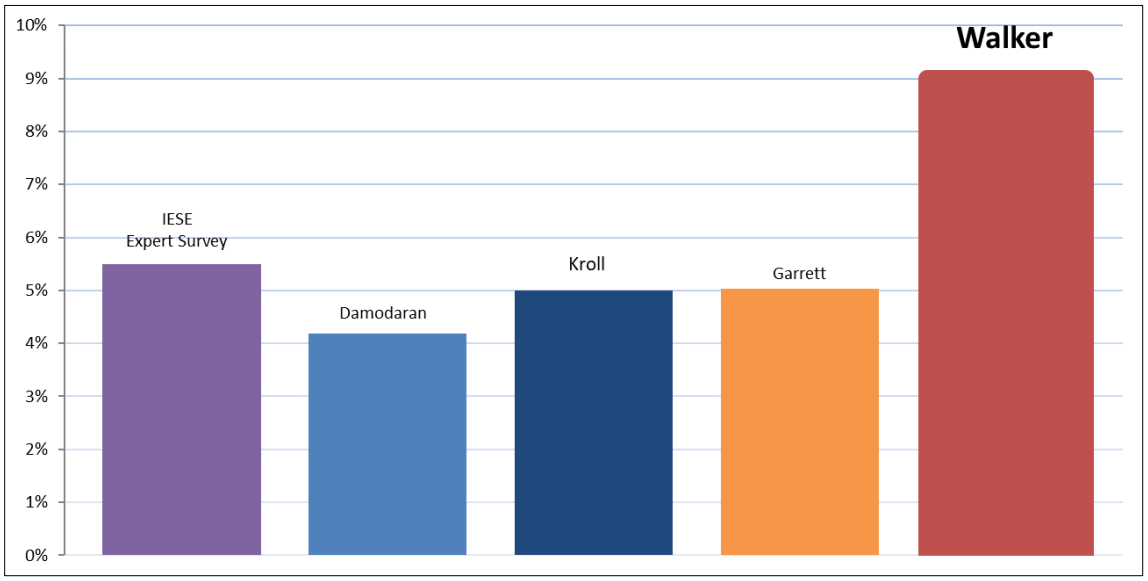
---

[58] *Id*. at Sch. 6.

[59] Aswath Damodaran, *Implied Equity Risk Premium Update*, DAMODARAN ONLINE, http://pages.stern.nyu.edu/~adamodar/. Dr. Damodaran estimates several ERPs using various assumptions.

the following figure illustrates that Ms. Bulkley's ERP estimate higher than other reasonable, objective estimates for the ERP.[60]

Figure 9:
Equity Risk Premium Comparison



When compared with other independent sources for the ERP, as well as my estimate, Ms. Bulkley's ERP estimate is clearly too high. In fact, it is more than 400 basis points above the average ERP from the other sources I relied on. This factor contributes to Ms. Bulkley's CAPM results being overstated.

2. Empirical CAPM

Q. Please summarize Ms. Bulkley's ECAPM application.

A. Ms. Bulkley's ECAPM is based on the premise that the standard CAPM underestimates the return required from low-beta securities, such as those of the utility proxy group.

[60] The ERP estimated by Dr. Damodaran is the highest of several ERP estimates under slightly differing assumptions.

Q. Do the results of Ms. Bulkley's ECAPM indicate a reasonable cost of equity estimate for PAWC?

A. No. The premise of Ms. Bulkley's ECAPM is that the standard CAPM underestimates the return required from low-beta securities. There are several problems with this concept. First, the Value Line betas both Ms. Bulkley and I used in the real CAPM have already been adjusted upward to account for the theory that low-beta stocks might have a tendency to be underestimated. Thus, there is no need to make an additional, upward adjustment to these betas. Second, there is empirical evidence suggesting that the type of beta-adjustment method used by Value Line actually overstates betas from consistently low-beta industries like utilities. According to this research, it is better to employ an adjustment method that adjusts raw betas toward an industry average, rather than the market average, which ultimately would result in betas that are lower than those published in Value Line. Finally (and most pertinently), Ms. Bulkley's ECAPM still suffers from the same overestimated ERP input discussed above.

VIII. RATE OF RETURN CONCLUSION

Q. Please summarize your analyses and conclusions regarding PAWC's cost of equity.

A. A utility's awarded ROE should be based on its cost of equity, which can be estimated using various financial models. In estimating PAWC's cost of equity, I performed a cost of equity analysis on a proxy group of utility companies using the two most widely used and widely-accepted financial models for calculating cost of equity in utility rate proceedings: the CAPM and DCF Model. I conducted two variations of both the CAPM and DCF Model. The results are shown in the figure below.

Figure 10:
Cost of Equity Model Summary

Model	Cost of Equity
Capital Asset Pricing Model	8.7%
DCF Model (Analyst Growth)	9.3%
DCF Model (Sustainable Growth)	6.8%
Model Average	8.3%
Recommended ROE	**8.7%**

Q. Please summarize the impact the authorized ROE has on the revenue requirement in this case.

A. PAWC's current authorized ROE is 9.45%, which was authorized less than two years ago. As discussed in my testimony, the ROE of 10.95% proposed by the Company is not supported by any market-based evidence. In other words, the financial models do not support a significant increase in the authorized ROE as proposed by the Company. In fact, these models support a notable decrease in the Company's authorized ROE. Although it is not my recommendation, if the Company were awarded a 9.45% ROE, it would reduce the Company's proposed rate increase to $92.22 million.

Q. Ms. Bulkley also suggests that her proposed ROE was influence by the performance of Company management. What is your response?

A. Although Ms. Bulkley did not make a specific adjustment for management performance, she states that she considered it when setting the overall range for her recommended

ROE.[61] The performance of company management should not be a factor when determining a fair authorized ROE for the Company. As discussed in my testimony, the authorized ROE should be based on the cost of equity. The cost of equity is not impacted by management performance, which is a firm-specific risk factor. In other words, investors do not expect an additional return for good managerial performance. If anything, above-average managerial performance for a particular company would have a decreasing effect on the cost of equity due to its risk reducing effect (though still primarily firm-specific). Regardless, the Commission should not consider managerial performance when setting a fair ROE in this case and rather focus on the results of the financial modeling.

Q. Please summarize your recommendation to the Commission regarding PAWC's authorized rate of return.

A. I am recommending an authorized ROE of 8.7% for PAWC.

Q. Please summarize your rate of return recommendation.

A. My recommendations are summarized in the following table.[62]

[61] Direct Testimony of Ann Bulkley, p. 64.

[62] *See also* Exhibit DJG-13.

Figure 11:
Awarded Rate of Return Recommendation

Water Operations			
Capital Component	Proposed Ratio	Cost Rate	Weighted Cost
Long-term Debt	43.7%	4.71%	2.06%
Common Equity	56.3%	8.70%	4.90%
Total	100.0%		6.96%

Wastewater Operations			
Capital Component	Proposed Ratio	Cost Rate	Weighted Cost
Long-term Debt	41.6%	4.71%	1.96%
WW-Specific LTD	6.88%	2.20%	0.15%
Common Equity	51.5%	8.70%	4.48%
Total	100.0%		6.59%

As shown in this figure, adopting my proposed ROE would result in a weighted average authorized rate of return of 6.96% for water operations and 6.59% for wastewater operations.

PART TWO: DEPRECIATION

IX. REGULATORY STANDARDS

Q. Please discuss the standard by which regulated utilities are allowed to recover depreciation expense.

A. In *Lindheimer v. Illinois Bell Telephone Co.*, the U.S. Supreme Court stated "depreciation is the loss, not restored by current maintenance, which is due to all the factors causing the ultimate retirement of the property. These factors embrace wear and tear, decay, inadequacy, and obsolescence."[63] The *Lindheimer* Court also recognized that the original cost of plant assets, rather than present value or some other measure, is the proper basis for calculating depreciation expense.[64] Moreover, the *Lindheimer* Court found:

> [T]he company has the burden of making a convincing showing that the amounts it has charged to operating expenses for depreciation have not been excessive. That burden is not sustained by proof that its general accounting system has been correct. The calculations are mathematical, but the predictions underlying them are essentially matters of opinion.[65]

Thus, the Commission must ultimately determine if PAWC has met its burden of proof by making a convincing showing that its proposed depreciation rates are not excessive.

---

[63] *Lindheimer v. Illinois Bell Tel. Co.*, 292 U.S. 151, 167 (1934).

[64] *Id*. (Referring to the straight-line method, the *Lindheimer* Court stated that "[a]ccording to the principle of this accounting practice, the loss is computed upon the actual cost of the property as entered upon the books, less the expected salvage, and the amount charged each year is one year's pro rata share of the total amount."). The original cost standard was reaffirmed by the Court in *Federal Power Commission v. Hope Natural Gas Co.*, 320 U.S. 591, 606 (1944). The *Hope* Court stated: "Moreover, this Court recognized in [*Lindheimer*], supra, the propriety of basing annual depreciation on cost. By such a procedure the utility is made whole and the integrity of its investment maintained. No more is required."

[65] *Id*. at 169.

Q. Please discuss how your proposed depreciation rates impact the Company's depreciation expense.

A. Similar to the Company's depreciation study, my testimony and exhibits presents proposed depreciation rates for each account included in the depreciation study. These depreciation rates were developed based on plant balances at three different dates (June 30th of 2025, 2026, and 2027). The depreciation rates are multiplied by the plant balances of each account to calculate the annual depreciation expense. Depreciation expense is different than the depreciation "reserve," which is a term referring to the accumulated depreciation balance. Under the remaining life depreciation method, the reserve acts as a deduction from plant in order to calculate the future dollars to be recovered for each account.

A. Depreciation System

Q. Please discuss the definition and general purpose of a depreciation system, as well as the specific depreciation system you employed for this project.

A. The legal standards set forth above do not mandate a specific procedure for conducting depreciation analysis. These standards, however, direct that analysts use a system for estimating depreciation rates that will result in the "systematic and rational" allocation of capital recovery for the utility. Over the years, analysts have developed "depreciation systems" designed to analyze grouped property in accordance with this standard. A depreciation system may be defined by several primary parameters, including: 1) a method of allocation; 2) a procedure for applying the method of allocation; 3) a technique of applying the depreciation rate; and 4) a model for analyzing the characteristics of vintage

property groups.[66] In this case, I used the straight-line method, the average life group procedure, the remaining life technique, and the broad group model.[67]

Q. Did both Mr. Spanos and you use the same depreciation system?

A. No. Pertinently, Mr. Spanos used the Equal Life Group ("ELG") method instead of the average life group ("ALG") method. I discuss the differences between these methods in more detail below.

B. Average Life vs Equal Life Method

Q. Explain the primary difference between the ALG and ELG methods.

A. In the ALG method, a constant accrual rate based on the average life of all property in the group is applied to the surviving property.[68] In the ELG method, property is divided into subgroups, called vintages, that each have a common life. Pertinently, the ELG method results in higher depreciation rates in the early years of a vintage's life. This fact is confirmed by authoritative depreciation literature. According to Wolf:

> When contrasted with the average life procedure, the equal life group procedure results in annual accruals that are higher during the early years and lower in the later years.[69]

The NARUC Public Utility Depreciation Practices also makes the same conclusion about the equal life procedure:

---

[66] *See* Wolf & W. Chester Fitch, Depreciation Systems 70, 140 (Iowa State University Press 1994).

[67] *See* Appendix C for further discussion. The depreciation system will ultimately be used to develop depreciation rates. The depreciation rate is applied to the plant balance for each account to calculate the annual depreciation expense changed to customers. This is a different concept than the accumulated depreciation balance, or depreciation "reserve." The depreciation reserve acts as a reduction to rate base.

[68] *Id*. at 74-75.

[69] *Id*. at 93 (emphasis added).

> [T]he ELG method results in annual accruals that are higher during the early years of a vintage's life, thereby causing an increase in depreciation expense and revenue requirements during these years.[70]

In contrast, use of the average life results in the same depreciation rate applied to each age interval.

Q. Please summarize your recommendation regarding the depreciation system that should be used to calculate PAWC's depreciation rates.

A. As I will demonstrate in my testimony, the ALG method results in a fairer application of depreciation rates compared to the ELG method given the realities of ratemaking proceedings. Mr. Spanos's decision to use the ELG method unnecessarily increases the *annual* depreciation accrual charged to customers by approximately $1.4 million. The depreciation "accrual" is similar to the concept of depreciation "expense." I use the term "accrual" to generally describe the amount of dollars resulting from applying a depreciation rate to historical plant balances as of the depreciation study date. The depreciation expense is the annual accrual amount that will actually be changed to customers, and may be based on plant balances at a different date. In other words, even if no other adjustments are made to the depreciation study except the adoption of the majority-view ALG method, it would result in a decrease of $1.4 million to PAWC's proposed annual depreciation accrual. The Commission should adopt my proposed depreciation rates, which were calculated using the ALG method.

[70] National Association of Regulatory Utility Commissioners, *Public Utility Depreciation Practices* 176 (NARUC 1996) (emphasis added).

Q. Based on your experience in other regulatory jurisdictions and knowledge of the industry, which method is more commonly used?

A. In my experience, the ALG method is used by analysts and adopted by regulators in the vast majority of jurisdiction and in the vast majority of cases.

Q. Does Mr. Spanos typically use the ALG method in depreciation studies you have reviewed?

A. In the vast majority of cases in which I have reviewed Mr. Spanos's depreciation studies, he uses the ALG method.

Q. In the pending application of PPL Electric Utilities Corporation before the Commission (Docket No. R-2025-3057164), is Mr. Spanos proposing depreciation rates based on the ALG method?

A. Yes, Mr. Spanos proposed ALG depreciation rates in PPL's pending application. Since it is unlikely any intervening party will oppose the ALG method in that case, the Commission will likely be adopting ALG depreciation rates in the PPL case.

Q. Would the application of ELG depreciation rates in this case result in intergenerational inequity to current customers?

A. Yes, in my opinion it would. Essentially, under the ELG method, current customers would pay a disproportionated higher share of costs relative to future customers. Proponents of the ELG method often argue that the ELG method is better for customers in the long run because the higher depreciation rates resulting from the ELG method have a decreasing effect on rate base. Although it is technically correct that higher depreciation expense in the present would, all else held constant, result in lower depreciation rates in the future, that does not resolve the issue of intergenerational inequity for current customers. If paying down rate base was the ultimate goal, then current customers could pay off the utility's entire undepreciated plant balance now, and future customers would have much lower rates for many years. That is mathematically accurate, but clearly inequitable. The practical

effect of ELG as contrasted with other methods is to accelerate the recovery of capital at the expense of current customers.

Q. In order to be applied correctly, would ELG depreciation rates need to be adjusted every year?

A. Yes. Unlike the ALG method, depreciation rates calculated under the ELG method would need to be updated every year in order to be technically accurate. This concept is highlighted further in the examples below.

Q. Have you successfully argued for a change from the ELG method to ALG method in another jurisdiction?

A. Yes. In Duke Energy Indiana's ("DEI") 2020 rate case, the company proposed ELG depreciation rates, which had been adopted by the Indiana commission in previous cases. In that case, I and other parties argued that the ALG method should be used. The Indiana Commission found as follows:

> First, with respect to the question of whether the ELG or ALG method should be used, we find the evidence presented by OUCC witness Mr. Garrett and Industrial Group witness Mr. Andrews persuasive, as both witnesses showed that the ELG method results in unreasonably high depreciation rates. ALG depreciation rates result in systematical and rational cost recovery with near term customer rate relief and full cost recovery of utility investments. While we have determined in the past that the ELG methodology was appropriate and acknowledge the weight given to precedent in many prior decisions, we always evaluate each case as it comes before us and do not need to approve the same methodology based on prior decisions, especially in light of a changed landscape. The use of ELG in a higher than average investment cycle has the effect of unnecessarily increasing the near term depreciation expense as compared to the use of ALG.[71]

In the DEI case, the Commission correctly noted that the ELG method can result in unreasonably high depreciation rates. In order for the ELG method to be properly applied,

[71] Cause No. 45253, Order of the Commission, p. 90, (June 29, 2020).

a utility would need to revise depreciation each year. When a utility has made substantial, recent capital investments, depreciation expense calculated under the ELG method will always be higher than the expense calculated under the ALG method. The larger the amount of the investments, the larger the discrepancy will be between the two procedures.

Q. Are you aware of other Public Utility Commissions that have rejected the use of ELG?

A. Yes. The Kentucky Public Service Commission ("Kentucky PSC") found that the ELG procedure front-loads depreciation expense in earlier years and decreases it in the later years of an asset's depreciation life, creating a mismatch of revenues and expenses. The Kentucky PSC states reasoning for rejecting the ELG is as follows:

> Duke Kentucky proposes, as part of developing its depreciation rates, the continued use of the ELG procedure. The Attorney General recommends the Commission adopt the ALG procedure in developing Duke Kentucky's depreciation rates. The Attorney General contends that the ALG methodology is the predominant method that is used in the electric industry for developing depreciation rates. The Attorney General contends that, under the ELG methodology, the capital recovery periods are accelerated and shortened and, thus, the depreciation rates are greater than if the ALG procedure was used. The Attorney General argues that the ALG procedure is as accurate as the ELG procedure and the ALG procedure smooths the data so that the depreciation rates for the group of assets tend to remain constant. Use of the ALG procedure will result in a decrease in Duke Kentucky's depreciation expense of $6.920 million.
>
> Duke Kentucky requested an increase in depreciation expense of $6.920 million, based on its request to utilize the ELG procedure for computing depreciation rates. As was discussed in the rate base section of this Order, this Commission has found that the ELG procedure does not accurately match revenues and expenses, is front-loaded, and Duke Kentucky is the only Kentucky based utility that utilizes the ELG procedure for computing depreciation rates.
>
> Regulatory accounting requires the proper matching of revenues and expense in order to produce fair, just and reasonable rates. The Commission finds Duke Kentucky's proposed ELG procedure does not meet that criteria

and that Duke Kentucky's depreciation expense should be reduced by $6.920 million.[72]

Q. Please provide an example of how the ELG method results in higher depreciation rates in earlier years relative to the ALG method.

A. For the following illustration, assume a group of property containing two units, one with an original cost of $4,000 and a 4-year life and the second with an original cost of $6,000 and an 8-year life.[73] Thus, the average life of this group is 6.4 years.[74] Under the ALG method, the depreciation rate is 15.625% per year (1/6.4 = 15.625%). The following table illustrates this example.

Figure 1:
ALG Procedure

Year	Balance	Retired	Rate	Annual Accrual	Accum. Deprec.
1974	10000		15.625%	1563	0
1975	10000		15.625%	1563	1563
1976	10000		15.625%	1563	3125
1977	10000	4000	15.625%	1563	4688
1978	6000		15.625%	938	2250
1979	6000		15.625%	938	3188
1980	6000		15.625%	938	4125
1981	6000	6000	15.625%	938	5063
1982	0				0

As shown in the annual accrual column above, the full $10,000 is depreciated after eight years. Now, considering the same assumptions presented above, the following tables illustrate the same scenario except that the rate is calculated under the ELG method.

[72] In the Matter of: Electronic Application of Duke Energy Kentucky, Inc., Kentucky PSC, Order at pages 26 27, Case No. 2017-00321, (https://psc.ky.gov/pscscf/2017%20Cases/2017-00321//20180413_PSC_ORDER.pdf).

[73] *See* Wolf & W. Chester Fitch, Depreciation Systems 82 (Iowa State University Press 1994).

[74] AL = [($4,000 x 4) + ($6,000 x 8)] / $10,000 = 6.4 years.

Figure 2:
ELG Procedure

Year	Balance	Retired	Rate	Annual Accrual	Accum. Deprec.
1974	10000		17.50%	1750	0
1975	10000		17.50%	1750	1750
1976	10000		17.50%	1750	3500
1977	10000	4000	17.50%	1750	5250
1978	6000		12.50%	750	3000
1979	6000		12.50%	750	3750
1980	6000		12.50%	750	4500
1981	6000	6000	12.50%	750	5250
1982	0				0

As with the ALG example presented above, the full $10,000 investment is still fully depreciated after eight years. However, there are higher rates and accrual amounts during the earlier years. The reason there is a 17.5% depreciation rate instead of a 15.625% depreciation rate in the early years is because the two units in this group are treated separately under the ELG method. The following table shows how the rates in this example are calculated.

Figure 3:
ELG Rate Development

				Annual Accrual	
Group	Group Amount	Group Life	Group Rate	1974-77	1978-81
A	4000	4	25.00%	1000	
B	6000	8	12.50%	750	750
Annual accruals				1750	750
Balance during interval				10000	6000
Annual accrual rate %				17.50%	12.50%

This example is simplified in an attempt to explain the complexities of the ELG method. In this example, the higher rate of 17.5% stayed the same for four years because there are only two units in this simple example, and the rate drops to 12.5% after the first unit retires.

X. SERVICE LIFE ANALYSIS

Q. Describe the methodology used to estimate the service lives of grouped depreciable assets.

A. The process used to study industrial property retirement is rooted in the actuarial process used to study human mortality. Just as actuarial analysts study historical human mortality data to predict how long a group of people will live, depreciation analysts study historical plant data to estimate the average lives of property groups. The most common actuarial method used by depreciation analysts is called the "retirement rate method." In the retirement rate method, original property data, including additions, retirements, transfers, and other transactions, are organized by vintage and transaction year.[75] The retirement rate method is ultimately used to develop an "observed life table," ("OLT") which shows the percentage of property surviving at each age interval. This pattern of property retirement is described as a "survivor curve." The survivor curve derived from the observed life table, however, must be fitted and smoothed with a complete curve in order to determine the ultimate average life of the group.[76] The most widely used survivor curves for this curve

[75] The "vintage" year refers to the year that a group of property was placed in service (aka "placement" year). The "transaction" year refers to the accounting year in which a property transaction occurred, such as an addition, retirement, or transfer (aka "experience" year).

[76] *See* Appendix C for a more detailed discussion of the actuarial analysis used to determine the average lives of grouped industrial property.

fitting process were developed at Iowa State University in the early 1900s and are commonly known as the "Iowa curves."[77] A more detailed explanation of how the Iowa curves are used in the actuarial analysis of depreciable property is set forth in Appendix C.

Q. Describe how you analyzed PAWC's historical retirement data in order to determine the most reasonable Iowa curve to apply to each account.

A. PAWC's aged property data is used to create OLTs for each account. The data points on the OLT can be plotted to form a curve (the "OLT curve"). The OLT curve is not a theoretical curve; rather, it is actual observed data from PAWC's records that indicate the rate of retirement for each property group. An OLT curve by itself, however, is rarely a smooth curve, and is often not a "complete" curve (i.e., it does not end at zero percent surviving). In order to calculate average life (the area under a curve), a complete survivor curve is required. The Iowa curves are empirically derived curves based on the extensive studies of the actual mortality patterns of many different types of industrial property. The curve-fitting process involves selecting the best Iowa curve to fit the OLT curve. This can be accomplished through a combination of visual and mathematical curve-fitting techniques, as well as professional judgment.

Q. Is mathematical fitting an important part of the curve-fitting process?

A. Yes. Mathematical curve fitting promotes objective, unbiased results. While mathematical curve-fitting is important, it may not always yield the optimum result. Simply determining which Iowa curve best fits an OLT curve ignores professional judgment that may be needed for specific situations. For example, if there is insufficient historical data in a particular

[77] *See* Appendix B for a more detailed discussion of the Iowa curves.

account and the OLT curve derived from that data is relatively short and flat, the mathematically "best" curve may be one with a very long average life. However, when there is sufficient data available, mathematical curve fitting can be used as part of an objective service life analysis.

Q. Should every portion of the OLT curve be given equal weight?

A. Not necessarily. Many analysts have observed that the points towards the end of OLT curves may often have less analytical value than other portions of the curve. Indeed, "[p]oints at the end of the curve are often based on fewer exposures and may be given less weight than points based on larger samples. The weight placed on those points will depend on the size of the exposures."[78] In accordance with this standard, an analyst may decide to truncate the tail end of the OLT curve at a certain percent of initial exposures, such as one percent. Using this approach puts greater emphasis on the most valuable portions of the curve. For my analysis in this case, I not only considered the entirety of the OLT curve, but also conducted further analyses that involved fitting Iowa curves to the most significant part of the OLT curve for certain accounts.

Q. Are you recommending service life adjustments in this case based on the following analyses?

A. No. In this case, I believe it is more important for the Commission to focus on the ALG vs ELG issue and limit the accelerated form of cost recovery that would unfairly burden customers under the ELG method proposed by Mr. Spanos.

[78] Wolf & W. Chester Fitch, Depreciation Systems 46 (Iowa State University Press 1994).

Q. What is your recommendation to the Commission regarding PAWC's depreciation rates.

A. I recommend the Commission adopt the depreciation rates presented in my exhibits, which were calculated using the same service life parameters proposed in PAWC's depreciation study but using the ALG method instead of the ELG method.

Q. Does this conclude your direct testimony?

A. Yes.

APPENDIX A:

DISCOUNTED CASH FLOW MODEL THEORY

The Discounted Cash Flow ("DCF") Model is based on a fundamental financial model called the "dividend discount model," which maintains that the value of a security is equal to the present value of the future cash flows it generates. Cash flows from common stock are paid to investors in the form of dividends. There are several variations of the DCF Model. In its most general form, the DCF Model is expressed as follows:[1]

Equation 1:
General Discounted Cash Flow Model

$$P_0 = \frac{D_1}{(1+k)} + \frac{D_2}{(1+k)^2} + \cdots + \frac{D_n}{(1+k)^n}$$

where: P_0 = *current stock price*
$D_1 \ldots D_n$ = *expected future dividends*
k = *discount rate / required return*

The General DCF Model would require an estimation of an infinite stream of dividends. Since this would be impractical, analysts use more feasible variations of the General DCF Model, which are discussed further below.

The DCF Models rely on the following four assumptions:

1. Investors evaluate common stocks in the classical valuation framework; that is, they trade securities rationally at prices reflecting their perceptions of value;
2. Investors discount the expected cash flows at the same rate (K) in every future period;

[1] *See* Zvi Bodie, Alex Kane & Alan J. Marcus, *Essentials of Investments* 410 (9th ed., McGraw-Hill/Irwin 2013).

3. The K obtained from the DCF equation corresponds to that specific stream of future cash flows alone; and

4. Dividends, rather than earnings, constitute the source of value.

The General DCF can be rearranged to make it more practical for estimating the cost of equity. Regulators typically rely on some variation of the Constant Growth DCF Model, which is expressed as follows:

Equation 2:
Constant Growth Discounted Cash Flow Model

$$K = \frac{D_1}{P_0} + g$$

where: K = *discount rate / required return on equity*
D_1 = *expected dividend per share one year from now*
P_0 = *current stock price*
g = *expected growth rate of future dividends*

Unlike the General DCF Model, the Constant Growth DCF Model solves directly for the required return (K). In addition, by assuming that dividends grow at a constant rate, the dividend stream from the General DCF Model may be essentially substituted with a term representing the expected constant growth rate of future dividends (g). The Constant Growth DCF Model may be considered in two parts. The first part is the dividend yield (D_1/P_0), and the second part is the growth rate (g). In other words, the required return in the DCF Model is equivalent to the dividend yield plus the growth rate.

In addition to the four assumptions listed above, the Constant Growth DCF Model relies on four additional assumptions as follows:[2]

[2] *Id.* at 254-56.

1. The discount rate (K) must exceed the growth rate (g);
2. The dividend growth rate (g) is constant in every year to infinity;
3. Investors require the same return (K) in every year; and
4. There is no external financing; that is, growth is provided only by the retention of earnings.

Because the growth rate in this model is assumed to be constant, it is important not to use growth rates that are unreasonably high. In fact, the constant growth rate estimate for a regulated utility with a defined service territory should not exceed the growth rate for the economy in which it operates.

APPENDIX B:

CAPITAL ASSET PRICING MODEL THEORY

The Capital Asset Pricing Model ("CAPM") is a market-based model founded on the principle that investors demand higher returns for incurring additional risk.[3] The CAPM estimates this required return. The CAPM relies on the following assumptions:

1. Investors are rational, risk-adverse, and strive to maximize profit and terminal wealth;
2. Investors make choices based on risk and return. Return is measured by the mean returns expected from a portfolio of assets; risk is measured by the variance of these portfolio returns;
3. Investors have homogenous expectations of risk and return;
4. Investors have identical time horizons;
5. Information is freely and simultaneously available to investors.
6. There is a risk-free asset, and investors can borrow and lend unlimited amounts at the risk-free rate;
7. There are no taxes, transaction costs, restrictions on selling short, or other market imperfections; and,
8. Total asset quality is fixed, and all assets are marketable and divisible.[4]

[3] William F. Sharpe, *A Simplified Model for Portfolio Analysis* 277-93 (Management Science IX 1963); *see also* John R. Graham, Scott B. Smart & William L. Megginson, *Corporate Finance: Linking Theory to What Companies Do* 208 (3rd ed., South Western Cengage Learning 2010).

[4] *Id*.

While some of these assumptions may appear to be restrictive, they do not outweigh the inherent value of the model. The CAPM has been widely used by firms, analysts, and regulators for decades to estimate the cost of equity capital.

The basic CAPM equation is expressed as follows:

Equation 3:
Capital Asset Pricing Model

$$K = R_F + \beta_i(R_M - R_F)$$

where: K = *required return*
R_F = *risk-free rate*
β = *beta coefficient of asset i*
R_M = *required return on the overall market*

There are essentially three terms within the CAPM equation that are required to calculate the required return (K): (1) the risk-free rate (R_F); (2) the beta coefficient (β); and (3) the equity risk premium ($R_M - R_F$), which is the required return on the overall market less the risk-free rate.

Raw Beta Calculations and Adjustments

A stock's beta equals the covariance of the asset's returns with the returns on a market portfolio, divided by the portfolio's variance, as expressed in the following formula:[5]

Equation 4:
Beta

$$\beta_i = \frac{\sigma_{im}}{\sigma_m^2}$$

where: β_i = *beta of asset i*
σ_{im} = *covariance of asset i returns with market portfolio returns*
σ^2_m = *variance of market portfolio*

[5] John R. Graham, Scott B. Smart & William L. Megginson, *Corporate Finance: Linking Theory to What Companies Do* 180-81 (3rd ed., South Western Cengage Learning 2010).

Betas that are published by various research firms are typically calculated through a regression analysis that considers the movements in price of an individual stock and movements in the price of the overall market portfolio. The betas produced by this regression analysis are considered "raw" betas. There is empirical evidence that raw betas should be adjusted to account for beta's natural tendency to revert to an underlying mean.[6] Some analysts use an adjustment method proposed by Blume, which adjusts raw betas toward the market mean of one.[7] While the Blume adjustment method is popular due to its simplicity, it is arguably arbitrary, and some would say not useful at all. According to Dr. Damodaran: "While we agree with the notion that betas move toward 1.0 over time, the [Blume adjustment] strikes us as arbitrary and not particularly useful."[8] The Blume adjustment method is especially arbitrary when applied to industries with consistently low betas, such as the utility industry. For industries with consistently low betas, it is better to employ an adjustment method that adjusts raw betas toward an industry average, rather than the market average. Vasicek proposed such a method, which is preferable to the Blume adjustment method because it allows raw betas to be adjusted toward an industry average, and also accounts for the statistical accuracy of the raw beta calculation.[9] In other words, "[t]he Vasicek adjustment seeks to overcome one weakness of the Blume model by not applying the same adjustment to every security; rather, a security-specific adjustment is made depending on the

---

[6] *See* Michael J. Gombola and Douglas R. Kahl, *Time-Series Processes of Utility Betas: Implications for Forecasting Systematic Risk* 84-92 (Financial Management Autumn 1990).

[7] See Marshall Blume, *On the Assessment of Risk*, Vol. 26, No. 1, The Journal of Finance 1 (1971).

[8] *See* Aswath Damodaran, *Investment Valuation: Tools and Techniques for Determining the Value of Any Asset* 187 (3rd ed., John Wiley & Sons, Inc. 2012).

[9] Oldrich A. Vasicek, *A Note on Using Cross-Sectional Information in Bayesian Estimation of Security Betas* 1233-1239 (Journal of Finance, Vol. 28, No. 5, December 1973).

statistical quality of the regression."[10] The Vasicek beta adjustment equation is expressed as follows:

Equation 5:
Vasicek Beta Adjustment

$$\beta_{i1} = \frac{\sigma^2_{\beta i0}}{\sigma^2_{\beta 0} + \sigma^2_{\beta_{i0}}}\beta_0 + \frac{\sigma^2_{\beta 0}}{\sigma^2_{\beta 0} + \sigma^2_{\beta_{i0}}}\beta_{i0}$$

where: β_{i1} = *Vasicek adjusted beta for security i*
β_{i0} = *historical beta for security i*
β_0 = *beta of industry or proxy group*
$\sigma^2_{\beta 0}$ = *variance of betas in the industry or proxy group*
$\sigma^2_{\beta i0}$ = *square of standard error of the historical beta for security i*

The Vasicek beta adjustment is an improvement on the Blume model because the Vasicek model does not apply the same adjustment to every security. A higher standard error produced by the regression analysis indicates a lower statistical significance of the beta estimate. Thus, a beta with a high standard error should receive a greater adjustment than a beta with a low standard error. As stated in Ibbotson:

[10] 2012 Ibbotson Stocks, Bonds, Bills, and Inflation Valuation Yearbook 77-78 (Morningstar 2012).

> While the Vasicek formula looks intimidating, it is really quite simple. The adjusted beta for a company is a weighted average of the company's historical beta and the beta of the market, industry, or peer group. How much weight is given to the company and historical beta depends on the statistical significance of the company beta statistic. If a company beta has a low standard error, then it will have a higher weighting in the Vasicek formula. If a company beta has a high standard error, then it will have lower weighting in the Vasicek formula. An advantage of this adjustment methodology is that it does not force an adjustment to the market as a whole. Instead, the adjustment can be toward an industry or some other peer group. *This is most useful in looking at companies in industries that on average have high or low betas*.[11]

Thus, the Vasicek adjustment method is statistically more accurate, and is the preferred method to use when analyzing companies in an industry that has inherently low betas, such as the utility industry. The Vasicek method was also confirmed by Gombola, who conducted a study specifically related to utility companies. Gombola concluded that "[t]he strong evidence of auto-regressive tendencies in *utility* betas lends support to the application of adjustment procedures such as the . . . adjustment procedure presented by Vasicek."[12] Gombola also concluded that adjusting raw betas toward the market mean of 1.0 is *too high*, and that "[i]nstead, they should be adjusted toward a value that is less than one."[13] In conducting the Vasicek adjustment on betas in previous

[11] *Id*. at 78 (emphasis added).

[12] Michael J. Gombola and Douglas R. Kahl, *Time-Series Processes of Utility Betas: Implications for Forecasting Systematic Risk* 92 (Financial Management Autumn 1990) (emphasis added).

[13] *Id*. at 91-92.

cases, it reveals that utility betas are even lower than those published by Value Line.[14] Gombola's findings are particular important here, because his study was conducted specifically on utility companies. This evidence indicates that using Value Line's betas in a CAPM cost of equity estimate for a utility company may lead to overestimated results. Regardless, adjusting betas to a level that is *higher* than Value Line's betas is not reasonable, and it would produce CAPM cost of equity results that are too high.

[14] *See e.g.* Responsive Testimony of David J. Garrett, filed March 21, 2016 in Cause No. PUD 201500273 before the Corporation Commission of Oklahoma (the Company's 2015 rate case), at pp. 56 – 59.

APPENDIX C:

THE DEPRECIATION SYSTEM

A depreciation accounting system may be thought of as a dynamic system in which estimates of life and salvage are inputs to the system, and the accumulated depreciation account is a measure of the state of the system at any given time.[15] The primary objective of the depreciation system is the timely recovery of capital. The process for calculating the annual accruals is determined by the factors required to define the system. A depreciation system should be defined by four primary factors: 1) a *method* of allocation; 2) a *procedure* for applying the method of allocation to a group of property; 3) a *technique* for applying the depreciation rate; and 4) a *model* for analyzing the characteristics of vintage groups comprising a continuous property group.[16] The figure below illustrates the basic concept of a depreciation system and includes some of the available parameters.[17]

There are hundreds of potential combinations of methods, procedures, techniques, and models, but in practice, analysts use only a few combinations. Ultimately, the system selected must result in the systematic and rational allocation of capital recovery for the utility. Each of the four primary factors defining the parameters of a depreciation system is discussed further below.

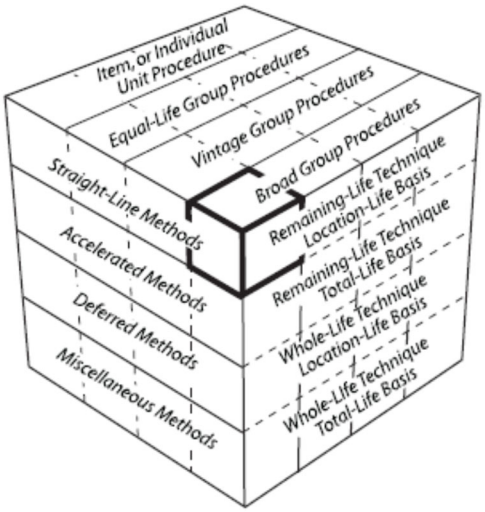
---

[15] *See* Frank K. Wolf & W. Chester Fitch, *Depreciation Systems* 69-70 (Iowa State University Press 1994).

[16] *Id.* at 70, 139-40.

[17] Edison Electric Institute, *Introduction to Depreciation* (inside cover) (EEI April 2013). Some definitions of the terms shown in this diagram are not consistent among depreciation practitioners and literature due to the fact that depreciation analysis is a relatively small and fragmented field. This diagram simply illustrates the some of the available parameters of a depreciation system.

Figure 1:
The Depreciation System Cube



1. Allocation Methods

The "method" refers to the pattern of depreciation in relation to the accounting periods. The method most commonly used in the regulatory context is the "straight-line method" — a type of age-life method in which the depreciable cost of plant is charged in equal amounts to each accounting period over the service life of plant.[18] Because group depreciation rates and plant balances often change, the amount of the annual accrual rarely remains the same, even when the straight-line method is employed.[19] The basic formula for the straight-line method is as follows:[20]

Equation 6:
Straight-Line Accrual

$$Annual\ Accrual = \frac{Gross\ Plant - Net\ Salavage}{Service\ Life}$$

[18] National Association of Regulatory Utility Commissioners, *Public Utility Depreciation Practices* 56 (NARUC 1996).

[19] *Id*.

[20] *Id*.

Gross plant is a known amount from the utility's records, while both net salvage and service life must be estimated in order to calculate the annual accrual. The straight-line method differs from accelerated methods of recovery, such as the "sum-of-the-years-digits" method and the "declining balance" method. Accelerated methods are primarily used for tax purposes and are rarely used in the regulatory context for determining annual accruals.[21] In practice, the annual accrual is expressed as a rate which is applied to the original cost of plant in order to determine the annual accrual in dollars. The formula for determining the straight-line rate is as follows:[22]

Equation 7:
Straight-Line Rate

$$Depreciation\ Rate\ \% = \frac{100 - Net\ Salvage\ \%}{Service\ Life}$$

2. Grouping Procedures

The "procedure" refers to the way the allocation method is applied through subdividing the total property into groups.[23] While single units may be analyzed for depreciation, a group plan of depreciation is particularly adaptable to utility property. Employing a grouping procedure allows for a composite application of depreciation rates to groups of similar property, rather than excessively conducting calculations for each unit. Whereas an individual unit of property has a single life, a group of property displays a dispersion of lives and the life characteristics of the group must be described statistically.[24] When analyzing mass property categories, it is important that

[21] *Id*. at 57.

[22] *Id*. at 56.

[23] Wolf *supra* n. 15, at 74-75.

[24] *Id*. at 74.

each group contains homogenous units of plant that are used in the same general manner throughout the plant and operated under the same general conditions.[25]

The "average life" and "equal life" grouping procedures are the two most common. In the average life procedure, a constant annual accrual rate based on the average life of all property in the group is applied to the surviving property. While property having shorter lives than the group average will not be fully depreciated, and likewise, property having longer lives than the group average will be over-depreciated, the ultimate result is that the group will be fully depreciated by the time of the final retirement.[26] Thus, the average life procedure treats each unit as though its life is equal to the average life of the group. In contrast, the equal life procedure treats each unit in the group as though its life was known.[27] Under the equal life procedure the property is divided into subgroups that each has a common life.[28]

3. Application Techniques

The third factor of a depreciation system is the "technique" for applying the depreciation rate. There are two commonly used techniques: "whole life" and "remaining life." The whole life technique applies the depreciation rate on the estimated average service life of a group, while the remaining life technique seeks to recover undepreciated costs over the remaining life of the plant.[29]

In choosing the application technique, consideration should be given to the proper level of the accumulated depreciation account. Depreciation accrual rates are calculated using estimates of service life and salvage. Periodically these estimates must be revised due to changing

[25] NARUC *supra* n. 18, at 61-62.

[26] *See* Wolf *supr*a n. 15, at 74-75.

[27] *Id*. at 75.

[28] *Id*.

[29] NARUC *supra* n. 18, at 63-64.

conditions, which cause the accumulated depreciation account to be higher or lower than necessary. Unless some corrective action is taken, the annual accruals will not equal the original cost of the plant at the time of final retirement.[30] Analysts can calculate the level of imbalance in the accumulated depreciation account by determining the "calculated accumulated depreciation," (a.k.a. "theoretical reserve" and referred to in these appendices as "CAD"). The CAD is the calculated balance that would be in the accumulated depreciation account at a point in time using *current* depreciation parameters.[31] An imbalance exists when the actual accumulated depreciation account does not equal the CAD. The choice of application technique will affect how the imbalance is dealt with.

Use of the whole life technique requires that an adjustment be made to accumulated depreciation after calculation of the CAD. The adjustment can be made in a lump sum or over a period of time. With use of the remaining life technique, however, adjustments to accumulated depreciation are amortized over the remaining life of the property and are automatically included in the annual accrual.[32] This is one reason that the remaining life technique is popular among practitioners and regulators. The basic formula for the remaining life technique is as follows:[33]

---

[30] Wolf *supra* n. 15, at 83.

[31] NARUC *supra* n. 18, at 325.

[32] NARUC *supra* n. 18, at 65 ("The desirability of using the remaining life technique is that any necessary adjustments of [accumulated depreciation] . . . are accrued automatically over the remaining life of the property. Once commenced, adjustments to the depreciation reserve, outside of those inherent in the remaining life rate would require regulatory approval.").

[33] *Id*. at 64.

Equation 8:
Remaining Life Accrual

$$Annual\ Accrual = \frac{Gross\ Plant - Accumulated\ Depreciation - Net\ Salvage}{Average\ Remaining\ Life}$$

The remaining life accrual formula is similar to the basic straight-line accrual formula above with two notable exceptions. First, the numerator has an additional factor in the remaining life formula: the accumulated depreciation. Second, the denominator is "average remaining life" instead of "average life." Essentially, the future accrual of plant (gross plant less accumulated depreciation) is allocated over the remaining life of plant. Thus, the adjustment to accumulated depreciation is "automatic" in the sense that it is built into the remaining life calculation.[34]

4. Analysis Model

The fourth parameter of a depreciation system, the "model," relates to the way of viewing the life and salvage characteristics of the vintage groups that have been combined to form a continuous property group for depreciation purposes.[35] A continuous property group is created when vintage groups are combined to form a common group. Over time, the characteristics of the property may change, but the continuous property group will continue. The two analysis models used among practitioners, the "broad group" and the "vintage group," are two ways of viewing the life and salvage characteristics of the vintage groups that have been combined to from a continuous property group.

The broad group model views the continuous property group as a collection of vintage groups that each has the same life and salvage characteristics. Thus, a single survivor curve and a

[34] Wolf *supra* n. 15, at 178.

[35] *See* Wolf *supra* n. 15, at 139 (I added the term "model" to distinguish this fourth depreciation system parameter from the other three parameters).

single salvage schedule are chosen to describe all the vintages in the continuous property group. In contrast, the vintage group model views the continuous property group as a collection of vintage groups that may have different life and salvage characteristics. Typically, there is not a significant difference between vintage group and broad group results unless vintages within the applicable property group experienced dramatically different retirement levels than anticipated in the overall estimated life for the group. For this reason, many analysts utilize the broad group procedure because it is more efficient.

APPENDIX D:

IOWA CURVES

Early work in the analysis of the service life of industrial property was based on models that described the life characteristics of human populations.[36] This explains why the word "mortality" is often used in the context of depreciation analysis. In fact, a group of property installed during the same accounting period is analogous to a group of humans born during the same calendar year. Each period the group will incur a certain fraction of deaths / retirements until there are no survivors. Describing this pattern of mortality is part of actuarial analysis and is regularly used by insurance companies to determine life insurance premiums. The pattern of mortality may be described by several mathematical functions, particularly the survivor curve and frequency curve. Each curve may be derived from the other so that if one curve is known, the other may be obtained. A survivor curve is a graph of the percent of units remaining in service expressed as a function of age.[37] A frequency curve is a graph of the frequency of retirements as a function of age. Several types of survivor and frequency curves are illustrated in the figures below.

1. Development

The survivor curves used by analysts today were developed over several decades from extensive analysis of utility and industrial property. In 1931 Edwin Kurtz and Robley Winfrey used extensive data from a range of 65 industrial property groups to create survivor curves representing the life characteristics of each group of property.[38] They generalized the 65 curves

[36] Wolf *supra* n. 15, at 276.

[37] *Id*. at 23.

[38] *Id*. at 34.

into 13 survivor curve types and published their results in *Bulletin 103: Life Characteristics of Physical Property*. The 13 type curves were designed to be used as valuable aids in forecasting probable future service lives of industrial property. Over the next few years, Winfrey continued gathering additional data, particularly from public utility property, and expanded the examined property groups from 65 to 176.[39] This resulted in 5 additional survivor curve types for a total of 18 curves. In 1935, Winfrey published *Bulletin 125: Statistical Analysis of Industrial Property Retirements*. According to Winfrey, "[t]he 18 type curves are expected to represent quite well all survivor curves commonly encountered in utility and industrial practices."[40] These curves are known as the "Iowa curves" and are used extensively in depreciation analysis in order to obtain the average service lives of property groups. (Use of Iowa curves in actuarial analysis is further discussed in Exhibit DJG-23, Appendix E.)

In 1942, Winfrey published *Bulletin 155: Depreciation of Group Properties*. In Bulletin 155, Winfrey made some slight revisions to a few of the 18 curve types, and published the equations, tables of the percent surviving, and probable life of each curve at five-percent intervals.[41] Rather than using the original formulas, analysts typically rely on the published tables containing the percentages surviving. This is because absent knowledge of the integration technique applied to each age interval, it is not possible to recreate the exact original published table values. In the 1970s, John Russo collected data from over 2,000 property accounts reflecting

---

[39] *Id*.

[40] Robley Winfrey, *Bulletin 125: Statistical Analyses of Industrial Property Retirements* 85, Vol. XXXIV, No. 23 (Iowa State College of Agriculture and Mechanic Arts 1935).

[41] Robley Winfrey, Bulletin 155: Depreciation of Group Properties 121-28, Vol XLI, No. 1 (The Iowa State College Bulletin 1942); see also Wolf supra n. 15, at 305-38 (publishing the percent surviving for each Iowa curve, including "O" type curve, at one percent intervals).

observations during the period 1965 – 1975 as part of his Ph.D. dissertation at Iowa State. Russo essentially repeated Winfrey's data collection, testing, and analysis methods used to develop the original Iowa curves, except that Russo studied industrial property in service several decades after Winfrey published the original Iowa curves. Russo drew three major conclusions from his research:[42]

1. No evidence was found to conclude that the Iowa curve set, as it stands, is not a valid system of standard curves;

2. No evidence was found to conclude that new curve shapes could be produced at this time that would add to the validity of the Iowa curve set; and

3. No evidence was found to suggest that the number of curves within the Iowa curve set should be reduced.

Prior to Russo's study, some had criticized the Iowa curves as being potentially obsolete because their development was rooted in the study of industrial property in existence during the early 1900s. Russo's research, however, negated this criticism by confirming that the Iowa curves represent a sufficiently wide range of life patterns, and that though technology will change over time, the underlying patterns of retirements remain constant and can be adequately described by the Iowa curves.[43]

Over the years, several more curve types have been added to Winfrey's 18 Iowa curves. In 1967, Harold Cowles added four origin-modal curves. In addition, a square curve is sometimes used to depict retirements which are all planned to occur at a given age. Finally, analysts

[42] *See* Wolf *supra* n. 15, at 37.

[43] *Id*.

commonly rely on several "half curves" derived from the original Iowa curves. Thus, the term "Iowa curves" could be said to describe up to 31 standardized survivor curves.

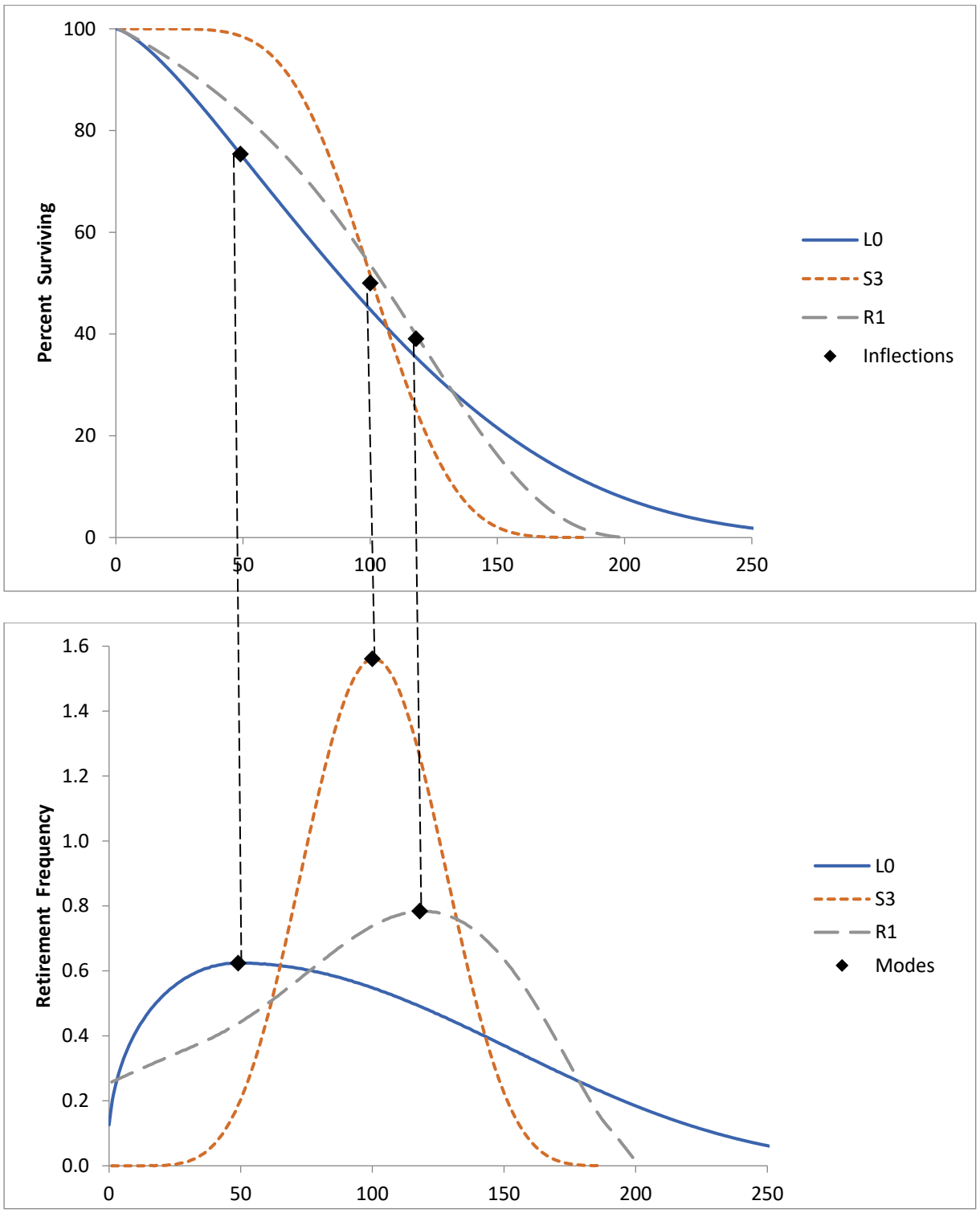
2. Classification

The Iowa curves are classified by three variables: modal location, average life, and variation of life. First, the mode is the percent life that results in the highest point of the frequency curve and the "inflection point" on the survivor curve. The modal age is the age at which the greatest rate of retirement occurs. As illustrated in the figure below, the modes appear at the steepest point of each survivor curve in the top graph, as well as the highest point of each corresponding frequency curve in the bottom graph.

The classification of the survivor curves was made according to whether the mode of the retirement frequency curves was to the left, to the right, or coincident with average service life. There are three modal "families" of curves: six left modal curves (L0, L1, L2, L3, L4, L5); five right modal curves (R1, R2, R3, R4, R5); and seven symmetrical curves (S0, S1, S2, S3, S4, S5, S6).[44] In the figure below, one curve from each family is shown: L0, S3 and R1, with average life at 100 on the x-axis. It is clear from the graphs that the modes for the L0 and R1 curves appear to the left and right of average life respectively, while the S3 mode is coincident with average life.

[44] In 1967, Harold A. Cowles added four origin-modal curves known as "O type" curves. There are also several "half" curves and a square curve, so the total amount of survivor curves commonly called "Iowa" curves is about 31 (see NARUC supra n. 119, at 68).

Figure 2:
Modal Age Illustration



The second Iowa curve classification variable is average life. The Iowa curves were designed using a single parameter of age expressed as a percent of average life instead of actual age. This was necessary in order for the curves to be of practical value. As Winfrey notes:

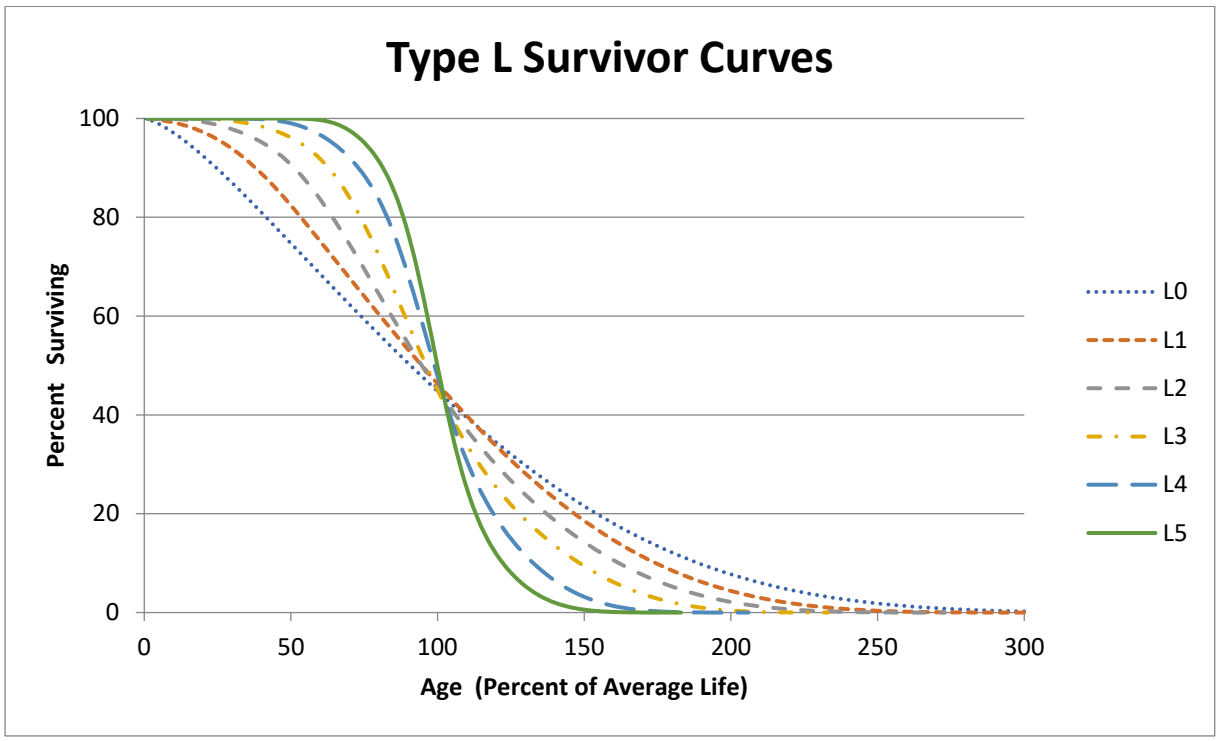
> Since the location of a particular survivor on a graph is affected by both its span in years and the shape of the curve, it is difficult to classify a group of curves unless one of these variables can be controlled. This is easily done by expressing the age in percent of average life."[45]

Because age is expressed in terms of percent of average life, any particular Iowa curve type can be modified to forecast property groups with various average lives.

The third variable, variation of life, is represented by the numbers next to each letter. A lower number (e.g., L1) indicates a relatively low mode, large variation, and large maximum life; a higher number (e.g., L5) indicates a relatively high mode, small variation, and small maximum life. All three classification variables – modal location, average life, and variation of life — are used to describe each Iowa curve. For example, a 13-L1 Iowa curve describes a group of property with a 13-year average life, with the greatest number of retirements occurring before (or to the left of) the average life, and a relatively low mode. The graphs below show these 18 survivor curves, organized by modal family.

[45] Winfrey *supra* n. 40, at 60.

Figure 3:
Type L Survivor and Frequency Curves



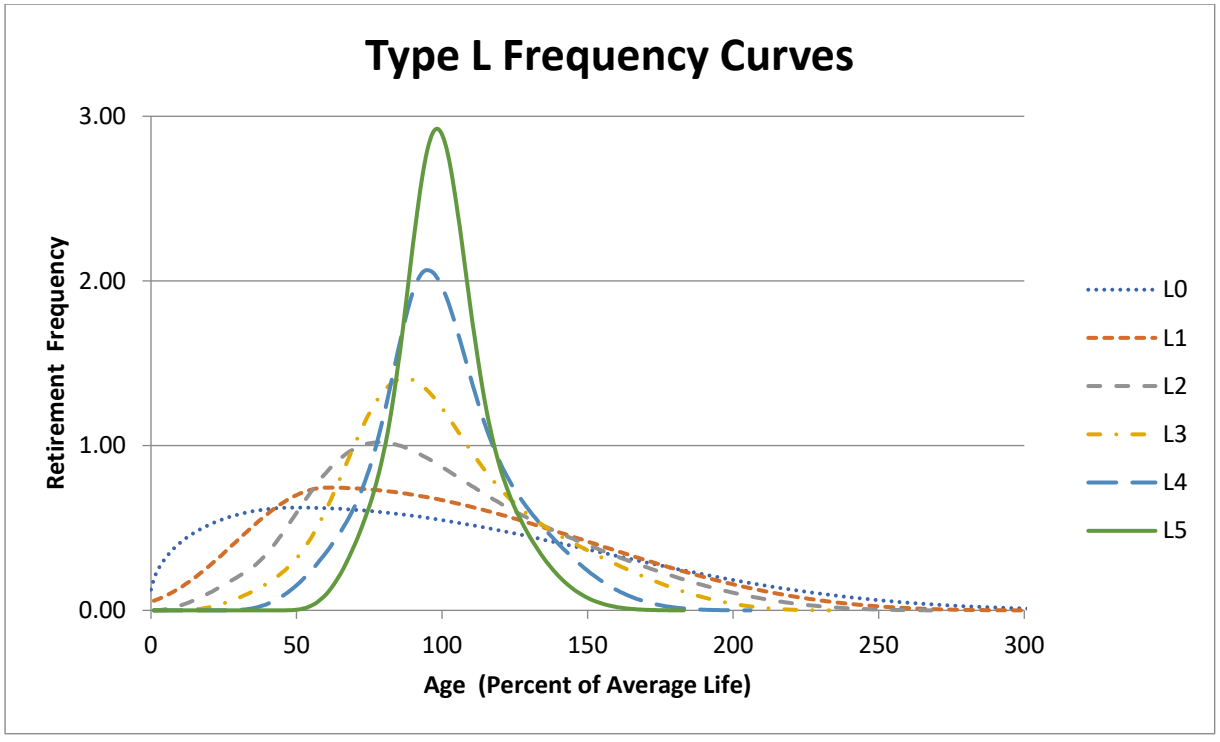
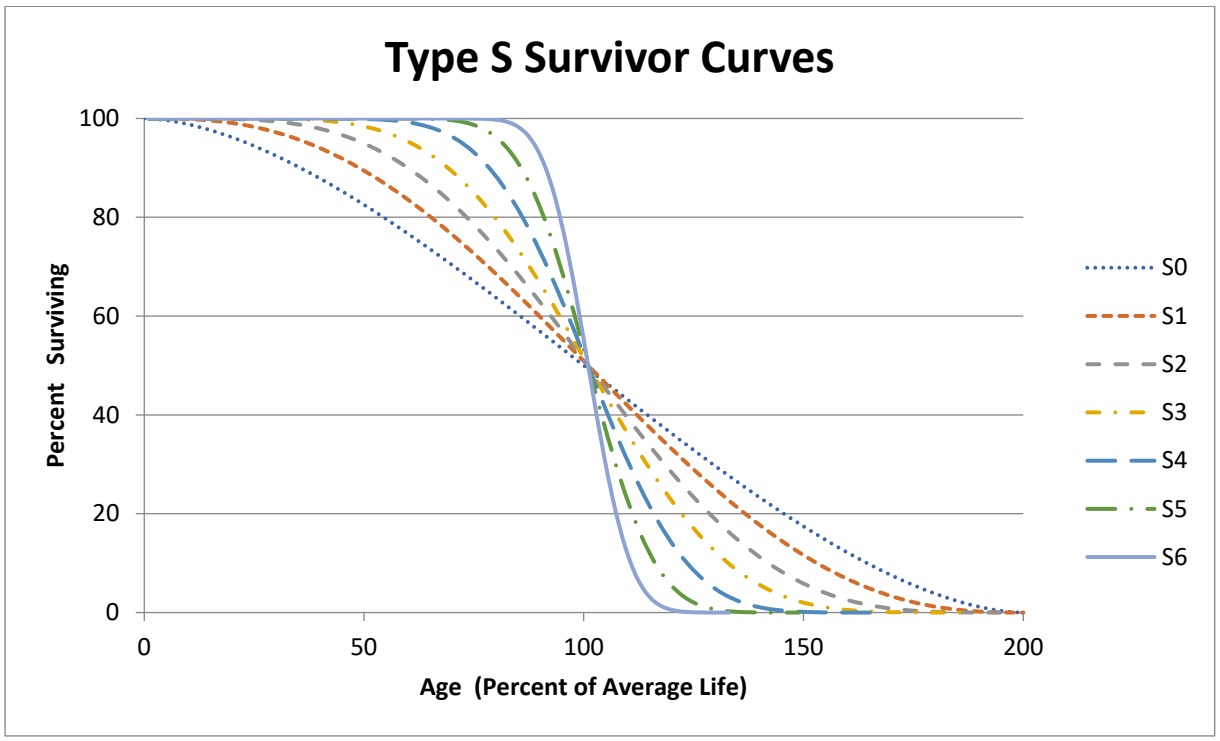


Figure 4:
Type S Survivor and Frequency Curves



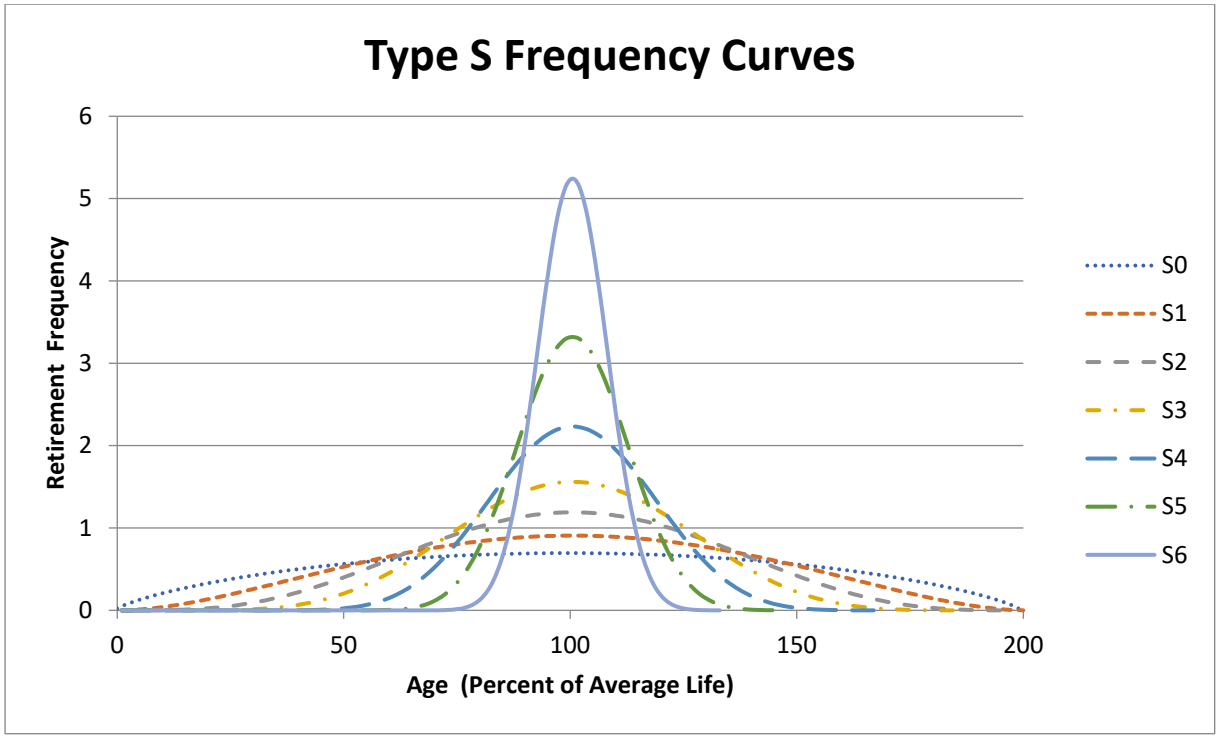
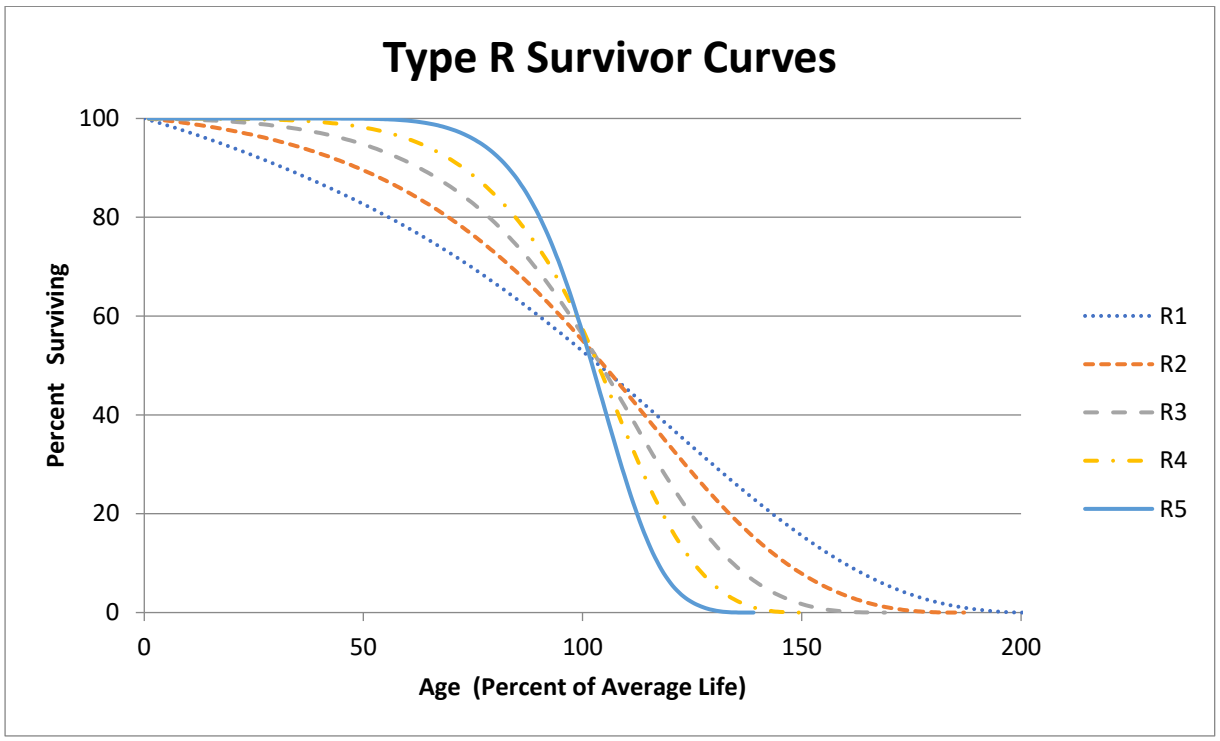
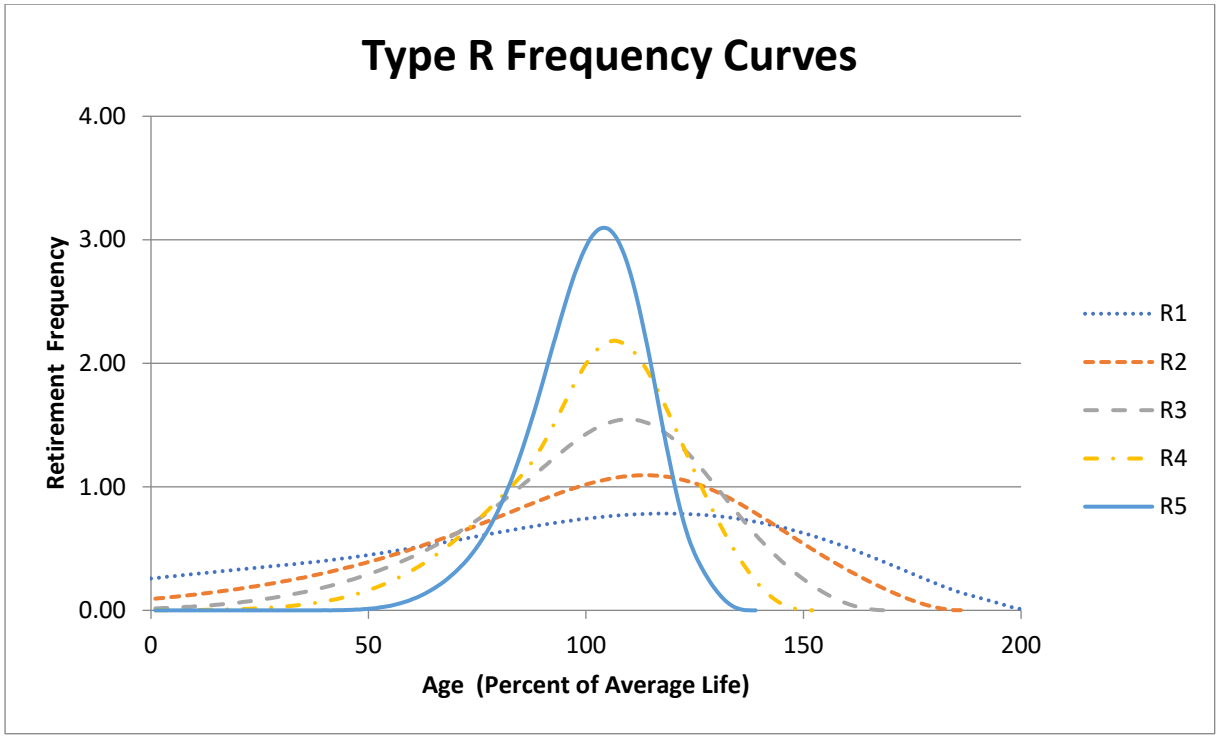


Figure 5:
Type R Survivor and Frequency Curves





As shown in the graphs above, the modes for the L family frequency curves occur to the left of average life (100% on the x-axis), while the S family modes occur at the average, and the R family modes occur after the average.

3. Types of Lives

Several other important statistical analyses and types of lives may be derived from an Iowa curve. These include: 1) average life; 2) realized life; 3) remaining life; and 4) probable life. The figure below illustrates these concepts. It shows the frequency curve, survivor curve, and probable life curve. Age M_x on the x-axis represents the modal age, while age AL_x represents the average age. Thus, this figure illustrates an "L type" Iowa curve since the mode occurs before the average.[46]

First, average life is the area under the survivor curve from age zero to maximum life. Because the survivor curve is measured in percent, the area under the curve must be divided by 100% to convert it from percent-years to years. The formula for average life is as follows:[47]

Equation 9:
Average Life

$$Average\ Life\ = \frac{Area\ Under\ Survivor\ Curve\ from\ Age\ 0\ to\ Max\ Life}{100\%}$$

Thus, average life may not be determined without a complete survivor curve. Many property groups being analyzed will not have experienced full retirement. This results in a "stub" survivor

[46] From age zero to age M_x on the survivor curve, it could be said that the percent surviving from this property group is decreasing at an increasing rate. Conversely, from point M_x to maximum on the survivor curve, the percent surviving is decreasing at a decreasing rate.

[47] *See* NARUC *supra* n. 18, at 71.

curve. Iowa curves are used to extend stub curves to maximum life in order for the average life calculation to be made (see Exhibit DJG-23, Appendix E).

Realized life is similar to average life, except that realized life is the average years of service experienced to date from the vintage's original installations.[48] As shown in the figure below, realized life is the area under the survivor curve from zero to age RL_X. Likewise, unrealized life is the area under the survivor curve from age RL_X to maximum life. Thus, it could be said that average life equals realized life plus unrealized life.

Average remaining life represents the future years of service expected from the surviving property.[49] Remaining life is sometimes referred to as "average remaining life" and "life expectancy." To calculate average remaining life at age x, the area under the estimated future potion of the survivor curve is divided by the percent surviving at age x (denoted S_X). Thus, the average remaining life formula is:

Equation 10:
Average Remaining Life

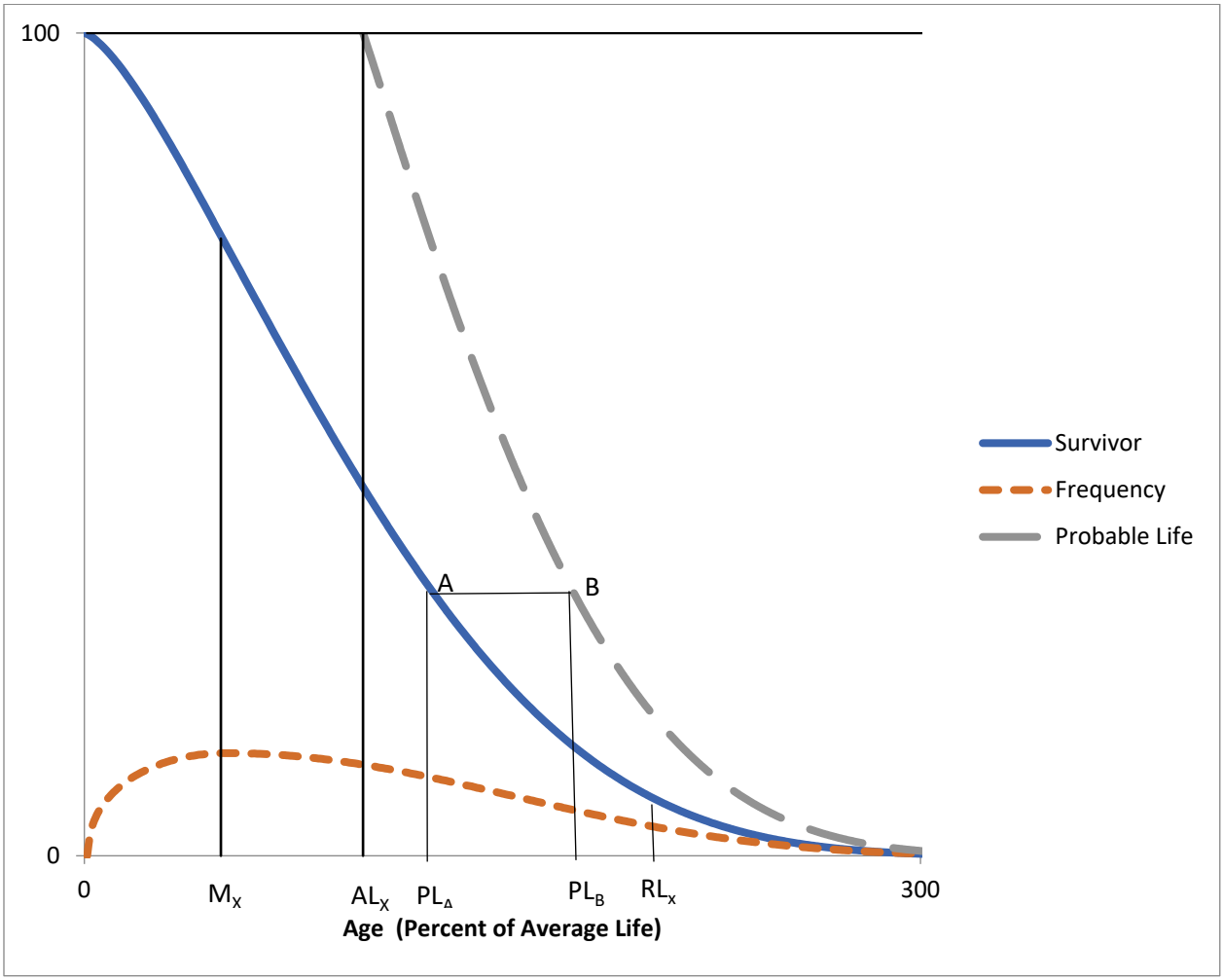
$$Average\ Remaining\ Life\ = \frac{Area\ Under\ Survivor\ Curve\ from\ Age\ x\ to\ Max\ Life}{S_X}$$

It is necessary to determine average remaining life in order to calculate the annual accrual under the remaining life technique.

[48] *Id*. at 73.

[49] *Id*. at 74.

Figure 6:
Iowa Curve Derivations



Finally, the probable life may also be determined from the Iowa curve. The probable life of a property group is the total life expectancy of the property surviving at any age and is equal to the remaining life plus the current age.[50] The probable life is also illustrated in this figure. The probable life at age PL_A is the age at point PL_B. Thus, to read the probable life at age PL_A, see the corresponding point on the survivor curve above at point "A," then horizontally to point "B" on

[50] Wolf *supra* n. 15, at 28.

the probable life curve, and back down to the age corresponding to point "B." It is no coincidence that the vertical line from AL_X connects at the top of the probable life curve. This is because at age zero, probable life equals average life.

APPENDIX E:

ACTUARIAL ANALYSIS

Actuarial science is a discipline that applies various statistical methods to assess risk probabilities and other related functions. Actuaries often study human mortality. The results from historical mortality data are used to predict how long similar groups of people who are alive will live today. Insurance companies rely of actuarial analysis in determining premiums for life insurance policies.

The study of human mortality is analogous to estimating service lives of industrial property groups. While some humans die solely from chance, most deaths are related to age; that is, death rates generally increase as age increases. Similarly, physical plant is also subject to forces of retirement. These forces include physical, functional, and contingent factors, as shown in the table below.[51]

Figure 7:
Forces of Retirement

Physical Factors	Functional Factors	Contingent Factors
Wear and tear Decay or deterioration Action of the elements	Inadequacy Obsolescence Changes in technology Regulations Managerial discretion	Casualties or disasters Extraordinary obsolescence

While actuaries study historical mortality data in order to predict how long a group of people will live, depreciation analysts must look at a utility's historical data in order to estimate the average lives of property groups. A utility's historical data is often contained in the Continuing Property Records ("CPR"). Generally, a CPR should contain 1) an inventory of property record

[51] NARUC *supra* n. 18, at 14-15.

units; 2) the association of costs with such units; and 3) the dates of installation and removal of plant. Since actuarial analysis includes the examination of historical data to forecast future retirements, the historical data used in the analysis should not contain events that are anomalous or unlikely to recur.[52] Historical data is used in the retirement rate actuarial method, which is discussed further below.

The Retirement Rate Method

There are several systematic actuarial methods that use historical data in order to calculate observed survivor curves for property groups. Of these methods, the retirement rate method is superior, and is widely employed by depreciation analysts.[53] The retirement rate method is ultimately used to develop an observed survivor curve, which can be fitted with an Iowa curve discussed in Exhibit DJG-23, Appendix D in order to forecast average life. The observed survivor curve is calculated by using an observed life table ("OLT"). The figures below illustrate how the OLT is developed. First, historical property data are organized in a matrix format, with placement years on the left forming rows, and experience years on the top forming columns. The placement year (a.k.a. "vintage year" or "installation year") is the year of placement of a group of property. The experience year (a.k.a. "activity year") refers to the accounting data for a particular calendar year. The two matrices below use aged data — that is, data for which the dates of placements, retirements, transfers, and other transactions are known. Without aged data, the retirement rate actuarial method may not be employed. The first matrix is the exposure matrix, which shows the

[52] *Id*. at 112-13.

[53] Anson Marston, Robley Winfrey & Jean C. Hempstead, *Engineering Valuation and Depreciation* 154 (2nd ed., McGraw-Hill Book Company, Inc. 1953).

exposures at the beginning of each year.[54] An exposure is simply the depreciable property subject to retirement during a period. The second matrix is the retirement matrix, which shows the annual retirements during each year. Each matrix covers placement years 2003–2015, and experience years 2008-2015. In the exposure matrix, the number in the 2009 experience column and the 2003 placement row is $192,000. This means at the beginning of 2012, there was $192,000 still exposed to retirement from the vintage group placed in 2003. Likewise, in the retirement matrix, $19,000 of the dollars invested in 2003 was retired during 2012.

Figure 8:
Exposure Matrix

	Experience Years									
	Exposures at January 1 of Each Year (Dollars in 000's)									
Placement Years	2008	2009	2010	2011	2012	2013	2014	2015	Total at Start of Age Interval	Age Interval
2003	261	245	228	211	**192**	173	152	131	131	11.5 - 12.5
2004	267	252	236	220	202	**184**	165	145	297	10.5 - 11.5
2005	304	291	277	263	248	232	**216**	198	536	9.5 - 10.5
2006	345	334	322	310	298	284	270	**255**	**847**	8.5 - 9.5
2007	367	357	347	335	324	312	299	286	1,201	7.5 - 8.5
2008	375	366	357	347	336	325	314	302	1,581	6.5 - 7.5
2009		377	366	356	346	336	327	319	1,986	5.5 - 6.5
2010			381	369	358	347	336	327	2,404	4.5 - 5.5
2011				386	372	359	346	334	2,559	3.5 - 4.5
2012					395	380	366	352	2,722	2.5 - 3.5
2013						401	385	370	2,866	1.5 - 2.5
2014							410	393	2,998	0.5 - 1.5
2015								416	3,141	0.0 - 0.5
Total	1919	2222	2514	2796	3070	3333	3586	3827	23,268	

[54] Technically, the last numbers in each column are "gross additions" rather than exposures. Gross additions do not include adjustments and transfers applicable to plant placed in a previous year. Once retirements, adjustments, and transfers are factored in, the balance at the beginning of the next account period is called an "exposure" rather than an addition.

Figure 9:
Retirement Matrix

Placement Years	Experience Years: Retirments During the Year (Dollars in 000's) 2008	2009	2010	2011	2012	2013	2014	2015	Total During Age Interval	Age Interval
2003	16	17	18	19	**19**	20	21	23	23	11.5 - 12.5
2004	15	16	17	17	18	**19**	20	21	43	10.5 - 11.5
2005	13	14	14	15	16	17	**17**	18	59	9.5 - 10.5
2006	11	12	12	13	13	14	15	**15**	**71**	8.5 - 9.5
2007	10	11	11	12	12	13	13	14	82	7.5 - 8.5
2008	9	9	10	10	11	11	12	13	91	6.5 - 7.5
2009		11	10	10	9	9	9	8	95	5.5 - 6.5
2010			12	11	11	10	10	9	100	4.5 - 5.5
2011				14	13	13	12	11	93	3.5 - 4.5
2012					15	14	14	13	91	2.5 - 3.5
2013						16	15	14	93	1.5 - 2.5
2014							17	16	100	0.5 - 1.5
2015								18	112	0.0 - 0.5
Total	74	89	104	121	139	157	175	194	1,052	

These matrices help visualize how exposure and retirement data are calculated for each age interval. An age interval is typically one year. A common convention is to assume that any unit installed during the year is installed in the middle of the calendar year (i.e., July 1st). This convention is called the "half-year convention" and effectively assumes that all units are installed uniformly during the year.[55] Adoption of the half-year convention leads to age intervals of 0-0.5 years, 0.5-1.5 years, etc., as shown in the matrices.

The purpose of the matrices is to calculate the totals for each age interval, which are shown in the second column from the right in each matrix. This column is calculated by adding each number from the corresponding age interval in the matrix. For example, in the exposure matrix, the total amount of exposures at the beginning of the 8.5-9.5 age interval is $847,000. This number was calculated by adding the numbers shown on the "stairs" to the left (192+184+216+255=847).

[55] Wolf *supra* n. 15, at 22.

The same calculation is applied to each number in the column. The amounts retired during the year in the retirements matrix affect the exposures at the beginning of each year in the exposures matrix. For example, the amount exposed to retirement in 2008 from the 2003 vintage is $261,000. The amount retired during 2008 from the 2003 vintage is $16,000. Thus, the amount exposed to retirement in 2009 from the 2003 vintage is $245,000 ($261,000 - $16,000). The company's property records may contain other transactions which affect the property, including sales, transfers, and adjusting entries. Although these transactions are not shown in the matrices above, they would nonetheless affect the amount exposed to retirement at the beginning of each year.

The totaled amounts for each age interval in both matrices are used to form the exposure and retirement columns in the OLT, as shown in the chart below. This chart also shows the retirement ratio and the survivor ratio for each age interval. The retirement ratio for an age interval is the ratio of retirements during the interval to the property exposed to retirement at the beginning of the interval. The retirement ratio represents the probability that the property surviving at the beginning of an age interval will be retired during the interval. The survivor ratio is simply the complement to the retirement ratio (1 – retirement ratio). The survivor ratio represents the probability that the property surviving at the beginning of an age interval will survive to the next age interval.

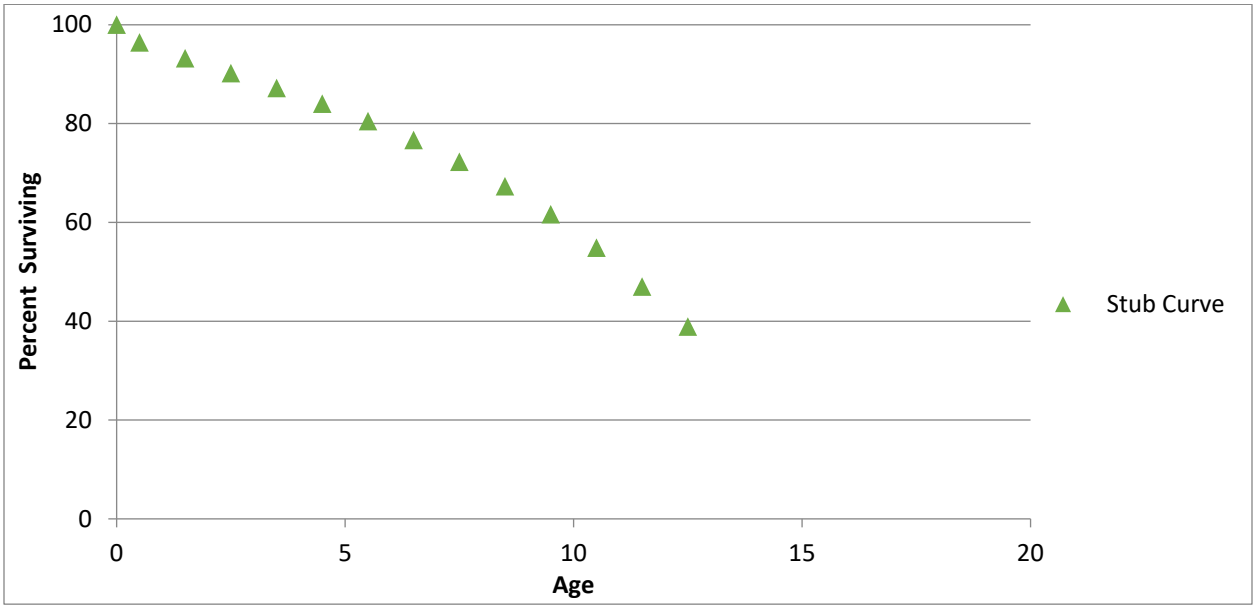
Figure 10:
Observed Life Table

Age at Start of Interval	Exposures at Start of Age Interval	Retirements During Age Interval	Retirement Ratio	Survivor Ratio	Percent Surviving at Start of Age Interval
A	B	C	D = C / B	E = 1 - D	F
0.0	3,141	112	0.036	0.964	**100.00**
0.5	2,998	100	0.033	0.967	**96.43**
1.5	2,866	93	0.032	0.968	**93.21**
2.5	2,722	91	0.033	0.967	**90.19**
3.5	2,559	93	0.037	0.963	**87.19**
4.5	2,404	100	0.042	0.958	**84.01**
5.5	1,986	95	0.048	0.952	**80.50**
6.5	1,581	91	0.058	0.942	**76.67**
7.5	1,201	82	0.068	0.932	**72.26**
8.5	847	71	0.084	0.916	**67.31**
9.5	536	59	0.110	0.890	**61.63**
10.5	297	43	0.143	0.857	**54.87**
11.5	131	23	0.172	0.828	**47.01**
					38.91
Total	23,268	1,052			

Column F on the right shows the percentages surviving at the beginning of each age interval. This column starts at 100% surviving. Each consecutive number below is calculated by multiplying the percent surviving from the previous age interval by the corresponding survivor ratio for that age interval. For example, the percent surviving at the start of age interval 1.5 is 93.21%, which was calculated by multiplying the percent surviving for age interval 0.5 (96.43%) by the survivor ratio for age interval 0.5 (0.967).

The percentages surviving in Column F are the numbers that are used to form the original survivor curve. This particular curve starts at 100% surviving and ends at 38.91% surviving. An observed survivor curve such as this that does not reach zero percent surviving is called a "stub" curve. The figure below illustrates the stub survivor curve derived from the OLT table above.

Figure 11:
Original "Stub" Survivor Curve



The matrices used to develop the basic OLT and stub survivor curve provide a basic illustration of the retirement rate method in that only a few placement and experience years were used. In reality, analysts may have several decades of aged property data to analyze. In that case, it may be useful to use a technique called "banding" in order to identify trends in the data.

Banding

The forces of retirement and characteristics of industrial property are constantly changing. A depreciation analyst may examine the magnitude of these changes. Analysts often use a technique called "banding" to assist with this process. Banding refers to the merging of several years of data into a single data set for further analysis, and it is a common technique associated with the retirement rate method.[56] There are three primary benefits of using bands in depreciation analysis:

[56] NARUC *supra* n. 18, at 113.

1. Increasing the sample size. In statistical analyses, the larger the sample size in relation to the body of total data, the greater the reliability of the result;
2. Smooth the observed data. Generally, the data obtained from a single activity or vintage year will not produce an observed life table that can be easily fit; and
3. Identify trends. By looking at successive bands, the analyst may identify broad trends in the data that may be useful in projecting the future life characteristics of the property.[57]

Two common types of banding methods are the "placement band" method and the "experience band" method." A placement band, as the name implies, isolates selected placement years for analysis. The figure below illustrates the same exposure matrix shown above, except that only the placement years 2005-2008 are considered in calculating the total exposures at the beginning of each age interval.

[57] *Id*.

Figure 12:
Placement Bands

Placement Years	Experience Years: Exposures at January 1 of Each Year (Dollars in 000's) 2008	2009	2010	2011	2012	2013	2014	2015	Total at Start of Age Interval	Age Interval
2003	261	245	228	211	192	173	152	131		11.5 - 12.5
2004	267	252	236	220	202	184	165	145		10.5 - 11.5
2005	304	291	277	263	248	232	216	198	198	9.5 - 10.5
2006	345	334	322	310	298	284	270	255	471	8.5 - 9.5
2007	367	357	347	335	324	312	299	286	788	7.5 - 8.5
2008	375	366	357	347	336	325	314	302	1,133	6.5 - 7.5
2009		377	366	356	346	336	327	319	1,186	5.5 - 6.5
2010			381	369	358	347	336	327	1,237	4.5 - 5.5
2011				386	372	359	346	334	1,285	3.5 - 4.5
2012					395	380	366	352	1,331	2.5 - 3.5
2013						401	385	370	1,059	1.5 - 2.5
2014							410	393	733	0.5 - 1.5
2015								416	375	0.0 - 0.5
Total	1919	2222	2514	2796	3070	3333	3586	3827	9,796	

The shaded cells within the placement band equal the total exposures at the beginning of age interval 4.5–5.5 ($1,237). The same placement band would be used for the retirement matrix covering the same placement years of 2005 – 2008. This of course would result in a different OLT and original stub survivor curve than those that were calculated above without the restriction of a placement band.

Analysts often use placement bands for comparing the survivor characteristics of properties with different physical characteristics.[58] Placement bands allow analysts to isolate the effects of changes in technology and materials that occur in successive generations of plant. For example, if in 2005 an electric utility began placing transmission poles with a special chemical treatment that extended the service lives of the poles, an analyst could use placement bands to isolate and analyze the effect of that change in the property group's physical characteristics. While placement

[58] Wolf *supra* n. 15, at 182.

bands are very useful in depreciation analysis, they also possess an intrinsic dilemma. A fundamental characteristic of placement bands is that they yield fairly complete survivor curves for older vintages. However, with newer vintages, which are arguably more valuable for forecasting, placement bands yield shorter survivor curves. Longer "stub" curves are considered more valuable for forecasting average life. Thus, an analyst must select a band width broad enough to provide confidence in the reliability of the resulting curve fit yet narrow enough so that an emerging trend may be observed.[59]

Analysts also use "experience bands." Experience bands show the composite retirement history for all vintages during a select set of activity years. The figure below shows the same data presented in the previous exposure matrices, except that the experience band from 2011 – 2013 is isolated, resulting in different interval totals.

[59] NARUC *supra* n. 18, at 114.

Figure 13:
Experience Bands

	Experience Years									
	Exposures at January 1 of Each Year (Dollars in 000's)									
Placement Years	2008	2009	2010	2011	2012	2013	2014	2015	Total at Start of Age Interval	Age Interval
2003	261	245	228	211	192	173	152	131		11.5 - 12.5
2004	267	252	236	220	202	184	165	145		10.5 - 11.5
2005	304	291	277	263	248	232	216	198	173	9.5 - 10.5
2006	345	334	322	310	298	284	270	255	376	8.5 - 9.5
2007	367	357	347	335	324	312	299	286	645	7.5 - 8.5
2008	375	366	357	347	336	325	314	302	752	6.5 - 7.5
2009		377	366	356	346	336	327	319	872	5.5 - 6.5
2010			381	369	358	347	336	327	959	4.5 - 5.5
2011				386	372	359	346	334	1,008	3.5 - 4.5
2012					395	380	366	352	1,039	2.5 - 3.5
2013						401	385	370	1,072	1.5 - 2.5
2014							410	393	1,121	0.5 - 1.5
2015								416	1,182	0.0 - 0.5
Total	1919	2222	2514	2796	3070	3333	3586	3827	9,199	

The shaded cells within the experience band equal the total exposures at the beginning of age interval 4.5–5.5 ($1,237). The same experience band would be used for the retirement matrix covering the same experience years of 2011 – 2013. This of course would result in a different OLT and original stub survivor than if the band had not been used. Analysts often use experience bands to isolate and analyze the effects of an operating environment over time.[60] Likewise, the use of experience bands allows analysis of the effects of an unusual environmental event. For example, if an unusually severe ice storm occurred in 2013, destruction from that storm would affect an electric utility's line transformers of all ages. That is, each of the line transformers from each placement year would be affected, including those recently installed in 2012, as well as those installed in 2003. Using experience bands, an analyst could isolate or even eliminate the 2013 experience year from the analysis. In contrast, a placement band would not effectively isolate the

[60] *Id.*

ice storm's effect on life characteristics. Rather, the placement band would show an unusually large rate of retirement during 2013, making it more difficult to accurately fit the data with a smooth Iowa curve. Experience bands tend to yield the most complete stub curves for recent bands because they have the greatest number of vintages included. Longer stub curves are better for forecasting. The experience bands, however, may also result in more erratic retirement dispersion making the curve fitting process more difficult.

Depreciation analysts must use professional judgment in determining the types of bands to use and the band widths. In practice, analysts may use various combinations of placement and experience bands in order to increase the data sample size, identify trends and changes in life characteristics, and isolate unusual events. Regardless of which bands are used, observed survivor curves in depreciation analysis rarely reach zero percent. This is because, as seen in the OLT above, relatively newer vintage groups have not yet been fully retired at the time the property is studied. An analyst could confine the analysis to older, fully retired vintage groups in order to get complete survivor curves, but such analysis would ignore some the property currently in service and would arguably not provide an accurate description of life characteristics for current plant in service. Because a complete curve is necessary to calculate the average life of the property group, however, curve fitting techniques using Iowa curves or other standardized curves may be employed in order to complete the stub curve.

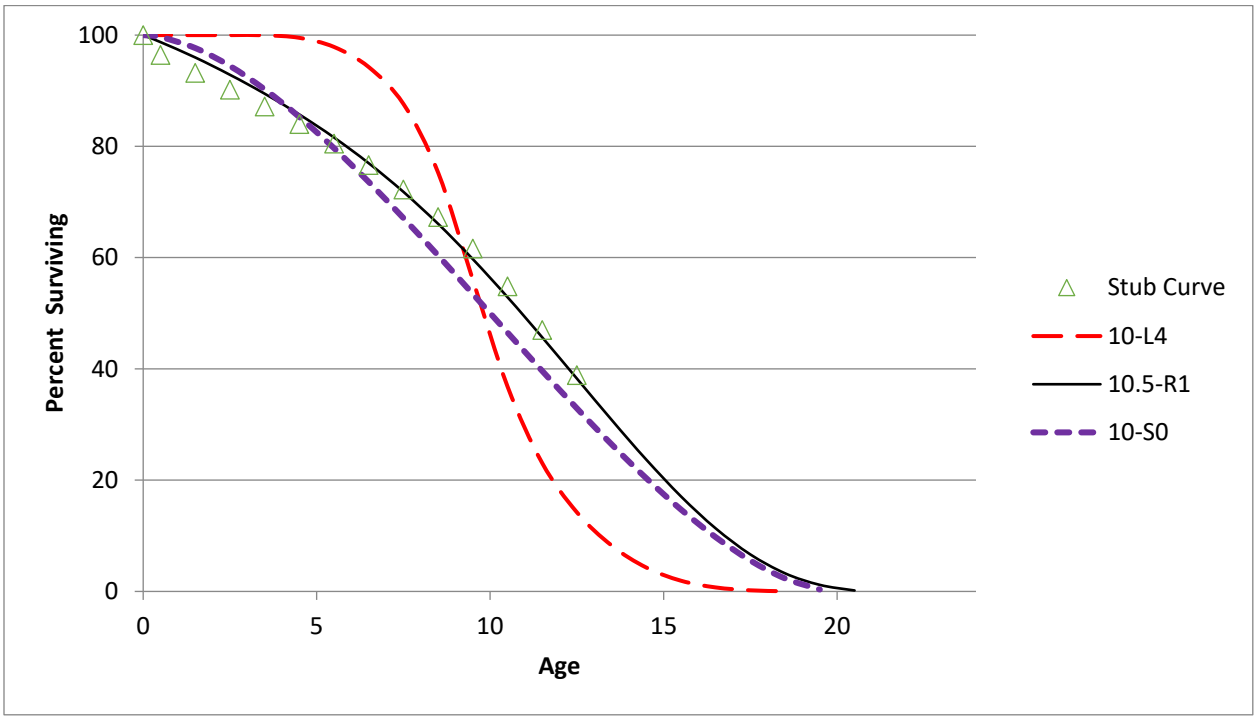
Curve Fitting

Depreciation analysts typically use the survivor curve rather than the frequency curve to fit the observed stub curves. The most commonly used generalized survivor curves used in the curve fitting process are the Iowa curves discussed above. As Wolf notes, if "the Iowa curves are

adopted as a model, an underlying assumption is that the process describing the retirement pattern is one of the 22 [or more] processes described by the Iowa curves."[61]

Curve fitting may be done through visual matching or mathematical matching. In visual curve fitting, the analyst visually examines the plotted data to make an initial judgment about the Iowa curves that may be a good fit. The figure below illustrates the stub survivor curve shown above. It also shows three different Iowa curves: the 10-L4, the 10.5-R1, and the 10-S0. Visually, it is clear that the 10.5-R1 curve is a better fit than the other two curves.

Figure 14:
Visual Curve Fitting



In mathematical fitting, the least squares method is used to calculate the best fit. This mathematical method would be excessively time consuming if done by hand. With the use of

[61] Wolf *supra* n. 15, at 46 (22 curves includes Winfrey's 18 original curves plus Cowles's four "O" type curves).

modern computer software however, mathematical fitting is an efficient and useful process. The typical logic for a computer program, as well as the software employed for the analysis in this testimony is as follows:

> First (an Iowa curve) curve is arbitrarily selected. . . . If the observed curve is a stub curve, . . . calculate the area under the curve and up to the age at final data point. Call this area the realized life. Then systematically vary the average life of the theoretical survivor curve and calculate its realized life at the age corresponding to the study date. This trial and error procedure ends when you find an average life such that the realized life of the theoretical curve equals the realized life of the observed curve. Call this the average life.
>
> Once the average life is found, calculate the difference between each percent surviving point on the observed survivor curve and the corresponding point on the Iowa curve. Square each difference and sum them. The sum of squares is used as a measure of goodness of fit for that particular Iowa type curve. This procedure is repeated for the remaining 21 Iowa type curves. The "best fit" is declared to be the type of curve that minimizes the sum of differences squared.[62]

Mathematical fitting requires less judgment from the analyst and is thus less subjective. Blind reliance on mathematical fitting, however, may lead to poor estimates. Thus, analysts should employ both mathematical and visual curve fitting in reaching their final estimates. This way, analysts may utilize the objective nature of mathematical fitting while still employing professional judgment. As Wolf notes: "The results of mathematical curve fitting serve as a guide for the analyst and speed the visual fitting process. But the results of the mathematical fitting should be checked visually and the final determination of the best fit be made by the analyst."[63]

In the graph above, visual fitting was sufficient to determine that the 10.5-R1 Iowa curve was a better fit than the 10-L4 and the 10-S0 curves. Using the sum of least squares method, mathematical fitting confirms the same result. In the chart below, the percentages surviving from

---

[62] Wolf *supra* n. 15, at 47.

[63] *Id*. at 48.

the OLT that formed the original stub curve are shown in the left column, while the corresponding percentages surviving for each age interval are shown for the three Iowa curves. The right portion of the chart shows the differences between the points on each Iowa curve and the stub curve. These differences are summed at the bottom. Curve 10.5-R1 is the best fit because the sum of the squared differences for this curve is less than the same sum of the other two curves. Curve 10-L4 is the worst fit, which was also confirmed visually.

Figure 15:
Mathematical Fitting

Age	Stub	Iowa Curves			Squared Differences		
Interval	Curve	10-L4	10-S0	10.5-R1	10-L4	10-S0	10.5-R1
0.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0
0.5	96.4	100.0	99.7	98.7	12.7	10.3	5.3
1.5	93.2	100.0	97.7	96.0	46.1	19.8	7.6
2.5	90.2	100.0	94.4	92.9	96.2	18.0	7.2
3.5	87.2	100.0	90.2	89.5	162.9	9.3	5.2
4.5	84.0	99.5	85.3	85.7	239.9	1.6	2.9
5.5	80.5	97.9	79.7	81.6	301.1	0.7	1.2
6.5	76.7	94.2	73.6	77.0	308.5	9.5	0.1
7.5	72.3	87.6	67.1	71.8	235.2	26.5	0.2
8.5	67.3	75.2	60.4	66.1	62.7	48.2	1.6
9.5	61.6	56.0	53.5	59.7	31.4	66.6	3.6
10.5	54.9	36.8	46.5	52.9	325.4	69.6	3.9
11.5	47.0	23.1	39.6	45.7	572.6	54.4	1.8
12.5	38.9	14.2	32.9	38.2	609.6	36.2	0.4
SUM					**3004.2**	**371.0**	**41.0**

5000 Carrington Pl.
Oklahoma City, OK 73131

DAVID J. GARRETT

(405) 249-1050
dgarrett@resolveuc.com

EDUCATION

University of Oklahoma — Norman, OK
Master of Business Administration — 2014
Areas of Concentration: Finance, Energy

University of Oklahoma College of Law — Norman, OK
Juris Doctor — 2007
Member, American Indian Law Review

University of Oklahoma — Norman, OK
Bachelor of Business Administration — 2003
Major: Finance

PROFESSIONAL DESIGNATIONS

Society of Depreciation Professionals
Certified Depreciation Professional (CDP)

Society of Utility and Regulatory Financial Analysts
Certified Rate of Return Analyst (CRRA)

WORK EXPERIENCE

Resolve Utility Consulting PLLC — Oklahoma City, OK
Managing Member — 2016 – Present
Provide expert analysis and testimony specializing in depreciation and cost of capital issues for clients in utility regulatory proceedings.

Oklahoma Corporation Commission — Oklahoma City, OK
Public Utility Regulatory Analyst — 2012 – 2016
Assistant General Counsel — 2011 – 2012
Represented commission staff in utility regulatory proceedings and provided legal opinions to commissioners. Provided expert analysis and testimony in depreciation, cost of capital, incentive compensation, payroll and other issues.

Perebus Counsel, PLLC — Oklahoma City, OK
Managing Member — 2009 – 2011
Represented clients in the areas of family law, estate planning, debt negotiations, business organization, and utility regulation.

Moricoli & Schovanec, P.C. — Oklahoma City, OK
Associate Attorney — 2007 – 2009
Represented clients in the areas of contracts, oil and gas, business structures and estate administration.

TEACHING EXPERIENCE

University of Oklahoma — Norman, OK
Adjunct Instructor – "Conflict Resolution" — 2014 – 2021
Adjunct Instructor – "Ethics in Leadership"

Rose State College — Midwest City, OK
Adjunct Instructor – "Legal Research" — 2013 – 2015
Adjunct Instructor – "Oil & Gas Law"

PROFESSIONAL ASSOCIATIONS

Oklahoma Bar Association — 2007 – Present

Society of Depreciation Professionals — 2014 – Present
Board Member – President — 2017
Participate in management of operations, attend meetings, review performance, organize presentation agenda.

Society of Utility Regulatory Financial Analysts — 2014 – Present

Utility Regulatory Proceedings

Regulatory Agency	Utility Applicant	Docket Number	Issues Addressed	Parties Represented
Pennsylvania Public Utility Commission	The York Water Company, et al	R-2025-3053442 R-2025-3053573	Cost of capital, awarded rate of return, capital structure	Pennsylvania Office of Consumer Advocate
Pennsylvania Public Utility Commission	UGI Utilities, Inc.	R-2024-3052716	Cost of capital, depreciation rates, net salvage	Pennsylvania Office of Consumer Advocate
Wyoming Public Service Commission	Rocky Mountain Power	20000-671-ER-24	Cost of capital and authorized rate of return	Wyoming Industrial Energy Consumers
Oklahoma Corporation Commission	Public Service Company of Oklahoma	PUD 2023-000086	Cost of capital, depreciation rates, net salvage	Oklahoma Industrial Energy Consumers
Public Service Commission of South Carolina	Piedmont Natural Gas Company	2022-89-G 2024-179-G	Depreciation rates, service lives, net salvage	South Carolina Office of Regulatory Staff
Florida Public Service Commission	Peoples Gas System	20250029-GU	Cost of capital, awarded rate of return, capital structure	Florida Office of Public Counsel
Public Service Commission of the State of Montana	NorthWestern Energy	2024.05.053	Cost of capital, depreciation rates, net salvage	Montana Consumer Counsel and Montana Large Customer Group
New York State Public Service Commission	Niagara Mohawk Power Corporation	24-E-0322 24-G-0323	Depreciation rates, service lives, net salvage, depreciation reserve	Utility Intervention Unit of the New York State Department of State's Division of Consumer Protection
Public Utilities Commission of Ohio	Ohio Edison Company, The Cleveland Electric Illuminating Company, and The Toledo Edison Company	24-468-EL-AIR, *et seq* .	Depreciation rates, service lives, net salvage	Office of the Ohio Consumers' Counsel
Public Utility Commission of Texas	El Paso Electric Company	PUC 57568	Depreciation rates, service lives, net salvage	The City of El Paso
Public Service Commission of Utah	Enbridge Gas Utah	25-057-06	Cost of capital, depreciation rates, net salvage	Office of Consumer Services
Pennsylvania Public Utility Commission	Pennsylvania-American Water Company	A-2025-3052983	Fair market value review (Elizabeth Borough)	Pennsylvania Office of Consumer Advocate
Commonwealth of Virginia State Corporation Commission	Virginia Electric and Power Company	PUR-2025-00058	Cost of capital, awarded rate of return, capital structure	Data Center Coalition
Delaware Public Service Commission	Delmarva Power & Light Company	24-1044	Cost of capital, depreciation rates, net salvage	Division of the Public Advocate

Utility Regulatory Proceedings

Regulatory Agency	Utility Applicant	Docket Number	Issues Addressed	Parties Represented
New York State Public Service Commission	Consolidated Edison Company of New York, Inc.	25-E-0072 25-G-0073	Depreciation rates, service lives, net salvage, depreciation reserve	Utility Intervention Unit of the New York State Department of State's Division of Consumer Protection
Pennsylvania Public Utility Commission	Columbia Gas of Pennsylvania	R-2025-3053499	Cost of capital, depreciation rates, net salvage	Pennsylvania Office of Consumer Advocate
Public Utility Commission of Texas	CenterPoint Energy Houston Electric	PUC 58028	System restoration costs	Texas Coast Utilities Coalition
Mississippi Public Service Commission	Atmos Energy Corporation	2025-UN-59	Depreciation rates, service lives, net salvage	Mississippi Public Utilities Staff
Public Service Commission of West Virginia	Appalachian Power Company and Wheeling Power Company	24-0854-E-42T	Cost of capital, awarded rate of return, capital structure	Consumer Advocate Division of the Public Service Commission of West Virginia
Public Service Commission of West Virginia	Appalachian Power Company and Wheeling Power Company	24-0670-E-D	Depreciation rates, service lives, net salvage	Consumer Advocate Division of the Public Service Commission of West Virginia
New Jersey Board of Public Utilities	Atlantic City Electric Company	ER24110854	Cost of capital, awarded rate of return, capital structure	Staff of the New Jersey Board of Public Utilities
Pennsylvania Public Utility Commission	Aqua Pennsylvania, Inc.	A-2022-3033138	Fair market value review (Beaver Falls)	Pennsylvania Office of Consumer Advocate
Mississippi Public Service Commission	Mississippi Power Company	2024-UN-117	Depreciation rates, service lives, net salvage	Mississippi Public Utilities Staff
Public Service Commission of the State of Montana	Montana-Dakota Utilities Company	2024.05.061	Cost of capital, depreciation rates, net salvage	Montana Consumer Counsel
Maryland Public Service Commission	Columbia Gas of Maryland	9754	Cost of capital, depreciation rates, net salvage	Maryland Office of People's Counsel
Railroad Commission of Texas	Atmos Energy, Mid-Tex Division	OS-24-00019196	Depreciation rates, service lives, net salvage	Atmos Texas Municipalities
Wyoming Public Service Commission	Montana-Dakota Utilities Co.	30013-415-GR-24	Depreciation rates, service lives, net salvage	Wyoming Office of Consumer Advocate
Indiana Utility Regulatory Commission	Duke Energy Indiana	46038	Cost of capital, depreciation rates, net salvage	Indiana Office of Utility Consumer Counselor

Utility Regulatory Proceedings

Regulatory Agency	Utility Applicant	Docket Number	Issues Addressed	Parties Represented
Railroad Commission of Texas	Atmos Energy, West Texas Division	OS-24-00018879	Depreciation rates, service lives, net salvage	The Cities of Amarillo, Lubbock, Dalhart, and Channing
Washington Utilities & Transportation Commission	Cascadia Water, LLC	UW-240151	Cost of capital, awarded rate of return, capital structure	Washington Office of Attorney General
Railroad Commission of Texas	West Texas Gas Utility	OS-24-00017816	Cost of capital, depreciation rates, net salvage	Alliance of WTG Municipalities
Maryland Public Service Commission	Washington Gas Light Company	9737	Cost of capital, awarded rate of return, capital structure	Maryland Office of People's Counsel
Railroad Commission of Texas	Texas Gas Services Company	OS-24-00017471	Depreciation rates, service lives, net salvage	The Steering Committee of Cities
Pennsylvania Public Utility Commission	Veolia Water Pennsylvania, Inc.	R-2024-3045192 R-2024-3045193	Cost of capital, depreciation rates, net salvage	Pennsylvania Office of Consumer Advocate
Pennsylvania Public Utility Commission	PECO Energy Company - Gas Division	R-2024-3046932	Cost of capital, awarded rate of return, capital structure	Pennsylvania Office of Consumer Advocate
Pennsylvania Public Utility Commission	PECO Energy Company - Electric Division	R-2024-3046931	Cost of capital, awarded rate of return, capital structure	Pennsylvania Office of Consumer Advocate
Oklahoma Corporation Commission	Oklahoma Gas & Electric Company	PUD 2023-000087	Cost of capital, depreciation rates, net salvage	Oklahoma Industrial Energy Consumers
Maryland Public Service Commission	Maryland Water Service, Inc.	9729	Cost of capital, awarded rate of return, capital structure	Maryland Office of People's Counsel
Kansas Corporation Commission	Kansas Gas Service	24-KGSG-610-RTS	Depreciation rates, service lives, net salvage	The Citizens' Utility Ratepayer Board
Pennsylvania Public Utility Commission	FirstEnergy Pennsylvania Electric Company	R-2024-3047068	Depreciation rates, service lives, net salvage	Pennsylvania Office of Consumer Advocate
Maryland Public Service Commission	Chesapeake Utilities Corporation Sandpiper Energy, Inc. Elkton Gas Company	9721	Depreciation rates, service lives, net salvage	Maryland Office of People's Counsel
Pennsylvania Public Utility Commission	Duquesne Light Company	R-2024-3046523	Cost of capital, depreciation rates, net salvage	Pennsylvania Office of Consumer Advocate

Utility Regulatory Proceedings

Regulatory Agency	Utility Applicant	Docket Number	Issues Addressed	Parties Represented
Public Utility Commission of Texas	CenterPoint Energy Houston Electric	PUC 56211	Depreciation rates, service lives, net salvage	Texas Coast Utilities Coalition
Washington Utilities & Transportation Commission	Avista Corporation	UE-240006 UG-240007	Cost of capital, awarded rate of return, capital structure	Washington Office of Attorney General
Public Utility Commission of Texas	AEP Texas Inc.	PUC 56165	Depreciation rates, service lives, net salvage	Cities Served by AEP Texas
Public Utilities Commission of Nevada	Southwest Gas Corporation	23-09012	Depreciation rates, service lives, net salvage	Bureau of Consumer Protection
Public Utilities Commission of the State of California	Southern California Edison	A.23-05-010	Depreciation rates, service lives, net salvage	The Utility Reform Network
Pennsylvania Public Utility Commission	Pennsylvania-American Water Company	R-2023-3043189 R-2023-3043190	Cost of capital, awarded rate of return, capital structure	Pennsylvania Office of Consumer Advocate
Indiana Utility Regulatory Commission	Northern Indiana Public Service Company	45967	Depreciation rates, service lives, net salvage	Indiana Office of Utility Consumer Counselor
Massachusetts Department of Public Utilities	Massachusetts Electric Company and Nantucket Electric Company D/B/A National Grid	D.P.U. 23-150	Depreciation rates, service lives, net salvage	Massachusetts Office of the Attorney General, Office of Ratepayer Advocacy
Iowa Utilities Board	Interstate Power and Light Company	RPU-2023-0002	Depreciation rates, service lives, net salvage	Office of Consumer Advocate
Public Service Commission of South Carolina	Duke Energy Carolinas	2023-388-E 2023-403-E	Depreciation rates, service lives, net salvage	South Carolina Office of Regulatory Staff
Indiana Utility Regulatory Commission	Citizens Energy Group	45988	Depreciation rates, service lives, net salvage	Indiana Office of Utility Consumer Counselor
Railroad Commission of Texas	CenterPoint Energy Resources Corp.	OS-23-00015513	Depreciation rates, service lives, net salvage	Alliance of CenterPoint Municipalities
Indiana Utility Regulatory Commission	CenterPoint Energy Indiana South	45990	Depreciation rates, service lives, net salvage	Indiana Office of Utility Consumer Counselor
Delaware Public Service Commission	Artesian Water Company, Inc.	23-0601	Cost of capital, depreciation rates, net salvage	Division of the Public Advocate

Utility Regulatory Proceedings

Regulatory Agency	Utility Applicant	Docket Number	Issues Addressed	Parties Represented
Maryland Public Service Commission	Washington Gas Light Company	9704	Cost of capital, awarded rate of return, capital structure	Maryland Office of People's Counsel
Delaware Public Service Commission	Veolia Water Delaware Inc.	23-0598	Cost of capital, awarded rate of return, capital structure	Division of the Public Advocate
Connecticut Public Utilities Regulatory Authority	United Illuminating Company	22-08-08	Depreciation rates, service lives, net salvage	PURA Staff
Public Utility Commission of Texas	Southwestern Public Service Company	PUC 54634	Depreciation rates, service lives, net salvage	Alliance of Xcel Municipalities
Railroad Commission of Texas	SiEnergy, LP	OS-23-00013504	Depreciation rates, service lives, net salvage	Texas municipal intervenor group
Pennsylvania Public Utility Commission	Aqua Pennsylvania, Inc.	A-2022-3034143	Fair market value review	Pennsylvania Office of Consumer Advocate
Wyoming Public Service Commission	Rocky Mountain Power	20000-633-ER-23	Cost of capital and authorized rate of return	Wyoming Industrial Energy Consumers
Maryland Public Service Commission	Potomac Electric Power Company	9702	Depreciation rates, service lives, net salvage	Maryland Office of People's Counsel
Public Utilities Commission of Nevada	Nevada Power Company d/b/a NV Energy	23-06007 23-06008	Depreciation rates, service lives, net salvage	Bureau of Consumer Protection
Public Utilities Commission of Ohio	Northeast Ohio Natural Gas Corp.	23-0154-GA-AIR	Cost of capital, awarded rate of return, capital structure	Office of the Ohio Consumers' Counsel
New York State Public Service Commission	The Brooklyn Union Gas Company and Keyspan Gas East Corporation d/b/a Nation Grid	23-G-0225 23-G-0226	Depreciation rates, service lives, net salvage, depreciation reserve	The City of New York
Idaho Public Utilities Commission	Idaho Power Company	IPC-E-23-11	Cost of capital, awarded rate of return, capital structure	Micron Technology, Inc.
Indiana Utility Regulatory Commission	Indiana Michigan Power Company	45933	Depreciation rates, service lives, net salvage	Indiana Office of Utility Consumer Counselor
Massachusetts Department of Public Utilities	Fitchburg Gas and Electric Company d/b/a Unitil	D.P.U. 23-80; D.P.U. 23-81	Depreciation rates, service lives, net salvage	Massachusetts Office of the Attorney General, Office of Ratepayer Advocacy

Utility Regulatory Proceedings

Regulatory Agency	Utility Applicant	Docket Number	Issues Addressed	Parties Represented
Kansas Corporation Commission	Evergy Kansas Central, Evergy Kansas South, and Evergy Metro	23-EKCE-775-RTS	Depreciation rates, service lives, net salvage	The Citizens' Utility Ratepayer Board
Delaware Public Service Commission	Delmarva Power & Light Company	22-0897	Cost of capital, awarded rate of return, capital structure	Division of the Public Advocate
Connecticut Public Utilities Regulatory Authority	Connecticut Water Company	23-08-32	Depreciation rates, service lives, net salvage	PURA Staff
Connecticut Public Utilities Regulatory Authority	Connecticut Natural Gas Corporation and The Southern Connecticut Gas Company	23-11-02	Depreciation rates, service lives, net salvage	PURA Staff
Railroad Commission of Texas	Atmos Pipeline – Texas	OS-23-00013758	Depreciation rates, service lives, net salvage	Atmos Texas Municipalities
Wyoming Public Service Commission	Black Hills Wyoming Gas	30026-78-GR-23	Depreciation rates, service lives, net salvage	Wyoming Office of Consumer Advocate
Indiana Utility Regulatory Commission	Indianapolis Power & Light Company d/b/a AES Indiana	45911	Depreciation rates, service lives, net salvage	Indiana Office of Utility Consumer Counselor
New Mexico Public Regulation Commission	Southwestern Public Service Company	22-00286-UT	Cost of capital, depreciation rates, net salvage	The New Mexico Large Customer Group; Occidental Permian
Public Utilities Commission of the State of California	Southern California Gas Company San Diego Gas & Electric Company	A.22-05-015 A.22-05-016	Depreciation rates, service lives, net salvage	The Utility Reform Network
Public Utilties Commission of the State of Colorado	Public Service Company of Colorado	22AL-0530E 22AL-0478E	Cost of capital, awarded rate of return, capital structure	Colorado Energy Consumers
New Mexico Public Regulatory Commission	Public Service Company of New Mexico	22-00270-UT	Cost of capital, depreciation rates, net salvage	The Albuquerque Bernalillo County Water Utility Authority
Florida Public Service Commission	Peoples Gas System	20230023-GU 20220219-GU 20220212-GU	Cost of capital, depreciation rates, net salvage	Florida Office of Public Counsel
Maryland Public Service Commission	Potomac Edison Company	9695	Cost of capital, depreciation rates, net salvage	Maryland Office of People's Counsel
Public Service Commission of the State of Montana	Montana-Dakota Utilities Company	2022.11.099	Depreciation rates, service lives, net salvage	Montana Consumer Counsel and Denbury Onshore

Utility Regulatory Proceedings

Regulatory Agency	Utility Applicant	Docket Number	Issues Addressed	Parties Represented
Indiana Utility Regulatory Commission	Indiana-American Water Company	45870	Depreciation rates, service lives, net salvage	Indiana Office of Utility Consumer Counselor
Public Service Commission of South Carolina	Dominion Energy South Carolina	2023-70-G	Depreciation rates, service lives, net salvage	South Carolina Office of Regulatory Staff
Maryland Public Service Commission	Columbia Gas of Maryland	9701	Cost of capital, awarded rate of return, capital structure	Maryland Office of People's Counsel
Pennsylvania Public Utility Commission	Columbia Water Company	R-2023-3040258	Cost of capital, awarded rate of return, capital structure	Pennsylvania Office of Consumer Advocate
Maryland Public Service Commission	Baltimore Gas and Electric Company	9692	Depreciation rates, service lives, net salvage	Maryland Office of People's Counsel
Arizona Corporation Commission	Arizona Public Service Company	E-01345A-22-0144	Cost of capital, awarded rate of return, capital structure	Residential Utility Consumer Office
Oklahoma Corporation Commission	Public Service Company of Oklahoma	PUD 2022-000093	Cost of capital, depreciation rates, net salvage	Oklahoma Industrial Energy Consumers
Public Service Commission of the State of Montana	NorthWestern Energy	2022.07.078	Cost of capital, depreciation rates, net salvage	Montana Consumer Counsel and Montana Large Customer Group
Indiana Utility Regulatory Commission	Northern Indiana Public Service Company	45772	Cost of capital, depreciation rates, net salvage	Indiana Office of Utility Consumer Counselor
Public Service Commission of South Carolina	Duke Energy Progress	2022-254-E	Depreciation rates, service lives, net salvage	South Carolina Office of Regulatory Staff
Wyoming Public Service Commission	Cheyenne Light, Fuel and Power Company D/B/A Black Hills Energy	20003-214-ER-22	Depreciation rates, service lives, net salvage	Wyoming Office of Consumer Advocate
Railroad Commission of Texas	Texas Gas Services Company	OS-22-00009896	Depreciation rates, service lives, net salvage	The City of El Paso
Public Utilities Commission of Nevada	Sierra Pacific Power Company	22-06014	Depreciation rates, service lives, net salvage	Bureau of Consumer Protection
Washington Utilities & Transportation Commission	Puget Sound Energy	UE-220066 UG-220067 UG-210918	Depreciation rates, service lives, net salvage	Washington Office of Attorney General

Utility Regulatory Proceedings

Regulatory Agency	Utility Applicant	Docket Number	Issues Addressed	Parties Represented
Public Utility Commission of Texas	Oncor Electric Delivery Company LLC	PUC 53601	Depreciation rates, service lives, net salvage	Alliance of Oncor Cities
Florida Public Service Commission	Florida Public Utilities Company	20220067-GU	Cost of capital, depreciation rates	Florida Office of Public Counsel
Public Utility Commission of Texas	Entergy Texas, Inc.	PUC 53719	Depreciation rates, decommissioning costs	Texas Municipal Group
Florida Public Service Commission	Florida City Gas	2020069-GU	Cost of capital, depreciation rates	Florida Office of Public Counsel
Connecticut Public Utilities Regulatory Authority	Aquarion Water Company of Connecticut	22-07-01	Depreciation rates, service lives, net salvage	PURA Staff
Washington Utilities & Transportation Commission	Avista Corporation	UE-220053 UG-220054 UE-210854	Cost of capital, awarded rate of return, capital structure	Washington Office of Attorney General
Federal Energy Regulatory Commission	ANR Pipeline Company	RP22-501-000	Depreciation rates, service lives, net salvage	Ascent Resources - Utica, LLC
Pennsylvania Public Utility Commission	Columbia Gas of Pennsylvania, Inc.	R-2022-3031211	Cost of capital, awarded rate of return, capital structure	Pennsylvania Office of Consumer Advocate
Public Service Commission of South Carolina	Piedmont Natural Gas Company	2022-89-G	Depreciation rates, service lives, net salvage	South Carolina Office of Regulatory Staff
Pennsylvania Public Utility Commission	UGI Utilities, Inc. - Gas Division	R-2021-3030218	Cost of capital, awarded rate of return, capital structure	Pennsylvania Office of Consumer Advocate
Public Utilities Commission of the State of California	Pacific Gas & Electric Company	A.21-06-021	Depreciation rates, service lives, net salvage	The Utility Reform Network
Pennsylvania Public Utility Commission	PECO Energy Company - Gas Division	R-2022-3031113	Cost of capital, awarded rate of return, capital structure	Pennsylvania Office of Consumer Advocate
Oklahoma Corporation Commission	Oklahoma Gas & Electric Company	PUD 202100164	Cost of capital, depreciation rates, net salvage	Oklahoma Industrial Energy Consumers
Massachusetts Department of Public Utilities	NSTAR Electric Company D/B/A Eversource Energy	D.P.U. 22-22	Depreciation rates, service lives, net salvage	Massachusetts Office of the Attorney General, Office of Ratepayer Advocacy

Utility Regulatory Proceedings

Regulatory Agency	Utility Applicant	Docket Number	Issues Addressed	Parties Represented
Michigan Public Service Company	DTE Electric Company	U-20836	Cost of capital, awarded rate of return, capital structure	Michigan Environmental Council and Citizens Utility Board of Michigan
New York State Public Service Commission	Consolidated Edison Company of New York, Inc.	22-E-0064 22-G-0065	Depreciation rates, service lives, net salvage, depreciation reserve	The City of New York
Pennsylvania Public Utility Commission	Aqua Pennsylvania Wastewater / East Whiteland Township	A-2021-3026132	Fair market value estimates for wastewater assets	Pennsylvania Office of Consumer Advocate
Public Service Commission of South Carolina	Kiawah Island Utility, Inc.	2021-324-WS	Cost of capital, awarded rate of return, capital structure	South Carolina Office of Regulatory Staff
Pennsylvania Public Utility Commission	Aqua Pennsylvania Wastewater / Willistown Township	A-2021-3027268	Fair market value estimates for wastewater assets	Pennsylvania Office of Consumer Advocate
Indiana Utility Regulatory Commission	Northern Indiana Public Service Company	45621	Depreciation rates, service lives, net salvage	Indiana Office of Utility Consumer Counselor
Arkansas Public Service Commission	Southwestern Electric Power Company	21-070-U	Cost of capital, depreciation rates, net salvage	Western Arkansas Large Energy Consumers
Federal Energy Regulatory Commission	Southern Star Central Gas Pipeline	RP21-778-002	Depreciation rates, service lives, net salvage	Consumer-Owned Shippers
Railroad Commission of Texas	Participating Texas gas utilities in consolidated proceeding	OS-21-00007061	Securitization of extraordinary gas costs arising from winter storms	The City of El Paso
Public Service Commission of South Carolina	Palmetto Wastewater Reclamation, Inc.	2021-153-S	Cost of capital, awarded rate of return, capital structure, ring-fencing	South Carolina Office of Regulatory Staff
Public Utilties Commission of the State of Colorado	Public Service Company of Colorado	21AL-0317E	Cost of capital, depreciation rates, net salvage	Colorado Energy Consumers
Pennsylvania Public Utility Commission	City of Lancaster - Water Department	R-2021-3026682	Cost of capital, awarded rate of return, capital structure	Pennsylvania Office of Consumer Advocate
Public Utility Commission of Texas	Southwestern Public Service Company	PUC 51802	Depreciation rates, service lives, net salvage	The Alliance of Xcel Municipalities
Pennsylvania Public Utility Commission	The Borough of Hanover - Hanover Municipal Waterworks	R-2021-3026116	Cost of capital, awarded rate of return, capital structure	Pennsylvania Office of Consumer Advocate

Utility Regulatory Proceedings

Regulatory Agency	Utility Applicant	Docket Number	Issues Addressed	Parties Represented
Maryland Public Service Commission	Delmarva Power & Light Company	9670	Cost of capital and authorized rate of return	Maryland Office of People's Counsel
Oklahoma Corporation Commission	Oklahoma Natural Gas Company	PUD 202100063	Cost of capital, awarded rate of return, capital structure	Oklahoma Industrial Energy Consumers
Indiana Utility Regulatory Commission	Indiana Michigan Power Company	45576	Depreciation rates, service lives, net salvage	Indiana Office of Utility Consumer Counselor
Public Utility Commission of Texas	El Paso Electric Company	PUC 52195	Depreciation rates, service lives, net salvage	The City of El Paso
Pennsylvania Public Utility Commission	Aqua Pennsylvania	R-2021-3027385	Cost of capital, awarded rate of return, capital structure	Pennsylvania Office of Consumer Advocate
Public Service Commission of the State of Montana	NorthWestern Energy	D2021.02.022	Cost of capital, awarded rate of return, capital structure	Montana Consumer Counsel
Pennsylvania Public Utility Commission	PECO Energy Company	R-2021-3024601	Cost of capital, awarded rate of return, capital structure	Pennsylvania Office of Consumer Advocate
New Mexico Public Regulation Commission	Southwestern Public Service Company	20-00238-UT	Cost of capital and authorized rate of return	The New Mexico Large Customer Group; Occidental Permian
Oklahoma Corporation Commission	Public Service Company of Oklahoma	PUD 202100055	Cost of capital, depreciation rates, net salvage	Oklahoma Industrial Energy Consumers
Pennsylvania Public Utility Commission	Duquesne Light Company	R-2021-3024750	Cost of capital, awarded rate of return, capital structure	Pennsylvania Office of Consumer Advocate
Maryland Public Service Commission	Columbia Gas of Maryland	9664	Cost of capital and authorized rate of return	Maryland Office of People's Counsel
Indiana Utility Regulatory Commission	Southern Indiana Gas Company, d/b/a Vectren Energy Delivery of Indiana, Inc.	45447	Depreciation rates, service lives, net salvage	Indiana Office of Utility Consumer Counselor
Public Utility Commission of Texas	Southwestern Electric Power Company	PUC 51415	Depreciation rates, service lives, net salvage	Cities Advocating Reasonable Deregulation
New Mexico Public Regulatory Commission	Avangrid, Inc., Avangrid Networks, Inc., NM Green Holdings, Inc., PNM, and PNM Resources	20-00222-UT	Ring fencing and capital structure	The Albuquerque Bernalillo County Water Utility Authority

Utility Regulatory Proceedings

Regulatory Agency	Utility Applicant	Docket Number	Issues Addressed	Parties Represented
Indiana Utility Regulatory Commission	Indiana Gas Company, d/b/a Vectren Energy Delivery of Indiana, Inc.	45468	Depreciation rates, service lives, net salvage	Indiana Office of Utility Consumer Counselor
Public Utilities Commission of Nevada	Nevada Power Company and Sierra Pacific Power Company, d/b/a NV Energy	20-07023	Construction work in progress	MGM Resorts International, Caesars Enterprise Services, LLC, and the Southern Nevada Water Authority
Massachusetts Department of Public Utilities	Boston Gas Company, d/b/a National Grid	D.P.U. 20-120	Depreciation rates, service lives, net salvage	Massachusetts Office of the Attorney General, Office of Ratepayer Advocacy
Public Service Commission of the State of Montana	ABACO Energy Services, LLC	D2020.07.082	Cost of capital and authorized rate of return	Montana Consumer Counsel
Maryland Public Service Commission	Washington Gas Light Company	9651	Cost of capital and authorized rate of return	Maryland Office of People's Counsel
Florida Public Service Commission	Utilities, Inc. of Florida	20200139-WS	Cost of capital and authorized rate of return	Florida Office of Public Counsel
New Mexico Public Regulatory Commission	El Paso Electric Company	20-00104-UT	Cost of capital, depreciation rates, net salvage	City of Las Cruces and Doña Ana County
Public Utilities Commission of Nevada	Nevada Power Company	20-06003	Cost of capital, awarded rate of return, capital structure, earnings sharing	MGM Resorts International, Caesars Enterprise Services, LLC, Wynn Las Vegas, LLC, Smart Energy Alliance, and Circus Circus Las Vegas, LLC
Wyoming Public Service Commission	Rocky Mountain Power	20000-578-ER-20	Cost of capital and authorized rate of return	Wyoming Industrial Energy Consumers
Florida Public Service Commission	Peoples Gas System	20200051-GU 20200166-GU	Cost of capital, depreciation rates, net salvage	Florida Office of Public Counsel
Wyoming Public Service Commission	Rocky Mountain Power	20000-539-EA-18	Depreciation rates, service lives, net salvage	Wyoming Industrial Energy Consumers
Public Service Commission of South Carolina	Dominion Energy South Carolina	2020-125-E	Depreciation rates, service lives, net salvage	South Carolina Office of Regulatory Staff
Pennsylvania Public Utility Commission	The City of Bethlehem	2020-3020256	Cost of capital, awarded rate of return, capital structure	Pennsylvania Office of Consumer Advocate
Railroad Commission of Texas	Texas Gas Services Company	GUD 10928	Depreciation rates, service lives, net salvage	Gulf Coast Service Area Steering Committee

Utility Regulatory Proceedings

Regulatory Agency	Utility Applicant	Docket Number	Issues Addressed	Parties Represented
Public Utilities Commission of the State of California	Southern California Edison	A.19-08-013	Depreciation rates, service lives, net salvage	The Utility Reform Network
Massachusetts Department of Public Utilities	NSTAR Gas Company	D.P.U. 19-120	Depreciation rates, service lives, net salvage	Massachusetts Office of the Attorney General, Office of Ratepayer Advocacy
Georgia Public Service Commission	Liberty Utilities (Peach State Natural Gas)	42959	Depreciation rates, service lives, net salvage	Public Interest Advocacy Staff
Florida Public Service Commission	Florida Public Utilities Company	20190155-El 20190156-El 20190174-El	Depreciation rates, service lives, net salvage	Florida Office of Public Counsel
Illinois Commerce Commission	Commonwealth Edison Company	20-0393	Depreciation rates, service lives, net salvage	The Office of the Illinois Attorney General
Public Utility Commission of Texas	Southwestern Public Service Company	PUC 49831	Depreciation rates, service lives, net salvage	Alliance of Xcel Municipalities
Public Service Commission of South Carolina	Blue Granite Water Company	2019-290-WS	Depreciation rates, service lives, net salvage	South Carolina Office of Regulatory Staff
Railroad Commission of Texas	CenterPoint Energy Resources	GUD 10920	Depreciation rates and grouping procedure	Alliance of CenterPoint Municipalities
Pennsylvania Public Utility Commission	Aqua Pennsylvania Wastewater / East Norriton Township	A-2019-3009052	Fair market value estimates for wastewater assets	Pennsylvania Office of Consumer Advocate
New Mexico Public Regulation Commission	Southwestern Public Service Company	19-00170-UT	Cost of capital and authorized rate of return	The New Mexico Large Customer Group; Occidental Permian
Indiana Utility Regulatory Commission	Duke Energy Indiana	45253	Cost of capital, depreciation rates, net salvage	Indiana Office of Utility Consumer Counselor
Maryland Public Service Commission	Columbia Gas of Maryland	9609	Depreciation rates, service lives, net salvage	Maryland Office of People's Counsel
Washington Utilities & Transportation Commission	Avista Corporation	UE-190334	Cost of capital, awarded rate of return, capital structure	Washington Office of Attorney General
Indiana Utility Regulatory Commission	Indiana Michigan Power Company	45235	Cost of capital, depreciation rates, net salvage	Indiana Office of Utility Consumer Counselor

Utility Regulatory Proceedings

Regulatory Agency	Utility Applicant	Docket Number	Issues Addressed	Parties Represented
Public Utilities Commission of the State of California	Pacific Gas & Electric Company	18-12-009	Depreciation rates, service lives, net salvage	The Utility Reform Network
Oklahoma Corporation Commission	The Empire District Electric Company	PUD 201800133	Cost of capital, authorized ROE, depreciation rates	Oklahoma Industrial Energy Consumers and Oklahoma Energy Results
Arkansas Public Service Commission	Southwestern Electric Power Company	19-008-U	Cost of capital, depreciation rates, net salvage	Western Arkansas Large Energy Consumers
Public Utility Commission of Texas	CenterPoint Energy Houston Electric	PUC 49421	Depreciation rates, service lives, net salvage	Texas Coast Utilities Coalition
Massachusetts Department of Public Utilities	Massachusetts Electric Company and Nantucket Electric Company	D.P.U. 18-150	Depreciation rates, service lives, net salvage	Massachusetts Office of the Attorney General, Office of Ratepayer Advocacy
Oklahoma Corporation Commission	Oklahoma Gas & Electric Company	PUD 201800140	Cost of capital, authorized ROE, depreciation rates	Oklahoma Industrial Energy Consumers and Oklahoma Energy Results
Public Service Commission of the State of Montana	Montana-Dakota Utilities Company	D2018.9.60	Depreciation rates, service lives, net salvage	Montana Consumer Counsel and Denbury Onshore
Indiana Utility Regulatory Commission	Northern Indiana Public Service Company	45159	Depreciation rates, grouping procedure, demolition costs	Indiana Office of Utility Consumer Counselor
Public Service Commission of the State of Montana	NorthWestern Energy	D2018.2.12	Depreciation rates, service lives, net salvage	Montana Consumer Counsel
Oklahoma Corporation Commission	Public Service Company of Oklahoma	PUD 201800097	Depreciation rates, service lives, net salvage	Oklahoma Industrial Energy Consumers and Wal-Mart
Nevada Public Utilities Commission	Southwest Gas Corporation	18-05031	Depreciation rates, service lives, net salvage	Nevada Bureau of Consumer Protection
Public Utility Commission of Texas	Texas-New Mexico Power Company	PUC 48401	Depreciation rates, service lives, net salvage	Alliance of Texas-New Mexico Power Municipalities
Oklahoma Corporation Commission	Oklahoma Gas & Electric Company	PUD 201700496	Depreciation rates, service lives, net salvage	Oklahoma Industrial Energy Consumers and Oklahoma Energy Results
Maryland Public Service Commission	Washington Gas Light Company	9481	Depreciation rates, service lives, net salvage	Maryland Office of People's Counsel

Utility Regulatory Proceedings

Regulatory Agency	Utility Applicant	Docket Number	Issues Addressed	Parties Represented
Indiana Utility Regulatory Commission	Citizens Energy Group	45039	Depreciation rates, service lives, net salvage	Indiana Office of Utility Consumer Counselor
Public Utility Commission of Texas	Entergy Texas, Inc.	PUC 48371	Depreciation rates, decommissioning costs	Texas Municipal Group
Washington Utilities & Transportation Commission	Avista Corporation	UE-180167	Depreciation rates, service lives, net salvage	Washington Office of Attorney General
New Mexico Public Regulation Commission	Southwestern Public Service Company	17-00255-UT	Cost of capital and authorized rate of return	HollyFrontier Navajo Refining; Occidental Permian
Public Utility Commission of Texas	Southwestern Public Service Company	PUC 47527	Depreciation rates, plant service lives	Alliance of Xcel Municipalities
Public Service Commission of the State of Montana	Montana-Dakota Utilities Company	D2017.9.79	Depreciation rates, service lives, net salvage	Montana Consumer Counsel
Florida Public Service Commission	Florida City Gas	20170179-GU	Cost of capital, depreciation rates	Florida Office of Public Counsel
Washington Utilities & Transportation Commission	Avista Corporation	UE-170485	Cost of capital and authorized rate of return	Washington Office of Attorney General
Wyoming Public Service Commission	Powder River Energy Corporation	10014-182-CA-17	Credit analysis, cost of capital	Private customer
Oklahoma Corporation Commission	Public Service Co. of Oklahoma	PUD 201700151	Depreciation, terminal salvage, risk analysis	Oklahoma Industrial Energy Consumers
Public Utility Commission of Texas	Oncor Electric Delivery Company	PUC 46957	Depreciation rates, simulated analysis	Alliance of Oncor Cities
Nevada Public Utilities Commission	Nevada Power Company	17-06004	Depreciation rates, service lives, net salvage	Nevada Bureau of Consumer Protection
Public Utility Commission of Texas	El Paso Electric Company	PUC 46831	Depreciation rates, interim retirements	City of El Paso
Idaho Public Utilities Commission	Idaho Power Company	IPC-E-16-24	Accelerated depreciation of North Valmy plant	Micron Technology, Inc.

Utility Regulatory Proceedings

Regulatory Agency	Utility Applicant	Docket Number	Issues Addressed	Parties Represented
Idaho Public Utilities Commission	Idaho Power Company	IPC-E-16-23	Depreciation rates, service lives, net salvage	Micron Technology, Inc.
Public Utility Commission of Texas	Southwestern Electric Power Company	PUC 46449	Depreciation rates, decommissioning costs	Cities Advocating Reasonable Deregulation
Massachusetts Department of Public Utilities	Eversource Energy	D.P.U. 17-05	Cost of capital, capital structure, and rate of return	Sunrun Inc.; Energy Freedom Coalition of America
Railroad Commission of Texas	Atmos Pipeline - Texas	GUD 10580	Depreciation rates, grouping procedure	City of Dallas
Public Utility Commission of Texas	Sharyland Utility Company	PUC 45414	Depreciation rates, simulated analysis	City of Mission
Oklahoma Corporation Commission	Empire District Electric Company	PUD 201600468	Cost of capital, depreciation rates	Oklahoma Industrial Energy Consumers
Railroad Commission of Texas	CenterPoint Energy Texas Gas	GUD 10567	Depreciation rates, simulated plant analysis	Texas Coast Utilities Coalition
Arkansas Public Service Commission	Oklahoma Gas & Electric Company	160-159-GU	Cost of capital, depreciation rates, terminal salvage	Arkansas River Valley Energy Consumers; Wal-Mart
Florida Public Service Commission	Peoples Gas	160-159-GU	Depreciation rates, service lives, net salvage	Florida Office of Public Counsel
Arizona Corporation Commission	Arizona Public Service Company	E-01345A-16-0036	Cost of capital, depreciation rates, terminal salvage	Energy Freedom Coalition of America
Nevada Public Utilities Commission	Sierra Pacific Power Company	16-06008	Depreciation rates, net salvage, theoretical reserve	Northern Nevada Utility Customers
Oklahoma Corporation Commission	Oklahoma Gas & Electric Co.	PUD 201500273	Cost of capital, depreciation rates, terminal salvage	Public Utility Division
Oklahoma Corporation Commission	Public Service Co. of Oklahoma	PUD 201500208	Cost of capital, depreciation rates, terminal salvage	Public Utility Division
Oklahoma Corporation Commission	Oklahoma Natural Gas Company	PUD 201500213	Cost of capital, depreciation rates, net salvage	Public Utility Division

Proxy Group Summary

Company	Ticker	Market Cap. ($ millions)	Market Category	Value Line Safety Rank	Financial Strength
American States Water Co	AWR	2,900	Mid Cap	1	A
American Water Works Co Inc	AWK	25,700	Large Cap	2	B++
California Water Service Gp	CWT	2,600	Mid Cap	2	B++
Essential Utilities, Inc.	WTRG	10,900	Large Cap	2	A
Middlesex Water Co	MSEX	950	Small Cap	3	A
H2O America	HTO	1,800	Small Cap	3	B+

Value Line Investment Survey

DCF - Stock and Index Prices

Exhibit DJG-3

Ticker	^GSPC	AWR	AWK	CWT	WTRG	MSEX	HTO
30-day Average	6874	73.08	130.40	43.67	38.35	51.65	49.15
Standard Deviation	59.6	0.70	1.74	0.71	0.55	0.96	1.43
12/01/25	6813	73.45	131.00	45.21	39.37	51.25	46.86
12/02/25	6829	72.89	130.75	44.75	38.85	50.88	47.45
12/03/25	6850	72.96	130.97	44.51	38.86	51.14	48.00
12/04/25	6857	72.44	128.93	44.29	37.90	51.35	47.52
12/05/25	6870	73.17	129.50	44.88	38.00	51.91	47.91
12/08/25	6847	71.80	128.46	43.60	37.46	51.04	46.59
12/09/25	6841	71.86	128.15	42.31	37.23	50.92	46.58
12/10/25	6887	72.69	128.72	42.81	37.16	51.39	47.95
12/11/25	6901	72.91	130.09	43.25	37.67	52.15	48.46
12/12/25	6827	73.95	131.55	44.17	37.95	53.05	49.05
12/15/25	6817	73.97	134.13	43.81	38.43	53.07	48.87
12/16/25	6800	73.73	132.72	43.90	38.31	53.25	49.36
12/17/25	6721	74.12	134.01	43.96	39.01	53.41	50.05
12/18/25	6775	73.96	133.02	43.86	38.67	53.52	49.95
12/19/25	6835	73.08	130.25	42.88	37.93	51.70	48.95
12/22/25	6878	73.68	131.67	43.28	38.57	52.14	49.80
12/23/25	6910	73.36	130.75	43.05	38.43	51.61	49.45
12/24/25	6932	73.56	131.28	43.29	38.57	51.72	49.40
12/26/25	6930	73.04	130.55	43.41	38.57	51.45	48.83
12/29/25	6906	73.08	130.95	43.56	38.71	51.40	48.89
12/30/25	6896	73.11	131.13	43.57	38.45	50.94	49.26
12/31/25	6846	72.48	130.50	43.33	38.36	50.42	48.99
01/02/26	6858	72.26	130.32	42.95	38.67	50.27	49.25
01/05/26	6902	71.62	127.40	42.54	37.79	50.20	49.86
01/06/26	6945	72.54	128.97	43.33	38.48	50.94	50.65
01/07/26	6921	72.52	127.27	43.24	38.02	50.42	50.52
01/08/26	6921	72.90	129.27	43.66	38.48	50.98	50.52
01/09/26	6966	73.20	127.98	43.61	38.32	51.70	51.59
01/12/26	6977	74.32	130.30	44.58	39.15	52.80	51.81
01/13/26	6964	73.82	131.26	44.52	39.19	52.56	52.11

All prices are adjusted closing prices reported by Yahoo! Finance, http://finance.yahoo.com

DCF - Dividend Yields

Company	Ticker	[1] Annualized Dividend	[2] Stock Price	[3] Dividend Yield
American States Water Co	AWR	2.02	73.08	2.76%
American Water Works Co Inc	AWK	3.31	130.40	2.54%
California Water Service Gp	CWT	1.20	43.67	2.75%
Essential Utilities, Inc.	WTRG	1.37	38.35	3.57%
Middlesex Water Co	MSEX	1.38	51.65	2.67%
H2O America	HTO	1.68	49.15	3.42%
Average		**$1.83**	**$64.38**	**2.95%**

[1] Yahoo Finance

[2] Average stock price from Exhibit DJG-3

[3] = [1] / [2]

DCF - Terminal Growth Rate Determinants

DCF Growth Rate Indicators	Rate
Nominal GDP	3.7%
Real GDP	1.6%
Long-Term Growth Ceiling	**3.7%**

CBO, The 2025 Long-Term Budget Outlook, p. 32

DCF - Final Result

Company	Ticker	[1] Dividend Yield	[2] Analyst Growth	[3] Sustainable Growth	[4] DCF Result (Analyst Growth)	[5] DCF Result (Sustainable Growth)
American States Water Co	AWR	2.8%	8.0%	3.7%	11.0%	6.6%
American Water Works Co Inc	AWK	2.5%	8.5%	3.7%	11.3%	6.3%
California Water Service Gp	CWT	2.7%	5.5%	3.7%	8.4%	6.5%
Essential Utilities, Inc.	WTRG	3.6%	6.5%	3.7%	10.3%	7.4%
Middlesex Water Co	MSEX	2.7%	4.5%	3.7%	7.3%	6.5%
H2O America	HTO	3.4%	4.0%	3.7%	7.6%	7.2%
Average		**3.0%**	**6.2%**	**3.7%**	**9.3%**	**6.8%**

[1] Dividend Yield from Exhibit DJG-4
[2] Forecasted dividend growth rates - Value Line
[3] Sustainable growth rate from Exhibit DJG-5
[4] Annual Compounding DCF = $D_0 (1 + g) / P_0 + g$ (using analyst growth rate)
[5] Annual Compounding DCF = $D_0 (1 + g) / P_0 + g$ (using sustainable growth rate)

CAPM - Risk-Free Rate Estimate

Date	Rate
01/13/26	4.83%
01/12/26	4.83%
01/09/26	4.82%
01/08/26	4.85%
01/07/26	4.82%
01/06/26	4.86%
01/05/26	4.85%
01/02/26	4.86%
12/31/25	4.84%
12/30/25	4.81%
12/29/25	4.80%
12/26/25	4.81%
12/24/25	4.79%
12/23/25	4.83%
12/22/25	4.84%
12/19/25	4.82%
12/18/25	4.80%
12/17/25	4.83%
12/16/25	4.82%
12/15/25	4.84%
12/12/25	4.85%
12/11/25	4.79%
12/10/25	4.78%
12/09/25	4.80%
12/08/25	4.81%
12/05/25	4.79%
12/04/25	4.76%
12/03/25	4.73%
12/02/25	4.74%
12/01/25	4.74%
Average	**4.81%**

*Daily Treasury Yield Curve Rates on 30-year T-bonds,
http://www.treasury.gov/resources-center/data-chart-center/interest-rates/

CAPM - Beta Coefficients

Company	Ticker	Beta
American States Water Co	AWR	0.75
American Water Works Co Inc	AWK	0.80
California Water Service Gp	CWT	0.80
Essential Utilities, Inc.	WTRG	0.80
Middlesex Water Co	MSEX	0.80
H2O America	HTO	0.75
Average		0.78

Value Line Betas from Value Line Investment Survey

CAPM - Implied Equity Risk Premium Estimate

Year	[1] Market Value	[2] Operating Earnings	[3] Dividends	[4] Buybacks	[5] Earnings Yield	[6] Dividend Yield	[7] Buyback Yield	[8] Gross Cash Yield
2014	18,245	1,004	350	553	5.50%	1.92%	3.03%	4.95%
2015	17,900	885	382	572	4.95%	2.14%	3.20%	5.33%
2016	19,268	920	397	536	4.77%	2.06%	2.78%	4.85%
2017	22,821	1,066	420	519	4.67%	1.84%	2.28%	4.12%
2018	21,027	1,282	456	806	6.10%	2.17%	3.84%	6.01%
2019	26,760	1,305	485	729	4.88%	1.81%	2.72%	4.54%
2020	31,659	1,019	480	520	3.22%	1.52%	1.64%	3.16%
2021	40,356	1,739	511	882	4.31%	1.27%	2.18%	3.45%
2022	32,133	1,656	565	923	5.15%	1.76%	2.87%	4.63%
2023	36,870	1,790	588	795	4.85%	1.60%	2.16%	3.75%
2024	49,805	1,968	630	943	3.95%	1.26%	1.89%	3.16%

Cash Yield	4.36%	[9]
Growth Rate	6.96%	[10]
Risk-free Rate	4.81%	[11]
Current Index Value	6,874	[12]

Year	[13] 1	[14] 2	[15] 3	[16] 4	[17] 5
Expected Dividends	320	343	367	392	419
Expected Terminal Value					8770
Present Value	292	284	277	269	5752
Intrinsic Index Value	6874	[18]			
Required Return on Market	9.8%	[19]			
Implied Equity Risk Premium	**5.0%**	[20]			

[1-4] S&P Quarterly Press Releases, data found at https://us.spindices.com/indices/equity/sp-500 (additional info tab) (all dollar figures are in $ billions)
[1] Market value of S&P 500
[5] = [2] / [1]
[6] = [3] / [1]
[7] = [4] / [1]
[8] = [6] + [7]
[9] = Average of [8]
[10] = Compund annual growth rate of [2] = (end value / beginning value)^ $^{1/10}$-1
[11] Risk-free rate from DJG risk-free rate exhibit
[12] 30-day average of closing index prices from DJG stock price exhibit
[13-16] Expected dividends = [9]*[12]*(1+[10])^{n} ; Present value = expected dividend / (1+[11]+[19])^{n}
[17] Expected terminal value = expected dividend * (1+[11]) / [19] ; Present value = (expected dividend + expected terminal value) / (1+[11]+[19])^{n}
[18] = Sum([13-17]) present values.
[19] = [20] + [11]
[20] Internal rate of return calculation setting [18] equal to [12] and solving for the discount rate

CAPM - Equity Risk Premium Results

IESE Business School Survey	5.5%	[1]
Kroll (Duff & Phelps) Report	5.0%	[2]
Damodaran (average)	4.4%	[3]
Garrett	5.0%	[4]
Average	**5.0%**	

CAPM - Final Results

Company	Ticker	[1] Beta	[2] CAPM Result
American States Water Co	AWR	0.75	8.6%
American Water Works Co Inc	AWK	0.80	8.8%
California Water Service Gp	CWT	0.80	8.8%
Essential Utilities, Inc.	WTRG	0.80	8.8%
Middlesex Water Co	MSEX	0.80	8.8%
H2O America	HTO	0.75	8.6%
Average			**8.7%**
Risk-free Rate	[3]	4.8%	
Equity Risk Premium	[4]	5.0%	

[1] From Exhibit DJG-8

[2] = [3] + [1] * [4]

[3] From Exhibit DJG-7

[4] From Exhibit DJG-10

Cost of Equity Summary

Model	Cost of Equity
Capital Asset Pricing Model	8.7%
DCF Model (Analyst Growth)	9.3%
DCF Model (Sustainable Growth)	6.8%
Model Average	8.3%
Recommended ROE	**8.7%**

Final Rate of Return Recommendation

Water Operations

Capital Component	Proposed Ratio	Cost Rate	Weighted Cost
Long-term Debt	43.7%	4.71%	2.06%
Common Equity	56.3%	8.70%	4.90%
Total	100.0%		6.96%

Wastewater Operations

Capital Component	Proposed Ratio	Cost Rate	Weighted Cost
Long-term Debt	41.6%	4.71%	1.96%
WW-Specific LTD	6.88%	2.20%	0.15%
Common Equity	51.5%	8.70%	4.48%
Total	100.0%		6.59%

Summary Rate and Accrual Adjustment

2025 DEPRECIATION STUDY

Plant Operations	Plant 6/30/2025	PAWC Position Rate	PAWC Position Annual Accrual	OCA Position Rate	OCA Position Annual Accrual	OCA Adjustment Rate	OCA Adjustment Annual Accrual
Water Operations	$ 6,992,541,594	2.73%	$ 190,896,455	2.20%	$ 154,040,446	-0.53%	$ (36,856,009)
Wastewater Sanitary Sewer System (SSS)	950,534,878	2.81%	26,745,064	2.17%	20,638,871	-0.64%	(6,106,193)
Butler Area Sewer Authority (BASA)	216,442,587	5.02%	10,875,378	3.27%	7,071,721	-1.76%	(3,803,657)
Wastewater Combined Sewer System (CSS)	860,956,397	2.21%	19,043,262	1.82%	15,662,376	-0.39%	(3,380,886)
TOTAL PLANT STUDIED	**$ 9,020,475,456**	**2.74%**	**$ 247,560,159**	**2.19%**	**$ 197,413,414**	**-0.56%**	**$ (50,146,745)**

2026 DEPRECIATION STUDY

Plant Operations	Plant 6/30/2026	Lancaster Position Rate	Lancaster Position Annual Accrual	OCA Position Rate	OCA Position Annual Accrual	OCA Adjustment Rate	OCA Adjustment Annual Accrual
Water Operations	$ 7,377,544,075	2.64%	$ 194,622,280	2.14%	$ 157,589,083	-0.50%	$ (37,033,197)
Wastewater Sanitary Sewer System (SSS)	969,876,030	2.72%	26,421,463	2.13%	20,632,278	-0.60%	(5,789,185)
Butler Area Sewer Authority (BASA)	220,462,501	4.86%	10,716,015	3.10%	6,833,684	-1.76%	(3,882,331)
Wastewater Combined Sewer System (CSS)	877,353,456	2.16%	18,983,484	1.81%	15,870,260	-0.35%	(3,113,224)
Elizabeth Borough Wastewater	26,630,061	4.00%	1,064,881	2.75%	732,425	-1.25%	(332,456)
TOTAL PLANT STUDIED	**$ 9,471,866,123**	**2.66%**	**$ 251,808,123**	**2.13%**	**$ 201,657,731**	**-0.53%**	**$ (50,150,392)**

2027 DEPRECIATION STUDY

Plant Operations	Plant 6/30/2027	Lancaster Position Rate	Lancaster Position Annual Accrual	OCA Position Rate	OCA Position Annual Accrual	OCA Adjustment Rate	OCA Adjustment Annual Accrual
Water Operations	$ 7,870,892,434	2.59%	$ 204,148,039	2.12%	$ 167,195,229	-0.47%	$ (36,952,810)
Wastewater Sanitary Sewer System (SSS)	1,009,133,906	2.67%	26,943,479	2.10%	21,141,801	-0.57%	(5,801,678)
Butler Area Sewer Authority (BASA)	258,932,616	4.36%	11,299,118	2.87%	7,431,909	-1.49%	(3,867,209)
Wastewater Combined Sewer System (CSS)	919,949,031	2.13%	19,602,347	1.81%	16,619,156	-0.32%	(2,983,191)
Elizabeth Borough Wastewater	28,013,222	3.70%	1,035,500	2.65%	742,790	-1.04%	(292,710)
TOTAL PLANT STUDIED	**$ 10,086,921,209**	**2.61%**	**$ 263,028,483**	**2.11%**	**$ 213,130,885**	**-0.49%**	**$ (49,897,598)**

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2025	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
	Water Operations							
303.14	WATER RIGHTS - HIBERNIA	1,942,823	0.00%	0	0.00%	0	0.00%	0
303.35	WASTE HANDLING AND TREATMENT LAND	155,025	0.95%	1,469	0.22%	340	-0.73%	-1,129
303.99	COMPREHENSIVE PLANNING STUDIES	15,016,673	17.54%	2,634,187	17.77%	2,668,093	0.23%	33,906
304.15	OTHER WATER SOURCE STRUCTURES	123,441,839	2.87%	3,537,013	2.06%	2,546,015	-0.81%	-990,998
304.20	POWER AND PUMING STRUCTURES							
	LARGE STRUCTURES	56,902,089	2.99%	1,703,178	1.39%	790,434	-1.60%	-912,744
	OTHER STRUCTURES	76,998,499	2.65%	2,040,014	2.10%	1,616,202	-0.55%	-423,812
	TOTAL ACCOUNT 304.20	133,900,588	2.80%	3,743,192	1.80%	2,406,637	-1.00%	-1,336,555
304.30	PURIFICATION BUILDINGS							
	LARGE STRUCTURES	359,356,537	2.52%	9,062,538	1.60%	5,753,282	-0.92%	-3,309,256
	OTHER STRUCTURES	72,988,764	1.84%	1,341,037	1.61%	1,178,422	-0.23%	-162,615
	TOTAL ACCOUNT 304.30	432,345,301	2.41%	10,403,575	1.60%	6,931,704	-0.80%	-3,471,871
304.36	WASTE HANDLING AND TREATMENT STRUCTURES	28,441,582	3.64%	1,034,372	1.72%	489,636	-1.92%	-544,736
304.38	WASTE HANDLING AND TREATMENT STRUCTURES PAINTING	1,403,439	9.40%	131,911	9.40%	131,911	0.00%	0
304.39	PURIFICATION BUILDINGS - TANK PAINTING	968,752	8.70%	84,276	8.70%	84,276	0.00%	0
304.61	OFFICE BUILDINGS							
	LARGE STRUCTURES	29,028,974	3.70%	1,073,520	1.56%	452,453	-2.14%	-621,067
	OTHER OTHER STRUCTURES	14,996,301	2.25%	337,561	1.98%	296,425	-0.27%	-41,136
	TOTAL ACCOUNT 304.61	44,025,275	3.21%	1,411,081	1.70%	748,878	-1.50%	-662,203
304.62	STORES, SHOP AND GARAGE BUILDINGS							
	LARGE STRUCTURES	59,397,332	2.39%	1,422,158	1.45%	863,504	-0.94%	-558,654
	OTHER OTHER STRUCTURES	9,322,958	1.59%	148,061	1.71%	159,418	0.12%	11,357
	TOTAL ACCOUNT 304.62	68,720,290	2.28%	1,570,219	1.49%	1,022,922	-0.80%	-547,297
304.65	MISCELLANEOUS STRUCTURES AND IMPROVEMENTS	5,101,932	0.41%	20,674	0.35%	18,072	-0.06%	-2,602
305.00	COLLECTING AND IMPOUNDING RESERVOIRS							
	LARGE RESERVOIRS	141,430,066	1.43%	2,024,922	1.43%	2,025,122	0.00%	200
	OTHER RESERVOIRS	13,870,315	1.78%	247,339	1.39%	193,348	-0.39%	-53,991
	TOTAL ACCOUNT 305.00	155,300,381	1.46%	2,272,261	1.43%	2,218,470	-0.03%	-53,791
306.00	LAKE, RIVER AND OTHER INTAKES							
	LARGE RESERVOIRS	12,329,112	2.29%	282,915	1.88%	231,763	-0.41%	-51,152
	OTHER RESERVOIRS	5,495,248	2.53%	139,287	1.96%	107,831	-0.57%	-31,456
	TOTAL ACCOUNT 306.00	17,824,361	2.37%	422,202	1.91%	339,594	-0.46%	-82,608

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2025	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
307.00	WELLS AND SPRINGS	12,806,671	2.16%	276,505	1.63%	208,724	-0.53%	-67,781
310.00	POWER GENERATION EQUIPMENT	26,827,156	2.63%	706,792	1.99%	533,071	-0.64%	-173,721
	PUMPING EQUIPMENT							
311.20	ELECTRIC PUMPING EQUIPMENT	17,440,625	3.25%	566,011	2.36%	412,377	-0.89%	-153,634
311.50	OTHER	26,945,408	3.83%	1,031,491	2.49%	672,154	-1.34%	-359,337
311.52	SOURCE OF SUPPLY	11,405,625	3.24%	369,708	2.36%	268,933	-0.88%	-100,775
311.53	WATER TREATMENT	48,154,022	2.78%	1,339,347	2.29%	1,104,034	-0.49%	-235,313
311.54	TRANSMISSION AND DISTRIBUTION	9,832,787	3.30%	324,570	2.39%	234,546	-0.91%	-90,024
	TOTAL ACCOUNT 311.00	113,778,467	3.19%	3,631,127	2.37%	2,692,044	-0.83%	-939,083
	PURIFICATION SYSTEM							
320.10	LARGE STRUCTURES	224,431,803	2.50%	5,610,552	1.73%	3,881,270	-0.77%	-1,729,282
320.11	OTHER LARGE STRUCTURES	15,760,524	1.92%	303,080	1.93%	303,505	0.01%	425
	TOTAL ACCOUNT 320.10	240,192,327	2.46%	5,913,632	1.74%	4,184,775	-0.72%	-1,728,857
	ACCOUNT 320.00							
320.18	LARGE STRUCTURES PAINT	103,246	0.00%	0	0.00%	0	0.00%	0
320.19	LARGE STRUCTURES PAINT	4,370,191	3.65%	159,320	3.62%	158,381	-0.03%	-939
320.20	CHEMICAL TREATMENT	161,589,797	3.76%	6,079,491	2.15%	3,467,701	-1.61%	-2,611,790
320.29	CHEMICAL TREATMENT PAINT	8,168	0.00%	0	0.00%	0	0.00%	0
320.30	GRANULAR ACTIVATED CARBON	24,011,056	12.78%	3,069,342	8.76%	2,102,384	-4.02%	-966,958
320.37	WASTE HANDLING AND TREATMENT - EQUIPMENT	15,642,496	2.14%	334,581	2.59%	404,621	0.45%	70,040
	TOTAL ACCOUNT 320.00	205,724,954	4.69%	9,642,734	2.98%	6,133,087	-1.71%	-3,509,647
	ACCOUNT 330.00							
330.00	DISTRIBUTION RESERVOIRS AND STANDPIPES	129,552,398	1.74%	2,257,155	1.36%	1,759,440	-0.38%	-497,715
330.10	ELEVATED TANKS AND STANDPIPES	17,524,082	2.00%	351,099	1.45%	254,839	-0.55%	-96,260
330.20	GROUND LEVEL FACILITIES	19,120,765	1.96%	375,200	1.44%	274,743	-0.52%	-100,457
330.30	BELOW GRADE FACILITIES	818,707	1.91%	15,615	1.41%	11,563	-0.50%	-4,052
330.40	CLEARWELL	13,078,109	1.89%	246,573	1.40%	183,411	-0.49%	-63,162
330.58	DISTRIBUTION RESERVOIRS AND STANDPIPES - PAINTING	2,918,574	2.45%	71,372	2.44%	71,249	-0.01%	-123
330.59	DISTRIBUTION RESERVOIRS AND STANDPIPES - PAINTING	44,191,417	4.56%	2,014,038	4.56%	2,013,896	0.00%	-142
	TOTAL ACCOUNT 330.00	227,204,053	2.35%	5,331,052	2.01%	4,569,141	-0.34%	-761,911
331.00	MAINS AND ACCESSORIES	3,547,739,831	1.52%	53,942,094	1.15%	40,895,652	-0.37%	-13,046,442
333.00	SERVICES	793,947,064	1.89%	15,002,077	1.55%	12,320,991	-0.34%	-2,681,086
334.00	METERS AND METER INSTALLATIONS	275,985,838	6.73%	18,582,093	5.02%	13,843,893	-1.71%	-4,738,200
335.00	FIRE HYDRANTS	160,377,896	2.27%	3,644,920	1.74%	2,791,873	-0.53%	-853,047
340.00	OFFICE FURNITURE AND EQUIPMENT							
	FURNITURE	10,036,437	6.25%	627,208	6.24%	625,985	-0.01%	-1,223

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2025	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
	COMPUTERS AND PERIPHERAL EQUIPMENT	20,853,007	27.93%	5,824,535	28.06%	5,851,698	0.13%	27,163
	COMPUTER SOFTWARE	93,058,716	28.08%	26,134,104	28.03%	26,079,758	-0.05%	-54,346
	COMPUTER SOFTWARE - ENTERPRISE SOLUTIONS	696,707	13.76%	95,848	13.76%	95,848	0.00%	0
	OTHER OFFICE EQUIPMENT	181,996	24.34%	44,295	24.30%	44,230	-0.04%	-65
	TOTAL ACCOUNT 340.00	124,826,864	26.22%	32,725,990	26.19%	32,697,518	-0.02%	-28,472
341.00	TRANSPORATION EQUIPMENT							
	NOT CLASSIFIED	38,598	11.43%	4,410	9.57%	3,694	-1.86%	-716
	LIGHT DUTY TRUCKS	76,802,269	7.80%	5,987,995	6.94%	5,333,323	-0.86%	-654,672
	EQUIPMENT	15,276,635	1.61%	245,312	1.43%	218,248	-0.18%	-27,064
	AUTOS	2,022,390	0.00%	0	0.00%	0	0.00%	0
	OTHER	7,642,782	1.41%	107,639	1.59%	121,875	0.18%	14,236
	TOTAL ACCOUNT 341.00	101,782,675	6.23%	6,345,356	5.58%	5,677,140	-0.66%	-668,216
342.00	STORES EQUIPMENT	470,568	6.25%	29,413	6.25%	29,391	0.00%	-22
343.00	TOOLS AND WORK EQUIPMENT	75,331,547	5.43%	4,087,149	5.44%	4,097,150	0.01%	10,001
344.00	LABORATORY EQUIPMENT	2,547,013	10.42%	265,337	10.47%	266,574	0.05%	1,237
345.00	POWER OPERATED EQUIPMENT	3,021,112	4.46%	134,599	4.03%	121,797	-0.43%	-12,802
346.00	COMUNICATION EQUIPMENT							
	EQUIPMENT	5,523,677	7.00%	386,795	7.02%	387,581	0.02%	786
	NON-TELEPHONE	10,938,619	7.21%	788,976	7.21%	788,715	0.00%	-261
	REMOTE CONTROL AND INSTRUMENTATION	5,743,663	12.42%	713,350	12.49%	717,584	0.07%	4,234
	TELEPHONE	223,455	13.02%	29,085	13.13%	29,332	0.11%	247
	TOTAL ACCOUNT 346.00	22,429,414	8.55%	1,918,206	8.57%	1,923,213	0.02%	5,007
347.00	MISCELLANEOUS EQUIPMENT	28,164,309	5.04%	1,418,552	5.03%	1,415,505	-0.01%	-3,047
348.00	OTHER TANGIBLE EQUIPMENT	795,575	4.07%	32,395	4.07%	32,359	0.00%	-36
	Total Water Operations	6,992,541,594	2.73%	190,896,455	2.20%	154,040,446	-0.53%	-36,856,009
	Wastewater Sanitary Sewer System (SSS)							
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	12,016,749	2.68%	322,525	2.30%	276,956	-0.38%	-45,569
354.30	STRUCTURES AND IMPROVEMENTS - SPP	28,946,012	2.36%	683,290	1.69%	489,125	-0.67%	-194,165
354.40	STRUCTURES AND IMPROVEMENTS - TDP	296,544,707	2.53%	7,500,160	1.95%	5,778,204	-0.58%	-1,721,956
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	7,871,326	2.95%	231,944	2.39%	187,760	-0.56%	-44,184
355.00	POWER GENERATION EQUIPMENT	6,988,714	2.42%	169,256	1.99%	138,803	-0.43%	-30,453
360.10	COLLECTION SEWERS - FORCE MAINS	45,008,591	1.65%	740,989	1.41%	635,285	-0.24%	-105,704
361.10	COLLECTION SEWERS - GRAVITY MAINS	246,456,920	1.68%	4,149,199	1.37%	3,371,362	-0.31%	-777,837
361.20	MANHOLES	46,678,363	4.41%	2,057,424	2.61%	1,217,347	-1.80%	-840,077
363.00	SERVICES	59,642,112	3.28%	1,955,201	2.31%	1,377,477	-0.97%	-577,724

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2025	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
364.00	FLOW MEASURING DEVICES	724,745	6.50%	47,107	5.23%	37,932	-1.27%	-9,175
365.00	FLOW MEASURING INSTALLATIONS	272,564	0.01%	14	0.01%	35	0.00%	21
370.00	RECEIVING WELLS	677,388	2.41%	16,335	2.10%	14,212	-0.31%	-2,123
371.00	PUMPING EQUIPMENT	19,996,811	4.72%	943,896	3.44%	688,864	-1.28%	-255,032
380.00	TREATMENT EQUIPMENT	151,351,732	4.26%	6,446,355	3.32%	5,023,841	-0.94%	-1,422,514
381.00	PLANT SEWERS	6,624,603	2.29%	151,800	2.01%	133,140	-0.28%	-18,660
382.00	OUTFALL SEWER LINES	626,996	2.15%	13,453	1.91%	11,977	-0.24%	-1,476
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT - INTANGIBLES	2,659,061	5.16%	137,088	4.74%	126,060	-0.42%	-11,028
390.00	OFFICE FURNITURE AND EQUIPMENT	3,637,908	5.26%	191,320	5.21%	189,466	-0.05%	-1,854
391.00	TRANSPORTATION EQUIPMENT	4,736,844	8.30%	393,189	7.35%	348,356	-0.95%	-44,833
392.00	STORES EQUIPMENT	107,351	4.11%	4,410	4.10%	4,405	-0.01%	-5
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	1,532,894	5.13%	78,639	5.13%	78,688	0.00%	49
394.00	LABORATORY EQUIPMENT	879,511	11.10%	97,637	11.03%	97,006	-0.07%	-631
395.00	POWER OPERATED EQUIPMENT	427,100	3.02%	12,895	2.73%	11,663	-0.29%	-1,232
396.00	COMMUNICATION EQUIPMENT	4,254,549	6.86%	291,824	6.86%	292,006	0.00%	182
397.00	MISCELLANEOUS EQUIPMENT	1,857,094	5.84%	108,488	5.83%	108,275	-0.01%	-213
398.00	OTHER TANGIBLE PLANT	14,232	4.40%	626	4.40%	626	0.00%	0
	Total Wastewater Sanitary Sewer System	950,534,878	2.81%	26,745,064	2.17%	20,638,871	-0.64%	-6,106,193
	Butler Area Sewer Authority (BASA)							
354.30	STRUCTURES AND IMPROVEMENTS - SPP	36,968,125	3.23%	1,192,561	2.29%	846,257	-0.94%	-346,304
354.40	STRUCTURES AND IMPROVEMENTS - TDP	17,268,436	4.35%	751,849	3.49%	603,239	-0.86%	-148,610
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	7,450,765	3.27%	243,822	2.32%	173,131	-0.95%	-70,691
355.00	POWER GENERATING EQUIPMENT	1,312,066	5.52%	72,468	4.26%	55,850	-1.26%	-16,618
360.10	COLLECTION SEWERS - FORCE MAINS	8,434,800	2.61%	220,423	2.09%	175,925	-0.52%	-44,498
361.10	COLLECTION SEWERS - GRAVITY MAINS	85,669,774	3.28%	2,806,043	2.38%	2,036,777	-0.90%	-769,266
361.20	MANHOLES	12,203,899	9.73%	1,187,438	5.13%	625,630	-4.60%	-561,808
363.00	SERVICES	11,834,905	11.56%	1,368,526	5.15%	609,033	-6.41%	-759,493
364.00	FLOW MEASURING DEVICES	237,618	31.50%	74,848	20.56%	48,848	-10.94%	-26,000
371.00	PUMPING EQUIPMENT	6,701,216	8.38%	561,629	5.50%	368,872	-2.88%	-192,757
380.00	TREATMENT EQUIPMENT	25,360,724	8.32%	2,110,499	5.12%	1,297,602	-3.20%	-812,897
382.00	OUTFALL SEWER LINES	73,525	16.99%	12,493	15.64%	11,500	-1.35%	-993
390.00	OFFICE FURNITURE AND EQUIPMENT	280,503	5.32%	14,913	5.32%	14,910	0.00%	-3
391.00	TRANSPORTATION EQUIPMENT	673,949	14.41%	97,087	9.58%	64,569	-4.83%	-32,518
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	305,791	4.95%	15,149	4.95%	15,126	0.00%	-23
395.00	POWER OPERATED EQUIPMENT	651,788	9.30%	60,589	6.02%	39,233	-3.28%	-21,356
396.00	COMMUNICATION EQUIPMENT	938,448	8.50%	79,740	8.52%	79,920	0.02%	180
397.00	MISCELLANEOUS EQUIPMENT	76,253	6.95%	5,301	6.95%	5,301	0.00%	0
	Total Butler Area Sewer Authority	216,442,587	5.02%	10,875,378	3.27%	7,071,721	-1.76%	-3,803,657

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2025	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
	Wastewater Combined Sewer System (CSS)							
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	44,336,603	2.57%	1,137,703	2.20%	976,158	-0.37%	-161,545
354.30	STRUCTURES AND IMPROVEMENTS - SPP	25,842,327	2.20%	568,045	1.61%	416,556	-0.59%	-151,489
354.40	STRUCTURES AND IMPROVEMENTS - TDP	134,343,428	1.88%	2,525,945	1.48%	1,983,812	-0.40%	-542,133
355.00	POWER GENERATING EQUIPMENT	3,221,470	3.88%	124,896	2.79%	89,835	-1.09%	-35,061
360.10	COLLECTION SEWERS - FORCE MAINS	17,527,772	1.56%	274,123	1.34%	234,837	-0.22%	-39,286
361.10	COLLECTION SEWERS - GRAVITY MAINS	426,548,529	1.40%	5,950,577	1.19%	5,068,203	-0.21%	-882,374
361.20	MANHOLES	45,588,029	3.91%	1,783,041	2.45%	1,118,143	-1.46%	-664,898
363.00	SERVICES	17,729,986	2.78%	493,646	2.23%	395,153	-0.55%	-98,493
364.00	FLOW MEASURING DEVICES	2,607,930	8.14%	212,228	6.38%	166,419	-1.76%	-45,809
371.00	PUMPING EQUIPMENT	17,941,888	4.00%	717,245	3.07%	551,365	-0.93%	-165,880
380.00	TREATMENT EQUIPMENT	83,722,295	3.34%	2,797,255	2.80%	2,344,180	-0.54%	-453,075
381.00	PLANT SEWERS	1,576,345	1.96%	30,869	1.75%	27,629	-0.21%	-3,240
382.00	OUTFALL SEWER LINES	499,404	2.16%	10,804	1.87%	9,356	-0.29%	-1,448
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT	10,813,551	5.79%	625,975	5.01%	541,822	-0.78%	-84,153
390.00	OFFICE FURNITURE AND EQUIPMENT	4,194,872	5.52%	231,691	5.38%	225,497	-0.14%	-6,194
391.00	TRANSPORTATION EQUIPMENT	10,425,804	7.36%	767,106	6.91%	720,536	-0.45%	-46,570
392.00	STORES EQUIPMENT	176,309	4.17%	7,353	4.18%	7,366	0.01%	13
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	5,300,165	4.86%	257,527	4.87%	257,933	0.01%	406
394.00	LABORATORY EQUIPMENT	451,557	3.04%	13,718	3.03%	13,695	-0.01%	-23
395.00	POWER OPERATED EQUIPMENT	2,309,684	4.27%	98,691	4.26%	98,445	-0.01%	-246
396.00	COMMUNICATION EQUIPMENT	2,954,453	7.37%	217,730	7.38%	217,920	0.01%	190
397.00	MISCELLANEOUS EQUIPMENT	2,843,995	6.93%	197,094	6.94%	197,514	0.01%	420
	Total Wastewater Combined Sewer System	860,956,397	2.21%	19,043,262	1.82%	15,662,376	-0.39%	-3,380,886
	TOTAL PLANT STUDIED	**9,020,475,456**	**2.74%**	**247,560,159**	**2.19%**	**197,413,414**	**-0.56%**	**-50,146,745**

[1], [2] From Company depreciation study

[3] From Exhibit DJG-19

[4] = [3] - [2]

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2025	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
	Water Operations								
303.14	WATER RIGHTS - HIBERNIA	1,942,823	SQ	25	1,942,823	0			
303.35	WASTE HANDLING AND TREATMENT LAND	155,025	R3	100	131,860	23,165	68.15	340	0.22%
303.99	COMPREHENSIVE PLANNING STUDIES	15,016,673	SQ	5	8,880,058	6,136,615	2.30	2,668,093	17.77%
304.15	OTHER WATER SOURCE STRUCTURES	123,441,839	S0.5	50	11,111,635	112,330,204	44.12	2,546,015	2.06%
304.20	POWER AND PUMING STRUCTURES								
	LARGE STRUCTURES	56,902,089	S0.5	75	8,685,597	48,216,492	61.00	790,434	1.39%
	OTHER STRUCTURES	76,998,499	R3	55	8,956,383	68,042,116	42.10	1,616,202	2.10%
	TOTAL ACCOUNT 304.20	133,900,588			17,641,980	116,258,608	48.31	2,406,637	1.80%
304.30	PURIFICATION BUILDINGS								
	LARGE STRUCTURES	359,356,537	S1	55	114,899,600	244,456,937	42.49	5,753,282	1.60%
	OTHER STRUCTURES	72,988,764	R3	60	15,269,651	57,719,113	48.98	1,178,422	1.61%
	TOTAL ACCOUNT 304.30	432,345,301			130,169,251	302,176,050	43.59	6,931,704	1.60%
304.36	WASTE HANDLING AND TREATMENT STRUCTURES	28,441,582	S1	55	7,744,675	20,696,907	42.27	489,636	1.72%
304.38	WASTE HANDLING AND TREATMENT STRUCTURES PAINTING	1,403,439	SQ	10	611,973	791,466	6.00	131,911	9.40%
304.39	PURIFICATION BUILDINGS - TANK PAINTING	968,752	SQ	10	294,546	674,206	8.00	84,276	8.70%
304.61	OFFICE BUILDINGS								
	LARGE STRUCTURES	29,028,974	S0	55	7,836,073	21,192,901	46.84	452,453	1.56%
	OTHER OTHER STRUCTURES	14,996,301	R3	50	4,307,217	10,689,084	36.06	296,425	1.98%
	TOTAL ACCOUNT 304.61	44,025,275			12,143,290	31,881,985	42.57	748,878	1.70%
304.62	STORES, SHOP AND GARAGE BUILDINGS								
	LARGE STRUCTURES	59,397,332	S0.5	55	18,838,567	40,558,765	46.97	863,504	1.45%
	OTHER OTHER STRUCTURES	9,322,958	R3	45	4,449,540	4,873,418	30.57	159,418	1.71%
	TOTAL ACCOUNT 304.62	68,720,290			23,288,107	45,432,183	44.41	1,022,922	1.49%
304.65	MISCELLANEOUS STRUCTURES AND IMPROVEMENTS	5,101,932	S0.5	35	4,606,571	495,361	27.41	18,072	0.35%
305.00	COLLECTING AND IMPOUNDING RESERVOIRS								
	LARGE RESERVOIRS	141,430,066	R2	130	20,732,787	120,697,279	59.60	2,025,122	1.43%
	OTHER RESERVOIRS	13,870,315	R3	75	3,245,844	10,624,471	54.95	193,348	1.39%
	TOTAL ACCOUNT 305.00	155,300,381			23,978,631	131,321,750	59.19	2,218,470	1.43%
306.00	LAKE, RIVER AND OTHER INTAKES								
	LARGE RESERVOIRS	12,329,112	S1.5	55	5,313,633	7,015,479	30.27	231,763	1.88%
	OTHER RESERVOIRS	5,495,248	S0.5	50	1,882,918	3,612,330	33.50	107,831	1.96%
	TOTAL ACCOUNT 306.00	17,824,361			7,196,551	10,627,810	31.30	339,594	1.91%

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2025	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
307.00	WELLS AND SPRINGS	12,806,671	S0	55	4,610,082	8,196,589	39.27	208,724	1.63%
310.00	POWER GENERATION EQUIPMENT	26,827,156	S0.5	45	7,450,040	19,377,116	36.35	533,071	1.99%
	PUMPING EQUIPMENT								
311.20	ELECTRIC PUMPING EQUIPMENT	17,440,625	S0	39	4,871,360	12,569,265	30.48	412,377	2.36%
311.50	OTHER	26,945,408	S0	39	2,512,607	24,432,801	36.35	672,154	2.49%
311.52	SOURCE OF SUPPLY	11,405,625	S0	39	3,076,779	8,328,846	30.97	268,933	2.36%
311.53	WATER TREATMENT	48,154,022	S0	39	25,951,902	22,202,120	20.11	1,104,034	2.29%
311.54	TRANSMISSION AND DISTRIBUTION	9,832,787	S0	39	2,655,682	7,177,105	30.60	234,546	2.39%
	TOTAL ACCOUNT 311.00	113,778,467			39,068,330	74,710,137	27.75	2,692,044	2.37%
	PURIFICATION SYSTEM								
320.10	LARGE STRUCTURES	224,431,803	S1	50	93,400,131	131,031,672	33.76	3,881,270	1.73%
320.11	OTHER LARGE STRUCTURES	15,760,524	R3	55	5,532,416	10,228,108	33.70	303,505	1.93%
	TOTAL ACCOUNT 320.10	240,192,327			98,932,547	141,259,780	33.76	4,184,775	1.74%
	ACCOUNT 320.00								
320.18	LARGE STRUCTURES PAINT	103,246	SQ	10	103,246	0			
320.19	LARGE STRUCTURES PAINT	4,370,191	SQ	10	3,277,360	1,092,831	6.90	158,381	3.62%
320.20	CHEMICAL TREATMENT	161,589,797	R0.5	42	37,203,361	124,386,436	35.87	3,467,701	2.15%
320.29	CHEMICAL TREATMENT PAINT	8,168			8,168	0			
320.30	GRANULAR ACTIVATED CARBON	24,011,056	L0.5	11	7,023,790	16,987,266	8.08	2,102,384	8.76%
320.37	WASTE HANDLING AND TREATMENT - EQUIPMENT	15,642,496	R3	30	10,576,647	5,065,849	12.52	404,621	2.59%
	TOTAL ACCOUNT 320.00	205,724,954			58,192,572	147,532,382	24.06	6,133,087	2.98%
	ACCOUNT 330.00								
330.00	DISTRIBUTION RESERVOIRS AND STANDPIPES	129,552,398	S0.5	65	45,891,024	83,661,374	47.55	1,759,440	1.36%
330.10	ELEVATED TANKS AND STANDPIPES	17,524,082	S0.5	65	2,937,094	14,586,988	57.24	254,839	1.45%
330.20	GROUND LEVEL FACILITIES	19,120,765	S0.5	65	3,757,146	15,363,619	55.92	274,743	1.44%
330.30	BELOW GRADE FACILITIES	818,707	S0.5	65	195,228	623,479	53.92	11,563	1.41%
330.40	CLEARWELL	13,078,109	S0.5	65	3,337,128	9,740,981	53.11	183,411	1.40%
330.58	DISTRIBUTION RESERVOIRS AND STANDPIPES - PAINTING	2,918,574	SQ	10	2,298,707	619,867	8.70	71,249	2.44%
330.59	DISTRIBUTION RESERVOIRS AND STANDPIPES - PAINTING	44,191,417	SQ	10	32,712,210	11,479,207	5.70	2,013,896	4.56%
	TOTAL ACCOUNT 330.00	227,204,053			91,128,537	136,075,516	29.78	4,569,141	2.01%
331.00	MAINS AND ACCESSORIES	3,547,739,831	R2	90	388,550,701	3,159,189,130	77.25	40,895,652	1.15%
333.00	SERVICES	793,947,064	R2.5	65	169,642,467	624,304,597	50.67	12,320,991	1.55%
334.00	METERS AND METER INSTALLATIONS	275,985,838	L1.5	20	74,141,878	201,843,960	14.58	13,843,893	5.02%
335.00	FIRE HYDRANTS	160,377,896	R2	60	22,934,002	137,443,894	49.23	2,791,873	1.74%
340.00	OFFICE FURNITURE AND EQUIPMENT								
	FURNITURE	10,036,437	SQ	20	1,961,233	8,075,204	12.90	625,985	6.24%

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2025	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
	COMPUTERS AND PERIPHERAL EQUIPMENT	20,853,007	SQ	5	6,223,762	14,629,245	2.50	5,851,698	28.06%
	COMPUTER SOFTWARE	93,058,716	SQ	5	27,859,322	65,199,394	2.50	26,079,758	28.03%
	COMPUTER SOFTWARE - ENTERPRISE SOLUTIONS	696,707	SQ	10	409,163	287,544	3.00	95,848	13.76%
	OTHER OFFICE EQUIPMENT	181,996	SQ	10	97,960	84,036	1.90	44,230	24.30%
	TOTAL ACCOUNT 340.00	124,826,864			36,551,440	88,275,424	2.70	32,697,518	26.19%
341.00	TRANSPORATION EQUIPMENT								
	NOT CLASSIFIED	38,598	L2.5	10	3,470	35,128	9.51	3,694	9.57%
	LIGHT DUTY TRUCKS	76,802,269	L2.5	10	40,802,341	35,999,928	6.75	5,333,323	6.94%
	EQUIPMENT	15,276,635	L2.5	10	14,316,342	960,293	4.40	218,248	1.43%
	AUTOS	2,022,390	L2.5	10	2,022,390	0			
	OTHER	7,642,782	L2.5	10	7,087,034	555,748	4.56	121,875	1.59%
	TOTAL ACCOUNT 341.00	101,782,675			64,231,577	37,551,098	6.61	5,677,140	5.58%
342.00	STORES EQUIPMENT	470,568	SQ	20	126,699	343,869	11.70	29,391	6.25%
343.00	TOOLS AND WORK EQUIPMENT	75,331,547	SQ	20	15,103,437	60,228,110	14.70	4,097,150	5.44%
344.00	LABORATORY EQUIPMENT	2,547,013	SQ	20	601,021	1,945,992	7.30	266,574	10.47%
345.00	POWER OPERATED EQUIPMENT	3,021,112	S0.5	21	1,577,820	1,443,292	11.85	121,797	4.03%
346.00	COMUNICATION EQUIPMENT								
	EQUIPMENT	5,523,677	SQ	15	872,699	4,650,978	12.00	387,581	7.02%
	NON-TELEPHONE	10,938,619	SQ	15	2,657,115	8,281,504	10.50	788,715	7.21%
	REMOTE CONTROL AND INSTRUMENTATION	5,743,663	SQ	10	2,299,258	3,444,405	4.80	717,584	12.49%
	TELEPHONE	223,455	SQ	10	126,659	96,796	3.30	29,332	13.13%
	TOTAL ACCOUNT 346.00	22,429,414			5,955,731	16,473,683	8.57	1,923,213	8.57%
347.00	MISCELLANEOUS EQUIPMENT	28,164,309	SQ	25	6,507,077	21,657,232	15.30	1,415,505	5.03%
348.00	OTHER TANGIBLE EQUIPMENT	795,575	SQ	25	543,172	252,403	7.80	32,359	4.07%
	Total Water Operations	6,992,541,594			1,335,591,081	5,656,950,513	36.72	154,040,446	2.20%
	Wastewater Sanitary Sewer System (SSS)								
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	12,016,749	R3	45	312,584	11,704,165	42.26	276,956	2.30%
354.30	STRUCTURES AND IMPROVEMENTS - SPP	28,946,012	S0	55	7,370,714	21,575,298	44.11	489,125	1.69%
354.40	STRUCTURES AND IMPROVEMENTS - TDP	296,544,707	S0	55	94,423,146	202,121,561	34.98	5,778,204	1.95%
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	7,871,326	S1	35	2,157,788	5,713,538	30.43	187,760	2.39%
355.00	POWER GENERATION EQUIPMENT	6,988,714	S0.5	35	3,626,914	3,361,800	24.22	138,803	1.99%
360.10	COLLECTION SEWERS - FORCE MAINS	45,008,591	R3	75	7,107,476	37,901,116	59.66	635,285	1.41%
361.10	COLLECTION SEWERS - GRAVITY MAINS	246,456,920	R2.5	80	51,794,484	194,662,436	57.74	3,371,362	1.37%
361.20	MANHOLES	46,678,363	S2.5	50	13,274,354	33,404,009	27.44	1,217,347	2.61%
363.00	SERVICES	59,642,112	R3	47	26,169,414	33,472,698	24.30	1,377,477	2.31%

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2025	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
364.00	FLOW MEASURING DEVICES	724,745	L2.5	15	464,534	260,211	6.86	37,932	5.23%
365.00	FLOW MEASURING INSTALLATIONS	272,564	S2	25	272,428	136	3.89	35	0.01%
370.00	RECEIVING WELLS	677,388	R3	50	73,795	603,594	42.47	14,212	2.10%
371.00	PUMPING EQUIPMENT	19,996,811	S0.5	30	3,532,970	16,463,841	23.90	688,864	3.44%
380.00	TREATMENT EQUIPMENT	151,351,732	S1.5	35	31,734,072	119,617,660	23.81	5,023,841	3.32%
381.00	PLANT SEWERS	6,624,603	R3	50	1,844,887	4,779,717	35.90	133,140	2.01%
382.00	OUTFALL SEWER LINES	626,996	R3	50	260,030	366,966	30.64	11,977	1.91%
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT - INTANGIBLES	2,659,061	S2.5	20	519,818	2,139,243	16.97	126,060	4.74%
390.00	OFFICE FURNITURE AND EQUIPMENT	3,637,908	SQ	20	235,095	3,402,813	17.96	189,466	5.21%
391.00	TRANSPORTATION EQUIPMENT	4,736,844	L4	14	1,347,338	3,389,506	9.73	348,356	7.35%
392.00	STORES EQUIPMENT	107,351	SQ	25	42,601	64,751	14.70	4,405	4.10%
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	1,532,894	SQ	20	462,743	1,070,151	13.60	78,688	5.13%
394.00	LABORATORY EQUIPMENT	879,511	SQ	15	200,467	679,044	7.00	97,006	11.03%
395.00	POWER OPERATED EQUIPMENT	427,100	R2	22	283,059	144,042	12.35	11,663	2.73%
396.00	COMMUNICATION EQUIPMENT	4,254,549	SQ	15	1,071,678	3,182,870	10.90	292,006	6.86%
397.00	MISCELLANEOUS EQUIPMENT	1,857,094	SQ	15	546,961	1,310,133	12.10	108,275	5.83%
398.00	OTHER TANGIBLE PLANT	14,232	SQ	25	2,342	11,889	19.00	626	4.40%
	Total Wastewater Sanitary Sewer System	950,534,878			249,131,690	701,403,188	33.98	20,638,871	2.17%
	Butler Area Sewer Authority (BASA)								
354.30	STRUCTURES AND IMPROVEMENTS - SPP	36,968,125	S0	55	460,605	36,507,520	43.14	846,257	2.29%
354.40	STRUCTURES AND IMPROVEMENTS - TDP	17,268,436	S0	55	-2,295	17,270,731	28.63	603,239	3.49%
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	7,450,765	S0	55	179,250	7,271,515	42.00	173,131	2.32%
355.00	POWER GENERATING EQUIPMENT	1,312,066	S0.5	35	22,501	1,289,566	23.09	55,850	4.26%
360.10	COLLECTION SEWERS - FORCE MAINS	8,434,800	R3	75	-88,749	8,523,548	48.45	175,925	2.09%
361.10	COLLECTION SEWERS - GRAVITY MAINS	85,669,774	R2.5	80	919,488	84,750,286	41.61	2,036,777	2.38%
361.20	MANHOLES	12,203,899	S2.5	50	266,876	11,937,024	19.08	625,630	5.13%
363.00	SERVICES	11,834,905	R3	47	202,376	11,632,529	19.10	609,033	5.15%
364.00	FLOW MEASURING DEVICES	237,618	L2.5	15	12,430	225,188	4.61	48,848	20.56%
371.00	PUMPING EQUIPMENT	6,701,216	S0.5	30	227,519	6,473,697	17.55	368,872	5.50%
380.00	TREATMENT EQUIPMENT	25,360,724	S1.5	35	654,380	24,706,344	19.04	1,297,602	5.12%
382.00	OUTFALL SEWER LINES	73,525	R3	50	1,192	72,333	6.29	11,500	15.64%
390.00	OFFICE FURNITURE AND EQUIPMENT	280,503	SQ	20	3,178	277,326	18.60	14,910	5.32%
391.00	TRANSPORTATION EQUIPMENT	673,949	L4	14	32,134	641,816	9.94	64,569	9.58%
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	305,791	SQ	20	3,279	302,512	20.00	15,126	4.95%
395.00	POWER OPERATED EQUIPMENT	651,788	R2	22	28,767	623,021	15.88	39,233	6.02%
396.00	COMMUNICATION EQUIPMENT	938,448	SQ	15	-36,581	975,030	12.20	79,920	8.52%
397.00	MISCELLANEOUS EQUIPMENT	76,253	SQ	15	2,041	74,212	14.00	5,301	6.95%
	Total Butler Area Sewer Authority	216,442,587			2,888,390	213,554,197	30.20	7,071,721	3.27%

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2025	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
	Wastewater Combined Sewer System (CSS)								
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	44,336,603	R3	45	2,186,103	42,150,499	43.18	976,158	2.20%
354.30	STRUCTURES AND IMPROVEMENTS - SPP	25,842,327	S0	55	7,972,095	17,870,232	42.90	416,556	1.61%
354.40	STRUCTURES AND IMPROVEMENTS - TDP	134,343,428	S0	55	58,204,719	76,138,709	38.38	1,983,812	1.48%
355.00	POWER GENERATING EQUIPMENT	3,221,470	S0.5	35	403,339	2,818,131	31.37	89,835	2.79%
360.10	COLLECTION SEWERS - FORCE MAINS	17,527,772	R3	75	922,431	16,605,341	70.71	234,837	1.34%
361.10	COLLECTION SEWERS - GRAVITY MAINS	426,548,529	R2.5	80	155,653,100	270,895,429	53.45	5,068,203	1.19%
361.20	MANHOLES	45,588,029	S2.5	50	15,700,062	29,887,968	26.73	1,118,143	2.45%
363.00	SERVICES	17,729,986	R3	47	5,721,277	12,008,709	30.39	395,153	2.23%
364.00	FLOW MEASURING DEVICES	2,607,930	L2.5	15	1,078,538	1,529,393	9.19	166,419	6.38%
371.00	PUMPING EQUIPMENT	17,941,888	S0.5	30	5,547,207	12,394,681	22.48	551,365	3.07%
380.00	TREATMENT EQUIPMENT	83,722,295	S1.5	35	32,056,562	51,665,733	22.04	2,344,180	2.80%
381.00	PLANT SEWERS	1,576,345	R3	50	863,246	713,099	25.81	27,629	1.75%
382.00	OUTFALL SEWER LINES	499,404	R3	50	67,342	432,063	46.18	9,356	1.87%
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT	10,813,551	S2.5	20	3,813,206	7,000,345	12.92	541,822	5.01%
390.00	OFFICE FURNITURE AND EQUIPMENT	4,194,872	SQ	20	686,146	3,508,726	15.56	225,497	5.38%
391.00	TRANSPORTATION EQUIPMENT	10,425,804	L4	14	4,510,202	5,915,602	8.21	720,536	6.91%
392.00	STORES EQUIPMENT	176,309	SQ	25	21,615	154,694	21.00	7,366	4.18%
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	5,300,165	SQ	20	915,299	4,384,866	17.00	257,933	4.87%
394.00	LABORATORY EQUIPMENT	451,557	SQ	15	270,779	180,778	13.20	13,695	3.03%
395.00	POWER OPERATED EQUIPMENT	2,309,684	R2	22	1,079,120	1,230,564	12.50	98,445	4.26%
396.00	COMMUNICATION EQUIPMENT	2,954,453	SQ	15	1,123,923	1,830,530	8.40	217,920	7.38%
397.00	MISCELLANEOUS EQUIPMENT	2,843,995	SQ	15	809,600	2,034,395	10.30	197,514	6.94%
	Total Wastewater Combined Sewer System	860,956,397			299,605,910	561,350,487	35.84	15,662,376	1.82%
	TOTAL PLANT STUDIED	**9,020,475,456**			**1,887,217,071**	**7,133,258,385**	**36.13**	**197,413,414**	**2.19%**

[1], [3] From Company depreciation study

[2] Average life and Iowa curve shape developed through actuarial analysis and professional judgment

[4] = [1] - [3]

[5] Composite remaining life based on Iowa cuve in [2]; see remaining life exhibit for detailed calculations

[6] = [4] / [5]; (some unadjusted figures may be hard coded to match Company proposal)

[7] = [6] / [1]; (some unadjusted figures may hard coded to match Company proposal)

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2026	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
	Water Operations							
303.14	WATER RIGHTS - HIBERNIA	1,942,823	0.00%	0	0.00%	0	0.00%	0
303.35	WASTE HANDLING AND TREATMENT LAND	155,025	0.95%	1,469	0.21%	323	-0.74%	-1,146
303.99	COMPREHENSIVE PLANNING STUDIES	15,691,832	10.36%	1,625,806	10.38%	1,629,023	0.02%	3,217
304.15	OTHER WATER SOURCE STRUCTURES	123,448,677	2.78%	3,432,011	2.02%	2,495,479	-0.76%	-936,532
304.20	POWER AND PUMING STRUCTURES							
	LARGE STRUCTURES	56,902,089	2.95%	1,678,391	1.35%	770,827	-1.60%	-907,564
	OTHER STRUCTURES	80,622,784	2.58%	2,082,385	2.07%	1,666,702	-0.51%	-415,683
	TOTAL ACCOUNT 304.20	137,524,873	2.73%	3,760,776	1.77%	2,437,530	-0.96%	-1,323,246
304.30	PURIFICATION BUILDINGS							
	LARGE STRUCTURES	364,806,611	2.53%	9,213,105	1.58%	5,775,123	-0.95%	-3,437,982
	OTHER STRUCTURES	75,971,039	1.83%	1,391,674	1.61%	1,225,040	-0.22%	-166,634
	TOTAL ACCOUNT 304.30	440,777,650	2.41%	10,604,779	1.59%	7,000,163	-0.82%	-3,604,616
304.36	WASTE HANDLING AND TREATMENT STRUCTURES	28,441,582	3.59%	1,022,337	1.67%	474,053	-1.92%	-548,284
304.38	WASTE HANDLING AND TREATMENT STRUCTURES PAINTING	1,403,439	9.40%	131,909	9.40%	131,909	0.00%	0
304.39	PURIFICATION BUILDINGS - TANK PAINTING	968,752	8.70%	84,275	8.70%	84,275	0.00%	0
304.61	OFFICE BUILDINGS							
	LARGE STRUCTURES	29,028,974	3.64%	1,056,579	1.51%	437,207	-2.13%	-619,372
	OTHER OTHER STRUCTURES	15,321,845	2.20%	337,630	1.95%	299,329	-0.25%	-38,301
	TOTAL ACCOUNT 304.61	44,350,819	3.14%	1,394,209	1.66%	736,536	-1.48%	-657,673
304.62	STORES, SHOP AND GARAGE BUILDINGS							
	LARGE STRUCTURES	59,397,332	2.36%	1,400,369	1.43%	847,622	-0.93%	-552,747
	OTHER OTHER STRUCTURES	9,332,330	1.59%	148,108	1.71%	159,293	0.12%	11,185
	TOTAL ACCOUNT 304.62	68,729,662	2.25%	1,548,477	1.47%	1,006,914	-0.79%	-541,563
304.65	MISCELLANEOUS STRUCTURES AND IMPROVEMENTS	5,587,737	0.76%	42,283	0.65%	36,473	-0.11%	-5,810
305.00	COLLECTING AND IMPOUNDING RESERVOIRS							
	LARGE RESERVOIRS	164,029,414	1.46%	2,388,832	1.46%	2,390,725	0.00%	1,893
	OTHER RESERVOIRS	11,419,519	1.60%	182,507	1.37%	156,390	-0.23%	-26,117
	TOTAL ACCOUNT 305.00	175,448,933	1.47%	2,571,339	1.45%	2,547,115	-0.01%	-24,224

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2026	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
306.00	LAKE, RIVER AND OTHER INTAKES							
	LARGE RESERVOIRS	12,329,112	2.25%	277,881	1.86%	228,971	-0.39%	-48,910
	OTHER RESERVOIRS	8,189,556	2.63%	215,036	1.97%	161,372	-0.66%	-53,664
	TOTAL ACCOUNT 306.00	20,518,669	2.40%	492,917	1.90%	390,343	-0.50%	-102,574
307.00	WELLS AND SPRINGS	14,361,759	2.19%	314,660	1.64%	235,096	-0.55%	-79,564
310.00	POWER GENERATION EQUIPMENT	26,827,956	2.57%	688,880	1.95%	523,867	-0.62%	-165,013
	PUMPING EQUIPMENT							
311.20	ELECTRIC PUMPING EQUIPMENT	23,802,038	3.35%	796,624	2.36%	562,214	-0.99%	-234,410
311.50	OTHER	29,718,053	3.81%	1,133,486	2.52%	747,477	-1.29%	-386,009
311.52	SOURCE OF SUPPLY	11,405,625	3.13%	357,066	2.30%	262,683	-0.83%	-94,383
311.53	WATER TREATMENT	48,154,022	2.65%	1,274,113	2.21%	1,064,461	-0.44%	-209,652
311.54	TRANSMISSION AND DISTRIBUTION	9,832,787	3.18%	312,661	2.33%	229,032	-0.85%	-83,629
	TOTAL ACCOUNT 311.00	122,912,524	3.15%	3,873,950	2.33%	2,865,867	-0.82%	-1,008,083
	PURIFICATION SYSTEM							
320.10	LARGE STRUCTURES	239,312,277	2.55%	6,096,430	1.72%	4,116,763	-0.83%	-1,979,667
320.11	OTHER LARGE STRUCTURES	18,215,878	1.98%	361,050	1.73%	314,544	-0.25%	-46,506
	TOTAL ACCOUNT 320.10	257,528,155	2.51%	6,457,480	1.72%	4,431,307	-0.79%	-2,026,173
	ACCOUNT 320.00							
320.18	LARGE STRUCTURES PAINT	103,246	0.00%	0	0.00%	0	0.00%	0
320.19	LARGE STRUCTURES PAINT	4,370,191	3.64%	159,200	3.62%	158,190	-0.02%	-1,010
320.20	CHEMICAL TREATMENT	163,925,562	3.36%	5,513,478	2.08%	3,408,860	-1.28%	-2,104,618
320.29	CHEMICAL TREATMENT PAINT	8,168	0.00%	0	0.00%	0	0.00%	0
320.30	GRANULAR ACTIVATED CARBON	24,011,056	10.40%	2,497,624	7.54%	1,811,308	-2.86%	-686,316
320.37	WASTE HANDLING AND TREATMENT - EQUIPMENT	20,634,881	2.60%	536,886	2.92%	602,509	0.32%	65,623
	TOTAL ACCOUNT 320.00	213,053,103	4.09%	8,707,188	2.81%	5,980,866	-1.28%	-2,726,322
	ACCOUNT 330.00							
330.00	DISTRIBUTION RESERVOIRS AND STANDPIPES	136,254,296	1.71%	2,330,633	1.34%	1,823,075	-0.37%	-507,558
330.10	ELEVATED TANKS AND STANDPIPES	17,848,701	1.98%	353,272	1.44%	257,525	-0.54%	-95,747
330.20	GROUND LEVEL FACILITIES	19,120,765	1.94%	369,995	1.42%	272,079	-0.52%	-97,916
330.30	BELOW GRADE FACILITIES	818,707	1.88%	15,368	1.40%	11,443	-0.48%	-3,925
330.40	CLEARWELL	19,670,178	1.99%	392,195	1.45%	285,889	-0.54%	-106,306
330.58	DISTRIBUTION RESERVOIRS AND STANDPIPES - PAINTING	2,918,574	2.45%	71,491	2.44%	71,216	-0.01%	-275

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2026	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
330.59	DISTRIBUTION RESERVOIRS AND STANDPIPES - PAINTING	48,464,875	5.31%	2,573,742	5.29%	2,562,439	-0.02%	-11,303
	TOTAL ACCOUNT 330.00	245,096,098	2.49%	6,106,696	2.16%	5,283,666	-0.34%	-823,030
331.00	MAINS AND ACCESSORIES	3,721,242,317	1.50%	55,914,791	1.15%	42,661,155	-0.35%	-13,253,636
333.00	SERVICES	848,543,221	1.91%	16,172,696	1.56%	13,244,090	-0.35%	-2,928,606
334.00	METERS AND METER INSTALLATIONS	304,640,968	6.34%	19,303,971	4.78%	14,569,227	-1.56%	-4,734,744
335.00	FIRE HYDRANTS	165,807,649	2.23%	3,694,420	1.73%	2,861,282	-0.50%	-833,138
340.00	OFFICE FURNITURE AND EQUIPMENT							
	FURNITURE	10,047,342	6.24%	627,104	6.25%	627,981	0.01%	877
	COMPUTERS AND PERIPHERAL EQUIPMENT	22,888,705	28.45%	6,511,584	28.37%	6,494,599	-0.08%	-16,985
	COMPUTER SOFTWARE	88,254,943	26.55%	23,435,513	26.75%	23,605,893	0.20%	170,380
	COMPUTER SOFTWARE - ENTERPRISE SOLUTIONS	696,707	13.76%	95,839	13.76%	95,839	0.00%	0
	OTHER OFFICE EQUIPMENT	58,898	19.08%	11,236	18.96%	11,168	-0.12%	-68
	TOTAL ACCOUNT 340.00	121,946,595	25.16%	30,681,276	25.29%	30,835,481	0.13%	154,205
341.00	TRANSPORATION EQUIPMENT							
	NOT CLASSIFIED	38,598	10.89%	4,203	9.06%	3,498	-1.83%	-705
	LIGHT DUTY TRUCKS	82,028,853	7.90%	6,479,136	6.89%	5,655,362	-1.01%	-823,774
	EQUIPMENT	15,276,635	1.31%	200,712	1.14%	174,229	-0.17%	-26,483
	AUTOS	2,022,390	0.00%	0	0.00%	0	0.00%	0
	OTHER	7,685,814	1.33%	101,927	1.43%	110,085	0.10%	8,158
	TOTAL ACCOUNT 341.00	107,052,291	6.34%	6,785,978	5.55%	5,943,174	-0.79%	-842,804
342.00	STORES EQUIPMENT	477,263	6.23%	29,730	6.24%	29,765	0.01%	35
343.00	TOOLS AND WORK EQUIPMENT	82,457,474	5.32%	4,389,702	5.31%	4,379,887	-0.01%	-9,815
344.00	LABORATORY EQUIPMENT	2,539,077	8.32%	211,267	8.34%	211,774	0.02%	507
345.00	POWER OPERATED EQUIPMENT	3,091,859	3.88%	120,089	3.77%	116,660	-0.11%	-3,429
346.00	COMUNICATION EQUIPMENT							
	EQUIPMENT	5,520,780	6.65%	367,101	6.63%	366,053	-0.02%	-1,048
	NON-TELEPHONE	13,878,764	7.10%	984,954	7.06%	980,347	-0.04%	-4,607
	REMOTE CONTROL AND INSTRUMENTATION	12,716,949	10.02%	1,273,684	9.97%	1,267,428	-0.05%	-6,256
	TELEPHONE	213,745	12.10%	25,870	12.15%	25,973	0.05%	103
	TOTAL ACCOUNT 346.00	32,330,238	8.20%	2,651,609	8.17%	2,639,801	-0.04%	-11,808
347.00	MISCELLANEOUS EQUIPMENT	28,099,483	4.28%	1,203,256	4.28%	1,202,889	0.00%	-367
348.00	OTHER TANGIBLE EQUIPMENT	14,545,575	4.14%	602,054	4.15%	603,093	0.01%	1,039

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2026	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
	Total Water Operations	7,377,544,075	2.64%	194,622,280	2.14%	157,589,083	-0.50%	-37,033,197
	Wastewater Sanitary Sewer System (SSS)							
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	12,274,079	2.65%	325,386	2.29%	280,952	-0.36%	-44,434
354.30	STRUCTURES AND IMPROVEMENTS - SPP	28,946,012	2.29%	664,164	1.66%	480,366	-0.63%	-183,798
354.40	STRUCTURES AND IMPROVEMENTS - TDP	296,544,707	2.45%	7,278,198	1.91%	5,653,285	-0.54%	-1,624,913
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	8,027,455	2.95%	236,730	2.38%	190,858	-0.57%	-45,872
355.00	POWER GENERATION EQUIPMENT	7,137,994	2.37%	169,492	1.96%	140,235	-0.41%	-29,257
360.10	COLLECTION SEWERS - FORCE MAINS	46,364,017	1.63%	754,617	1.40%	649,157	-0.23%	-105,460
361.10	COLLECTION SEWERS - GRAVITY MAINS	254,095,190	1.67%	4,250,909	1.36%	3,450,231	-0.31%	-800,678
361.20	MANHOLES	47,699,869	4.01%	1,912,081	2.50%	1,190,495	-1.51%	-721,586
363.00	SERVICES	64,832,866	3.17%	2,055,036	2.25%	1,456,745	-0.92%	-598,291
364.00	FLOW MEASURING DEVICES	724,745	5.36%	38,875	4.53%	32,836	-0.83%	-6,039
365.00	FLOW MEASURING INSTALLATIONS	272,564	0.00%	12	0.01%	30	0.01%	18
370.00	RECEIVING WELLS	677,388	2.40%	16,237	2.09%	14,144	-0.31%	-2,093
371.00	PUMPING EQUIPMENT	20,392,676	4.49%	916,525	3.34%	680,389	-1.15%	-236,136
380.00	TREATMENT EQUIPMENT	151,948,874	4.11%	6,241,059	3.24%	4,919,194	-0.87%	-1,321,865
381.00	PLANT SEWERS	6,624,603	2.28%	150,714	2.00%	132,265	-0.28%	-18,449
382.00	OUTFALL SEWER LINES	626,996	2.11%	13,242	1.89%	11,851	-0.22%	-1,391
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT - INTANGIBLES	2,659,061	5.15%	136,857	4.70%	124,971	-0.45%	-11,886
390.00	OFFICE FURNITURE AND EQUIPMENT	3,634,697	5.24%	190,354	5.22%	189,843	-0.02%	-511
391.00	TRANSPORTATION EQUIPMENT	4,786,161	7.96%	381,084	7.18%	343,756	-0.78%	-37,328
392.00	STORES EQUIPMENT	107,351	4.11%	4,411	4.10%	4,404	-0.01%	-7
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	1,663,556	4.82%	80,114	4.83%	80,301	0.01%	187
394.00	LABORATORY EQUIPMENT	863,406	10.58%	91,306	10.62%	91,665	0.04%	359
395.00	POWER OPERATED EQUIPMENT	427,100	2.84%	12,151	2.62%	11,184	-0.22%	-967
396.00	COMMUNICATION EQUIPMENT	4,157,904	7.04%	292,801	7.07%	293,905	0.03%	1,104
397.00	MISCELLANEOUS EQUIPMENT	1,871,658	5.86%	109,736	5.86%	109,738	0.00%	2
398.00	OTHER TANGIBLE PLANT	2,515,100	3.95%	99,372	3.96%	99,478	0.01%	106
	Total Wastewater Sanitary Sewer System	969,876,030	2.72%	26,421,463	2.13%	20,632,278	-0.60%	-5,789,185
	Butler Area Sewer Authority (BASA)							

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2026	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	465,513	2.62%	12,213	2.32%	10,790	-0.30%	-1,423
354.30	STRUCTURES AND IMPROVEMENTS - SPP	36,968,125	3.14%	1,160,002	2.25%	831,687	-0.89%	-328,315
354.40	STRUCTURES AND IMPROVEMENTS - TDP	17,268,436	4.19%	723,627	3.40%	586,724	-0.79%	-136,903
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	7,747,804	6.80%	526,720	2.26%	175,308	-4.54%	-351,412
355.00	POWER GENERATING EQUIPMENT	1,312,066	5.32%	69,817	4.13%	54,216	-1.19%	-15,601
360.10	COLLECTION SEWERS - FORCE MAINS	8,438,180	2.58%	217,313	2.07%	174,491	-0.51%	-42,822
361.10	COLLECTION SEWERS - GRAVITY MAINS	87,578,225	3.16%	2,770,629	2.29%	2,008,144	-0.87%	-762,485
361.20	MANHOLES	12,188,944	8.95%	1,091,274	4.76%	579,621	-4.19%	-511,653
363.00	SERVICES	12,222,470	10.72%	1,309,881	4.45%	543,745	-6.27%	-766,136
364.00	FLOW MEASURING DEVICES	237,618	21.58%	51,282	14.61%	34,720	-6.97%	-16,562
371.00	PUMPING EQUIPMENT	6,807,186	7.89%	537,073	5.15%	350,910	-2.74%	-186,163
380.00	TREATMENT EQUIPMENT	25,634,017	7.61%	1,951,852	4.80%	1,230,671	-2.81%	-721,181
382.00	OUTFALL SEWER LINES	73,525	14.35%	10,554	13.59%	9,990	-0.76%	-564
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT - INTANGIBLES	445,667	5.46%	24,316	4.94%	22,001	-0.52%	-2,315
390.00	OFFICE FURNITURE AND EQUIPMENT	280,503	5.30%	14,875	5.31%	14,908	0.01%	33
391.00	TRANSPORTATION EQUIPMENT	673,949	11.92%	80,327	8.83%	59,530	-3.09%	-20,797
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	385,042	5.16%	19,850	5.15%	19,831	-0.01%	-19
394.00	LABORATORY EQUIPMENT	57,417	6.55%	3,763	6.58%	3,776	0.03%	13
395.00	POWER OPERATED EQUIPMENT	651,788	8.48%	55,243	5.71%	37,221	-2.77%	-18,022
396.00	COMMUNICATION EQUIPMENT	938,448	8.44%	79,209	8.44%	79,225	0.00%	16
397.00	MISCELLANEOUS EQUIPMENT	87,575	7.07%	6,195	7.05%	6,176	-0.02%	-19
	Total Butler Area Sewer Authority	220,462,501	4.86%	10,716,015	3.10%	6,833,684	-1.76%	-3,882,331
	Wastewater Combined Sewer System (CSS)							
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	45,811,236	2.55%	1,166,576	2.20%	1,007,027	-0.35%	-159,549
354.30	STRUCTURES AND IMPROVEMENTS - SPP	25,842,327	2.14%	552,626	1.59%	409,722	-0.55%	-142,904
354.40	STRUCTURES AND IMPROVEMENTS - TDP	134,343,428	1.82%	2,446,154	1.45%	1,946,289	-0.37%	-499,865
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	580,901	3.72%	21,585	2.90%	16,860	-0.82%	-4,725
355.00	POWER GENERATING EQUIPMENT	4,132,797	3.84%	158,838	2.77%	114,667	-1.07%	-44,171
360.10	COLLECTION SEWERS - FORCE MAINS	18,338,501	1.54%	282,469	1.33%	243,441	-0.21%	-39,028
361.10	COLLECTION SEWERS - GRAVITY MAINS	430,657,642	1.37%	5,902,204	1.18%	5,068,605	-0.19%	-833,599
361.20	MANHOLES	46,202,436	3.45%	1,593,968	2.32%	1,072,802	-1.13%	-521,166
363.00	SERVICES	19,377,899	2.90%	561,422	2.27%	439,872	-0.63%	-121,550
364.00	FLOW MEASURING DEVICES	2,607,930	7.47%	194,799	5.89%	153,584	-1.58%	-41,215
371.00	PUMPING EQUIPMENT	18,747,261	3.90%	731,221	3.02%	566,069	-0.88%	-165,152

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2026	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
380.00	TREATMENT EQUIPMENT	86,460,163	3.24%	2,798,583	2.75%	2,378,848	-0.49%	-419,735
381.00	PLANT SEWERS	1,576,345	1.94%	30,529	1.73%	27,288	-0.21%	-3,241
382.00	OUTFALL SEWER LINES	499,404	2.15%	10,721	1.87%	9,318	-0.28%	-1,403
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT	10,813,551	5.65%	610,937	4.88%	527,232	-0.77%	-83,705
390.00	OFFICE FURNITURE AND EQUIPMENT	4,194,872	5.48%	229,792	5.48%	229,956	0.00%	164
391.00	TRANSPORTATION EQUIPMENT	10,490,097	6.87%	720,750	6.65%	697,997	-0.22%	-22,753
392.00	STORES EQUIPMENT	176,309	4.15%	7,319	4.16%	7,336	0.01%	17
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	5,393,193	4.85%	261,343	4.85%	261,565	0.00%	222
394.00	LABORATORY EQUIPMENT	2,906,362	6.50%	188,834	6.49%	188,616	-0.01%	-218
395.00	POWER OPERATED EQUIPMENT	2,309,684	4.05%	93,443	3.58%	82,573	-0.47%	-10,870
396.00	COMMUNICATION EQUIPMENT	3,033,833	7.31%	221,717	7.31%	221,891	0.00%	174
397.00	MISCELLANEOUS EQUIPMENT	2,857,284	6.92%	197,654	6.95%	198,700	0.03%	1,046
	Total Wastewater Combined Sewer System	877,353,456	2.16%	18,983,484	1.81%	15,870,260	-0.35%	-3,113,224
	Elizabeth Borough Wastewater							
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	204,838	5.27%	10,803	4.55%	9,321	-0.72%	-1,482
354.30	STRUCTURES AND IMPROVEMENTS - SPP	6,131,131	2.96%	181,699	1.94%	118,833	-1.02%	-62,866
354.40	STRUCTURES AND IMPROVEMENTS - TDP	1,561,716	4.02%	62,817	2.95%	46,131	-1.07%	-16,686
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	44,831	9.16%	4,107	7.55%	3,386	-1.61%	-721
355.00	POWER GENERATING EQUIPMENT	126,051	4.39%	5,538	3.17%	4,001	-1.22%	-1,537
360.10	COLLECTION SEWERS - FORCE MAINS	289,282	1.63%	4,703	1.40%	4,059	-0.23%	-644
361.10	COLLECTION SEWERS - GRAVITY MAINS	12,250,747	2.29%	281,021	1.72%	210,337	-0.57%	-70,684
361.20	MANHOLES	420,172	13.95%	58,628	4.69%	19,697	-9.26%	-38,931
363.00	SERVICES	12,000	2.53%	303	2.13%	255	-0.40%	-48
364.00	FLOW MEASURING DEVICES	466,102	20.23%	94,311	13.85%	64,554	-6.38%	-29,757
370.00	RECEIVING WELLS	181,963	2.50%	4,542	2.16%	3,929	-0.34%	-613
371.00	PUMPING EQUIPMENT	1,182,839	6.21%	73,410	3.87%	45,762	-2.34%	-27,648
380.00	TREATMENT EQUIPMENT	1,648,981	7.91%	130,370	3.94%	65,004	-3.97%	-65,366
381.00	PLANT SEWERS	1,288,883	3.33%	42,935	2.62%	33,722	-0.71%	-9,213
382.00	OUTFALL SEWER LINES	2,828	2.51%	71	2.16%	61	-0.35%	-10
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT - INTANGIBLES	11,608	8.62%	1,001	7.48%	868	-1.14%	-133
390.00	OFFICE FURNITURE AND EQUIPMENT	58,891	6.78%	3,995	6.79%	4,001	0.01%	6
391.00	TRANSPORTATION EQUIPMENT	47,639	32.62%	15,541	20.08%	9,568	-12.54%	-5,973
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	506,530	12.67%	64,161	12.66%	64,125	-0.01%	-36
394.00	LABORATORY EQUIPMENT	22,808	39.87%	9,093	39.81%	9,081	-0.06%	-12

Detailed Rate Comparison - 2025

		[1]	[2]		[3]		[4]	
			PAWC Position		OCA Position		OCA Adjustment	
Account No.	Description	Plant 6/30/2026	Rate	Annual Accrual	Rate	Annual Accrual	Rate	Annual Accrual
395.00	POWER OPERATED EQUIPMENT	1,425	84.52%	1,204	73.24%	1,043	-11.28%	-161
396.00	COMMUNICATION EQUIPMENT	168,797	8.67%	14,628	8.70%	14,689	0.03%	61
	Total Elizabeth Borough Wastewater	26,630,061	4.00%	1,064,881	2.75%	732,425	-1.25%	-332,456
	TOTAL PLANT STUDIED	**9,471,866,123**	**2.66%**	**251,808,123**	**2.13%**	**201,657,731**	**-0.53%**	**-50,150,392**

[1], [2] From Company depreciation study

[3] From Exhibit DJG-21

[4] = [3] - [2]

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2026	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
	Water Operations								
303.14	WATER RIGHTS - HIBERNIA	1,942,823	SQ	25	1,942,823	0			
303.35	WASTE HANDLING AND TREATMENT LAND	155,025	R3	100	133,333	21,692	67.25	323	0.21%
303.99	COMPREHENSIVE PLANNING STUDIES	15,691,832	SQ	5	11,619,274	4,072,558	2.50	1,629,023	10.38%
304.15	OTHER WATER SOURCE STRUCTURES	123,448,677	S0.5	50	15,444,350	108,004,327	43.28	2,495,479	2.02%
304.20	POWER AND PUMING STRUCTURES								
	LARGE STRUCTURES	56,902,089	S0.5	75	10,490,580	46,411,509	60.21	770,827	1.35%
	OTHER STRUCTURES	80,622,784	R3	55	10,904,625	69,718,159	41.83	1,666,702	2.07%
	TOTAL ACCOUNT 304.20	137,524,873			21,395,205	116,129,668	47.64	2,437,530	1.77%
304.30	PURIFICATION BUILDINGS								
	LARGE STRUCTURES	364,806,611	S1	55	122,886,694	241,919,917	41.89	5,775,123	1.58%
	OTHER STRUCTURES	75,971,039	R3	60	16,446,346	59,524,693	48.59	1,225,040	1.61%
	TOTAL ACCOUNT 304.30	440,777,650			139,333,040	301,444,610	43.06	7,000,163	1.59%
304.36	WASTE HANDLING AND TREATMENT STRUCTURES	28,441,582	S1	55	8,792,092	19,649,490	41.45	474,053	1.67%
304.38	WASTE HANDLING AND TREATMENT STRUCTURES PAINTING	1,403,439	SQ	10	743,896	659,543	5.00	131,909	9.40%
304.39	PURIFICATION BUILDINGS - TANK PAINTING	968,752	SQ	10	378,827	589,925	7.00	84,275	8.70%
304.61	OFFICE BUILDINGS								
	LARGE STRUCTURES	29,028,974	S0	55	8,873,754	20,155,220	46.10	437,207	1.51%
	OTHER OTHER STRUCTURES	15,321,845	R3	50	4,701,637	10,620,208	35.48	299,329	1.95%
	TOTAL ACCOUNT 304.61	44,350,819			13,575,391	30,775,428	41.78	736,536	1.66%
304.62	STORES, SHOP AND GARAGE BUILDINGS								
	LARGE STRUCTURES	59,397,332	S0.5	55	20,288,067	39,109,265	46.14	847,622	1.43%
	OTHER OTHER STRUCTURES	9,332,330	R3	45	4,594,965	4,737,365	29.74	159,293	1.71%
	TOTAL ACCOUNT 304.62	68,729,662			24,883,032	43,846,630	43.55	1,006,914	1.47%
304.65	MISCELLANEOUS STRUCTURES AND IMPROVEMENTS	5,587,737	S0.5	35	4,589,096	998,641	27.38	36,473	0.65%
305.00	COLLECTING AND IMPOUNDING RESERVOIRS								
	LARGE RESERVOIRS	164,029,414	R2	130	19,629,651	144,399,763	60.40	2,390,725	1.46%
	OTHER RESERVOIRS	11,419,519	R3	75	1,152,502	10,267,017	65.65	156,390	1.37%
	TOTAL ACCOUNT 305.00	175,448,933			20,782,153	154,666,780	60.72	2,547,115	1.45%
306.00	LAKE, RIVER AND OTHER INTAKES								
	LARGE RESERVOIRS	12,329,112	S1.5	55	5,558,434	6,770,678	29.57	228,971	1.86%
	OTHER RESERVOIRS	8,189,556	S0.5	50	1,996,091	6,193,465	38.38	161,372	1.97%
	TOTAL ACCOUNT 306.00	20,518,669			7,554,525	12,964,144	33.21	390,343	1.90%

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2026	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
307.00	WELLS AND SPRINGS	14,361,759	S0	55	4,957,929	9,403,830	40.00	235,096	1.64%
310.00	POWER GENERATION EQUIPMENT	26,827,956	S0.5	45	8,188,777	18,639,179	35.58	523,867	1.95%
	PUMPING EQUIPMENT								
311.20	ELECTRIC PUMPING EQUIPMENT	23,802,038	S0	39	5,828,049	17,973,989	31.97	562,214	2.36%
311.50	OTHER	29,718,053	S0	39	2,913,518	26,804,535	35.86	747,477	2.52%
311.52	SOURCE OF SUPPLY	11,405,625	S0	39	3,446,321	7,959,304	30.30	262,683	2.30%
311.53	WATER TREATMENT	48,154,022	S0	39	27,290,584	20,863,438	19.60	1,064,461	2.21%
311.54	TRANSMISSION AND DISTRIBUTION	9,832,787	S0	39	2,980,164	6,852,623	29.92	229,032	2.33%
	TOTAL ACCOUNT 311.00	122,912,524			42,458,636	80,453,888	28.07	2,865,867	2.33%
	PURIFICATION SYSTEM								
320.10	LARGE STRUCTURES	239,312,277	S1	50	98,601,308	140,710,969	34.18	4,116,763	1.72%
320.11	OTHER LARGE STRUCTURES	18,215,878	R3	55	5,385,625	12,830,253	40.79	314,544	1.73%
	TOTAL ACCOUNT 320.10	257,528,155			103,986,933	153,541,222	34.65	4,431,307	1.72%
	ACCOUNT 320.00								
320.18	LARGE STRUCTURES PAINT	103,246	SQ	10	103,246	0			
320.19	LARGE STRUCTURES PAINT	4,370,191	SQ	10	3,436,872	933,319	5.90	158,190	3.62%
320.20	CHEMICAL TREATMENT	163,925,562	R0.5	42	43,183,756	120,741,806	35.42	3,408,860	2.08%
320.29	CHEMICAL TREATMENT PAINT	8,168			8,168	0			
320.30	GRANULAR ACTIVATED CARBON	24,011,056	L0.5	11	10,245,118	13,765,938	7.60	1,811,308	7.54%
320.37	WASTE HANDLING AND TREATMENT - EQUIPMENT	20,634,881	R3	30	10,952,554	9,682,327	16.07	602,509	2.92%
	TOTAL ACCOUNT 320.00	213,053,103			67,929,714	145,123,389	24.26	5,980,866	2.81%
	ACCOUNT 330.00								
330.00	DISTRIBUTION RESERVOIRS AND STANDPIPES	136,254,296	S0.5	65	49,403,016	86,851,280	47.64	1,823,075	1.34%
330.10	ELEVATED TANKS AND STANDPIPES	17,848,701	S0.5	65	3,290,822	14,557,879	56.53	257,525	1.44%
330.20	GROUND LEVEL FACILITIES	19,120,765	S0.5	65	4,131,913	14,988,852	55.09	272,079	1.42%
330.30	BELOW GRADE FACILITIES	818,707	S0.5	65	210,865	607,842	53.12	11,443	1.40%
330.40	CLEARWELL	19,670,178	S0.5	65	3,591,759	16,078,419	56.24	285,889	1.45%
330.58	DISTRIBUTION RESERVOIRS AND STANDPIPES - PAINTING	2,918,574	SQ	10	2,370,212	548,362	7.70	71,216	2.44%
330.59	DISTRIBUTION RESERVOIRS AND STANDPIPES - PAINTING	48,464,875	SQ	10	33,858,975	14,605,900	5.70	2,562,439	5.29%
	TOTAL ACCOUNT 330.00	245,096,098			96,857,562	148,238,536	28.06	5,283,666	2.16%
331.00	MAINS AND ACCESSORIES	3,721,242,317	R2	90	433,347,090	3,287,895,227	77.07	42,661,155	1.15%
333.00	SERVICES	848,543,221	R2.5	65	170,313,381	678,229,840	51.21	13,244,090	1.56%
334.00	METERS AND METER INSTALLATIONS	304,640,968	L1.5	20	93,095,796	211,545,172	14.52	14,569,227	4.78%
335.00	FIRE HYDRANTS	165,807,649	R2	60	25,919,593	139,888,056	48.89	2,861,282	1.73%
340.00	OFFICE FURNITURE AND EQUIPMENT								
	FURNITURE	10,047,342	SQ	20	2,637,160	7,410,182	11.80	627,981	6.25%

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2026	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
	COMPUTERS AND PERIPHERAL EQUIPMENT	22,888,705	SQ	5	9,250,048	13,638,657	2.10	6,494,599	28.37%
	COMPUTER SOFTWARE	88,254,943	SQ	5	33,961,388	54,293,555	2.30	23,605,893	26.75%
	COMPUTER SOFTWARE - ENTERPRISE SOLUTIONS	696,707	SQ	10	505,030	191,677	2.00	95,839	13.76%
	OTHER OFFICE EQUIPMENT	58,898	SQ	10	6,407	52,491	4.70	11,168	18.96%
	TOTAL ACCOUNT 340.00	121,946,595			46,360,033	75,586,562	2.45	30,835,481	25.29%
341.00	TRANSPORATION EQUIPMENT								
	NOT CLASSIFIED	38,598	L2.5	10	7,882	30,716	8.78	3,498	9.06%
	LIGHT DUTY TRUCKS	82,028,853	L2.5	10	46,569,736	35,459,117	6.27	5,655,362	6.89%
	EQUIPMENT	15,276,635	L2.5	10	14,562,296	714,339	4.10	174,229	1.14%
	AUTOS	2,022,390	L2.5	10	2,022,390	0			
	OTHER	7,685,814	L2.5	10	7,221,254	464,560	4.22	110,085	1.43%
	TOTAL ACCOUNT 341.00	107,052,291			70,383,558	36,668,733	6.17	5,943,174	5.55%
342.00	STORES EQUIPMENT	477,263	SQ	20	161,753	315,510	10.60	29,765	6.24%
343.00	TOOLS AND WORK EQUIPMENT	82,457,474	SQ	20	19,387,098	63,070,376	14.40	4,379,887	5.31%
344.00	LABORATORY EQUIPMENT	2,539,077	SQ	20	866,063	1,673,014	7.90	211,774	8.34%
345.00	POWER OPERATED EQUIPMENT	3,091,859	S0.5	21	1,785,262	1,306,597	11.20	116,660	3.77%
346.00	COMUNICATION EQUIPMENT								
	EQUIPMENT	5,520,780	SQ	15	1,347,776	4,173,004	11.40	366,053	6.63%
	NON-TELEPHONE	13,878,764	SQ	15	3,585,121	10,293,643	10.50	980,347	7.06%
	REMOTE CONTROL AND INSTRUMENTATION	12,716,949	SQ	10	3,337,980	9,378,969	7.40	1,267,428	9.97%
	TELEPHONE	213,745	SQ	10	143,617	70,128	2.70	25,973	12.15%
	TOTAL ACCOUNT 346.00	32,330,238			8,414,494	23,915,744	9.06	2,639,801	8.17%
347.00	MISCELLANEOUS EQUIPMENT	28,099,483	SQ	25	7,890,954	20,208,529	16.80	1,202,889	4.28%
348.00	OTHER TANGIBLE EQUIPMENT	14,545,575	SQ	25	855,364	13,690,211	22.70	603,093	4.15%
	Total Water Operations	7,377,544,075			1,474,327,027	5,903,217,048	37.46	157,589,083	2.14%
	Wastewater Sanitary Sewer System (SSS)								
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	12,274,079	R3	45	648,304	11,625,775	41.38	280,952	2.29%
354.30	STRUCTURES AND IMPROVEMENTS - SPP	28,946,012	S0	55	8,083,706	20,862,306	43.43	480,366	1.66%
354.40	STRUCTURES AND IMPROVEMENTS - TDP	296,544,707	S0	55	101,958,645	194,586,062	34.42	5,653,285	1.91%
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	8,027,455	S1	35	2,368,525	5,658,930	29.65	190,858	2.38%
355.00	POWER GENERATION EQUIPMENT	7,137,994	S0.5	35	3,800,401	3,337,593	23.80	140,235	1.96%
360.10	COLLECTION SEWERS - FORCE MAINS	46,364,017	R3	75	7,998,825	38,365,192	59.10	649,157	1.40%
361.10	COLLECTION SEWERS - GRAVITY MAINS	254,095,190	R2.5	80	54,982,334	199,112,856	57.71	3,450,231	1.36%
361.20	MANHOLES	47,699,869	S2.5	50	15,235,074	32,464,795	27.27	1,190,495	2.50%
363.00	SERVICES	64,832,866	R3	47	27,613,021	37,219,845	25.55	1,456,745	2.25%

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2026	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
364.00	FLOW MEASURING DEVICES	724,745	L2.5	15	511,642	213,103	6.49	32,836	4.53%
365.00	FLOW MEASURING INSTALLATIONS	272,564	S2	25	272,455	109	3.61	30	0.01%
370.00	RECEIVING WELLS	677,388	R3	50	90,120	587,268	41.52	14,144	2.09%
371.00	PUMPING EQUIPMENT	20,392,676	S0.5	30	4,546,419	15,846,257	23.29	680,389	3.34%
380.00	TREATMENT EQUIPMENT	151,948,874	S1.5	35	38,413,871	113,535,003	23.08	4,919,194	3.24%
381.00	PLANT SEWERS	6,624,603	R3	50	1,996,641	4,627,962	34.99	132,265	2.00%
382.00	OUTFALL SEWER LINES	626,996	R3	50	273,844	353,152	29.80	11,851	1.89%
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT - INTANGIBLES	2,659,061	S2.5	20	657,026	2,002,035	16.02	124,971	4.70%
390.00	OFFICE FURNITURE AND EQUIPMENT	3,634,697	SQ	20	426,356	3,208,341	16.90	189,843	5.22%
391.00	TRANSPORTATION EQUIPMENT	4,786,161	L4	14	1,737,049	3,049,112	8.87	343,756	7.18%
392.00	STORES EQUIPMENT	107,351	SQ	25	47,013	60,338	13.70	4,404	4.10%
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	1,663,556	SQ	20	531,316	1,132,240	14.10	80,301	4.83%
394.00	LABORATORY EQUIPMENT	863,406	SQ	15	240,081	623,325	6.80	91,665	10.62%
395.00	POWER OPERATED EQUIPMENT	427,100	R2	22	296,921	130,179	11.64	11,184	2.62%
396.00	COMMUNICATION EQUIPMENT	4,157,904	SQ	15	1,218,856	2,939,048	10.00	293,905	7.07%
397.00	MISCELLANEOUS EQUIPMENT	1,871,658	SQ	15	653,562	1,218,096	11.10	109,738	5.86%
398.00	OTHER TANGIBLE PLANT	2,515,100	SQ	25	57,987	2,457,113	24.70	99,478	3.96%
	Total Wastewater Sanitary Sewer System	969,876,030			274,659,994	695,216,036	33.70	20,632,278	2.13%
	Butler Area Sewer Authority (BASA)								
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	465,513	R3	43	4,236	461,277	42.75	10,790	2.32%
354.30	STRUCTURES AND IMPROVEMENTS - SPP	36,968,125	S0	55	1,654,675	35,313,450	42.46	831,687	2.25%
354.40	STRUCTURES AND IMPROVEMENTS - TDP	17,268,436	S0	55	769,760	16,498,676	28.12	586,724	3.40%
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	7,747,804	S1	35	402,414	7,345,390	41.90	175,308	2.26%
355.00	POWER GENERATING EQUIPMENT	1,312,066	S0.5	35	94,927	1,217,139	22.45	54,216	4.13%
360.10	COLLECTION SEWERS - FORCE MAINS	8,438,180	R3	75	132,420	8,305,760	47.60	174,491	2.07%
361.10	COLLECTION SEWERS - GRAVITY MAINS	87,578,225	R2.5	80	3,657,900	83,920,325	41.79	2,008,144	2.29%
361.20	MANHOLES	12,188,944	S2.5	50	1,454,357	10,734,587	18.52	579,621	4.76%
363.00	SERVICES	12,222,470	R3	47	1,554,196	10,668,274	19.62	543,745	4.45%
364.00	FLOW MEASURING DEVICES	237,618	L2.5	15	87,280	150,338	4.33	34,720	14.61%
371.00	PUMPING EQUIPMENT	6,807,186	S0.5	30	771,534	6,035,652	17.20	350,910	5.15%
380.00	TREATMENT EQUIPMENT	25,634,017	S1.5	35	2,718,923	22,915,094	18.62	1,230,671	4.80%
382.00	OUTFALL SEWER LINES	73,525	R3	50	13,684	59,841	5.99	9,990	13.59%
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT - INTANGIBLES	445,667	S2.5	20	11,142	434,525	19.75	22,001	4.94%
390.00	OFFICE FURNITURE AND EQUIPMENT	280,503	SQ	20	18,131	262,372	17.60	14,908	5.31%
391.00	TRANSPORTATION EQUIPMENT	673,949	L4	14	129,250	544,699	9.15	59,530	8.83%
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	385,042	SQ	20	4,285	380,757	19.20	19,831	5.15%
394.00	LABORATORY EQUIPMENT	57,417	SQ	20	1,915	55,502	14.70	3,776	6.58%
395.00	POWER OPERATED EQUIPMENT	651,788	R2	22	89,383	562,405	15.11	37,221	5.71%
396.00	COMMUNICATION EQUIPMENT	938,448	SQ	15	43,204	895,244	11.30	79,225	8.44%

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2026	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
397.00	MISCELLANEOUS EQUIPMENT	87,575	SQ	15	5,433	82,142	13.30	6,176	7.05%
	Total Butler Area Sewer Authority	220,462,501			13,619,049	206,843,452	30.27	6,833,684	3.10%
	Wastewater Combined Sewer System (CSS)								
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	45,811,236	R3	45	3,254,276	42,556,960	42.26	1,007,027	2.20%
354.30	STRUCTURES AND IMPROVEMENTS - SPP	25,842,327	S0	55	8,547,965	17,294,362	42.21	409,722	1.59%
354.40	STRUCTURES AND IMPROVEMENTS - TDP	134,343,428	S0	55	60,890,483	73,452,945	37.74	1,946,289	1.45%
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	580,901	S1	35	5,460	575,441	34.13	16,860	2.90%
355.00	POWER GENERATING EQUIPMENT	4,132,797	S0.5	35	546,012	3,586,785	31.28	114,667	2.77%
360.10	COLLECTION SEWERS - FORCE MAINS	18,338,501	R3	75	1,304,933	17,033,568	69.97	243,441	1.33%
361.10	COLLECTION SEWERS - GRAVITY MAINS	430,657,642	R2.5	80	162,224,309	268,433,333	52.96	5,068,605	1.18%
361.20	MANHOLES	46,202,436	S2.5	50	17,826,828	28,375,608	26.45	1,072,802	2.32%
363.00	SERVICES	19,377,899	R3	47	5,605,508	13,772,391	31.31	439,872	2.27%
364.00	FLOW MEASURING DEVICES	2,607,930	L2.5	15	1,291,714	1,316,216	8.57	153,584	5.89%
371.00	PUMPING EQUIPMENT	18,747,261	S0.5	30	6,237,126	12,510,135	22.10	566,069	3.02%
380.00	TREATMENT EQUIPMENT	86,460,163	S1.5	35	34,601,283	51,858,880	21.80	2,378,848	2.75%
381.00	PLANT SEWERS	1,576,345	R3	50	894,142	682,203	25.00	27,288	1.73%
382.00	OUTFALL SEWER LINES	499,404	R3	50	78,129	421,275	45.21	9,318	1.87%
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT	10,813,551	S2.5	20	4,439,311	6,374,240	12.09	527,232	4.88%
390.00	OFFICE FURNITURE AND EQUIPMENT	4,194,872	SQ	20	929,496	3,265,376	14.20	229,956	5.48%
391.00	TRANSPORTATION EQUIPMENT	10,490,097	L4	14	5,283,039	5,207,058	7.46	697,997	6.65%
392.00	STORES EQUIPMENT	176,309	SQ	25	29,593	146,716	20.00	7,336	4.16%
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	5,393,193	SQ	20	1,181,998	4,211,195	16.10	261,565	4.85%
394.00	LABORATORY EQUIPMENT	2,906,362	SQ	15	322,319	2,584,043	13.70	188,616	6.49%
395.00	POWER OPERATED EQUIPMENT	2,309,684	R2	22	1,182,561	1,127,123	13.65	82,573	3.58%
396.00	COMMUNICATION EQUIPMENT	3,033,833	SQ	15	1,347,460	1,686,373	7.60	221,891	7.31%
397.00	MISCELLANEOUS EQUIPMENT	2,857,284	SQ	15	1,009,373	1,847,911	9.30	198,700	6.95%
	Total Wastewater Combined Sewer System	877,353,456			319,033,318	558,320,138	35.18	15,870,260	1.81%
	Elizabeth Borough Wastewater								
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	204,838	R3	45	717	204,121	21.90	9,321	4.55%
354.30	STRUCTURES AND IMPROVEMENTS - SPP	6,131,131	S0	55	27,869	6,103,262	51.36	118,833	1.94%
354.40	STRUCTURES AND IMPROVEMENTS - TDP	1,561,716	S0	55	7,099	1,554,617	33.70	46,131	2.95%
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	44,831	S1	35	101	44,730	13.21	3,386	7.55%
355.00	POWER GENERATING EQUIPMENT	126,051	S0.5	35	901	125,150	31.28	4,001	3.17%
360.10	COLLECTION SEWERS - FORCE MAINS	289,282	R3	75	651	288,631	71.11	4,059	1.40%
361.10	COLLECTION SEWERS - GRAVITY MAINS	12,250,747	R2.5	80	36,504	12,214,243	58.07	210,337	1.72%

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2026	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
361.20	MANHOLES	420,172	S2.5	50	425	419,747	21.31	19,697	4.69%
363.00	SERVICES	12,000	R3	47	64	11,936	46.75	255	2.13%
364.00	FLOW MEASURING DEVICES	466,102	L2.5	15	7,769	458,333	7.10	64,554	13.85%
370.00	RECEIVING WELLS	181,963	R3	50	910	181,053	46.08	3,929	2.16%
371.00	PUMPING EQUIPMENT	1,182,839	S0.5	30	9,509	1,173,330	25.64	45,762	3.87%
380.00	TREATMENT EQUIPMENT	1,648,981	S1.5	35	10,880	1,638,101	25.20	65,004	3.94%
381.00	PLANT SEWERS	1,288,883	R3	50	6,445	1,282,438	38.03	33,722	2.62%
382.00	OUTFALL SEWER LINES	2,828	R3	50	14	2,814	46.08	61	2.16%
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT - INTANGIBLES	11,608	S2.5	20	145	11,463	13.20	868	7.48%
390.00	OFFICE FURNITURE AND EQUIPMENT	58,891	SQ	20	-317	59,208	14.80	4,001	6.79%
391.00	TRANSPORTATION EQUIPMENT	47,639	L4	14	851	46,788	4.89	9,568	20.08%
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	506,530	SQ	20	-6,466	512,996	8.00	64,125	12.66%
394.00	LABORATORY EQUIPMENT	22,808	SQ	15	-3,526	26,334	2.90	9,081	39.81%
395.00	POWER OPERATED EQUIPMENT	1,425	R2	22	16	1,409	1.35	1,043	73.24%
396.00	COMMUNICATION EQUIPMENT	168,797	SQ	15	2,814	165,983	11.30	14,689	8.70%
	Total Elizabeth Borough Wastewater	26,630,061			103,375	26,526,686	36.22	732,425	2.75%
	TOTAL PLANT STUDIED	**9,471,866,123**			**2,081,742,763**	**7,390,123,360**	**36.65**	**201,657,731**	**2.13%**

[1], [3] From Company depreciation study

[2] Average life and Iowa curve shape developed through actuarial analysis and professional judgment

[4] = [1] - [3]

[5] Composite remaining life based on Iowa cuve in [2]; see remaining life exhibit for detailed calculations

[6] = [4] / [5]; (some unadjusted figures may be hard coded to match Company proposal)

[7] = [6] / [1]; (some unadjusted figures may hard coded to match Company proposal)

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2027	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
	Water Operations							
303.14	WATER RIGHTS - HIBERNIA	1,942,823	0.00%	0	0.00%	0	0.00%	0
303.35	WASTE HANDLING AND TREATMENT LAND	155,025	0.95%	1,468	0.20%	305	-0.75%	-1,163
303.99	COMPREHENSIVE PLANNING STUDIES	16,371,260	7.60%	1,244,093	7.75%	1,268,334	0.15%	24,241
304.15	OTHER WATER SOURCE STRUCTURES	123,448,677	2.70%	3,334,713	1.98%	2,447,812	-0.72%	-886,901
304.20	POWER AND PUMING STRUCTURES							
	LARGE STRUCTURES	56,902,089	2.91%	1,657,990	1.32%	749,804	-1.59%	-908,186
	OTHER STRUCTURES	80,622,784	2.54%	2,045,543	2.05%	1,653,184	-0.49%	-392,359
	TOTAL ACCOUNT 304.20	137,524,873	2.69%	3,703,533	1.75%	2,402,988	-0.95%	-1,300,545
304.30	PURIFICATION BUILDINGS							
	LARGE STRUCTURES	446,975,678	2.52%	11,285,566	1.74%	7,776,339	-0.78%	-3,509,227
	OTHER STRUCTURES	79,818,178	1.83%	1,463,015	1.61%	1,288,132	-0.22%	-174,883
	TOTAL ACCOUNT 304.30	526,793,857	2.42%	12,748,581	1.72%	9,064,471	-0.70%	-3,684,110
304.36	WASTE HANDLING AND TREATMENT STRUCTURES	28,441,582	3.55%	1,010,812	3.56%	1,011,755	0.01%	943
304.38	WASTE HANDLING AND TREATMENT STRUCTURES PAINTING	1,403,439	9.40%	131,904	9.40%	131,904	0.00%	0
304.39	PURIFICATION BUILDINGS - TANK PAINTING	968,752	8.70%	84,275	8.70%	84,275	0.00%	0
304.61	OFFICE BUILDINGS							
	LARGE STRUCTURES	29,028,974	3.56%	1,033,559	1.45%	421,228	-2.11%	-612,331
	OTHER OTHER STRUCTURES	15,321,845	2.16%	331,492	1.93%	296,184	-0.23%	-35,308
	TOTAL ACCOUNT 304.61	44,350,819	3.08%	1,365,051	1.62%	717,413	-1.46%	-647,638
304.62	STORES, SHOP AND GARAGE BUILDINGS							
	LARGE STRUCTURES	59,397,332	2.33%	1,383,448	1.41%	834,548	-0.92%	-548,900
	OTHER OTHER STRUCTURES	14,056,881	1.96%	275,922	1.94%	273,079	-0.02%	-2,843
	TOTAL ACCOUNT 304.62	73,454,212	2.26%	1,659,370	1.51%	1,107,627	-0.75%	-551,743
304.65	MISCELLANEOUS STRUCTURES AND IMPROVEMENTS	6,231,993	1.13%	70,315	0.96%	59,908	-0.17%	-10,407
305.00	COLLECTING AND IMPOUNDING RESERVOIRS							
	LARGE RESERVOIRS	180,995,576	1.43%	2,596,022	1.44%	2,597,843	0.01%	1,821
	OTHER RESERVOIRS	11,419,519	1.58%	180,570	1.36%	155,612	-0.22%	-24,958
	TOTAL ACCOUNT 305.00	192,415,095	1.44%	2,776,592	1.43%	2,753,455	-0.01%	-23,137

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2027	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
306.00	LAKE, RIVER AND OTHER INTAKES							
	LARGE RESERVOIRS	12,329,112	2.21%	272,718	1.81%	223,512	-0.40%	-49,206
	OTHER RESERVOIRS	8,189,556	2.57%	210,270	1.95%	159,504	-0.62%	-50,766
	TOTAL ACCOUNT 306.00	20,518,669	2.35%	482,988	1.87%	383,016	-0.49%	-99,972
307.00	WELLS AND SPRINGS	14,361,759	2.12%	305,094	1.61%	230,562	-0.51%	-74,532
310.00	POWER GENERATION EQUIPMENT	26,827,956	2.50%	671,718	1.92%	514,545	-0.58%	-157,173
	PUMPING EQUIPMENT							
311.20	ELECTRIC PUMPING EQUIPMENT	27,390,102	3.27%	895,902	2.31%	631,497	-0.96%	-264,405
311.50	OTHER	32,503,724	3.81%	1,237,149	2.54%	824,141	-1.27%	-413,008
311.52	SOURCE OF SUPPLY	11,405,625	3.02%	344,801	2.25%	256,488	-0.77%	-88,313
311.53	WATER TREATMENT	48,154,022	2.52%	1,214,043	2.13%	1,025,516	-0.39%	-188,527
311.54	TRANSMISSION AND DISTRIBUTION	9,832,787	3.06%	300,917	2.27%	223,588	-0.79%	-77,329
	TOTAL ACCOUNT 311.00	129,286,260	3.09%	3,992,812	2.29%	2,961,229	-0.80%	-1,031,583
	PURIFICATION SYSTEM							
320.10	LARGE STRUCTURES	293,129,033	2.64%	7,730,498	1.79%	5,254,302	-0.85%	-2,476,196
320.11	OTHER LARGE STRUCTURES	21,108,698	2.03%	429,455	1.96%	412,862	-0.07%	-16,593
	TOTAL ACCOUNT 320.10	314,237,731	2.60%	8,159,953	1.80%	5,667,164	-0.79%	-2,492,789
	ACCOUNT 320.00							
320.18	LARGE STRUCTURES PAINT	103,246	0.00%	0	0.00%	0	0.00%	0
320.19	LARGE STRUCTURES PAINT	4,370,191	3.64%	159,203	3.62%	158,010	-0.02%	-1,193
320.20	CHEMICAL TREATMENT	167,570,515	3.13%	5,243,263	2.03%	3,401,145	-1.10%	-1,842,118
320.29	CHEMICAL TREATMENT PAINT	8,168	0.00%	0	0.00%	0	0.00%	0
320.30	GRANULAR ACTIVATED CARBON	24,011,056	8.47%	2,034,065	6.46%	1,551,961	-2.01%	-482,104
320.37	WASTE HANDLING AND TREATMENT - EQUIPMENT	20,634,881	2.47%	509,089	2.87%	592,201	0.40%	83,112
	TOTAL ACCOUNT 320.00	216,698,056	3.67%	7,945,620	2.63%	5,703,316	-1.03%	-2,242,304
	ACCOUNT 330.00							
330.00	DISTRIBUTION RESERVOIRS AND STANDPIPES	165,939,183	1.76%	2,923,561	1.36%	2,257,242	-0.40%	-666,319
330.10	ELEVATED TANKS AND STANDPIPES	18,098,701	1.95%	353,449	1.43%	258,928	-0.52%	-94,521
330.20	GROUND LEVEL FACILITIES	19,120,765	1.91%	364,457	1.41%	269,405	-0.50%	-95,052
330.30	BELOW GRADE FACILITIES	818,707	1.85%	15,142	1.38%	11,324	-0.47%	-3,818
330.40	CLEARWELL	19,670,178	1.96%	385,806	1.44%	283,158	-0.52%	-102,648
330.58	DISTRIBUTION RESERVOIRS AND STANDPIPES - PAINTING	2,918,574	2.45%	71,535	2.44%	71,172	-0.01%	-363

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2027	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
330.59	DISTRIBUTION RESERVOIRS AND STANDPIPES - PAINTING	53,416,355	6.09%	3,252,002	6.06%	3,237,668	-0.03%	-14,334
	TOTAL ACCOUNT 330.00	279,982,464	2.63%	7,365,952	2.28%	6,388,897	-0.35%	-977,055
331.00	MAINS AND ACCESSORIES	3,874,948,430	1.48%	57,427,671	1.14%	44,048,629	-0.34%	-13,379,042
333.00	SERVICES	903,158,434	1.91%	17,277,194	1.56%	14,133,847	-0.35%	-3,143,347
334.00	METERS AND METER INSTALLATIONS	336,237,510	6.04%	20,302,642	4.60%	15,476,132	-1.44%	-4,826,510
335.00	FIRE HYDRANTS	171,565,288	2.20%	3,773,506	1.71%	2,941,035	-0.49%	-832,471
340.00	OFFICE FURNITURE AND EQUIPMENT							
	FURNITURE	10,028,093	5.98%	600,090	6.01%	602,745	0.03%	2,655
	COMPUTERS AND PERIPHERAL EQUIPMENT	24,026,537	26.20%	6,294,551	25.61%	6,153,064	-0.59%	-141,487
	COMPUTER SOFTWARE	82,506,778	27.38%	22,591,585	27.94%	23,052,800	0.56%	461,215
	COMPUTER SOFTWARE - ENTERPRISE SOLUTIONS	6,584,096	9.96%	655,483	9.99%	657,870	0.03%	2,387
	OTHER OFFICE EQUIPMENT	37,508	22.13%	8,302	21.93%	8,225	-0.20%	-77
	TOTAL ACCOUNT 340.00	123,183,013	24.48%	30,150,011	24.74%	30,474,704	0.26%	324,693
341.00	TRANSPORATION EQUIPMENT							
	NOT CLASSIFIED	38,598	10.65%	4,111	8.73%	3,369	-1.92%	-742
	LIGHT DUTY TRUCKS	87,782,007	7.89%	6,924,709	6.82%	5,984,424	-1.07%	-940,285
	EQUIPMENT	15,276,635	1.02%	155,768	0.88%	134,611	-0.14%	-21,157
	AUTOS	2,022,390	0.00%	0	0.00%	0	0.00%	0
	OTHER	7,685,814	1.14%	87,798	1.20%	92,435	0.06%	4,637
	TOTAL ACCOUNT 341.00	112,805,445	6.36%	7,172,386	5.51%	6,214,839	-0.85%	-957,547
342.00	STORES EQUIPMENT	477,134	6.43%	30,698	6.44%	30,728	0.01%	30
343.00	TOOLS AND WORK EQUIPMENT	89,135,730	5.24%	4,666,300	5.25%	4,680,370	0.01%	14,070
344.00	LABORATORY EQUIPMENT	2,409,469	7.52%	181,076	7.51%	181,035	-0.01%	-41
345.00	POWER OPERATED EQUIPMENT	3,091,859	3.55%	109,779	3.59%	111,073	0.04%	1,294
346.00	COMUNICATION EQUIPMENT							
	EQUIPMENT	5,520,521	6.19%	341,816	6.21%	342,753	0.02%	937
	NON-TELEPHONE	16,484,383	7.10%	1,169,873	7.07%	1,165,305	-0.03%	-4,568
	REMOTE CONTROL AND INSTRUMENTATION	19,797,455	10.39%	2,057,010	10.40%	2,059,404	0.01%	2,394
	TELEPHONE	191,017	12.03%	22,985	12.31%	23,520	0.28%	535
	TOTAL ACCOUNT 346.00	41,993,377	8.55%	3,591,684	8.55%	3,590,982	0.00%	-702
347.00	MISCELLANEOUS EQUIPMENT	27,210,868	4.46%	1,212,380	4.46%	1,213,298	0.00%	918
348.00	OTHER TANGIBLE EQUIPMENT	29,260,575	4.09%	1,197,868	4.10%	1,199,583	0.01%	1,715

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2027	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
	Total Water Operations	7,870,892,434	2.59%	204,148,039	2.12%	167,195,229	-0.47%	-36,952,810
	Wastewater Sanitary Sewer System (SSS)							
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	13,810,053	2.64%	364,608	2.28%	315,274	-0.36%	-49,334
354.30	STRUCTURES AND IMPROVEMENTS - SPP	28,946,012	2.23%	645,352	1.63%	471,714	-0.60%	-173,638
354.40	STRUCTURES AND IMPROVEMENTS - TDP	296,544,707	2.38%	7,064,864	1.87%	5,532,619	-0.51%	-1,532,245
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	8,266,302	2.98%	246,323	2.39%	197,914	-0.59%	-48,409
355.00	POWER GENERATION EQUIPMENT	7,137,994	2.30%	163,924	1.92%	136,848	-0.38%	-27,076
360.10	COLLECTION SEWERS - FORCE MAINS	59,439,411	1.71%	1,017,252	1.45%	861,011	-0.26%	-156,241
361.10	COLLECTION SEWERS - GRAVITY MAINS	259,890,456	1.65%	4,283,621	1.35%	3,495,583	-0.30%	-788,038
361.20	MANHOLES	49,602,157	3.75%	1,857,619	2.40%	1,192,295	-1.35%	-665,324
363.00	SERVICES	75,766,904	3.37%	2,554,203	2.32%	1,754,770	-1.05%	-799,433
364.00	FLOW MEASURING DEVICES	724,745	4.43%	32,108	3.92%	28,381	-0.51%	-3,727
365.00	FLOW MEASURING INSTALLATIONS	272,564	0.00%	13	0.01%	33	0.01%	20
370.00	RECEIVING WELLS	677,388	2.38%	16,137	2.08%	14,075	-0.30%	-2,062
371.00	PUMPING EQUIPMENT	20,702,725	4.31%	892,077	3.25%	673,081	-1.06%	-218,996
380.00	TREATMENT EQUIPMENT	156,696,457	3.96%	6,202,424	3.15%	4,932,618	-0.81%	-1,269,806
381.00	PLANT SEWERS	6,624,603	2.26%	149,534	1.98%	131,364	-0.28%	-18,170
382.00	OUTFALL SEWER LINES	626,996	2.08%	13,060	1.87%	11,726	-0.21%	-1,334
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT - INTANGIBLES	2,659,061	5.13%	136,280	4.65%	123,598	-0.48%	-12,682
390.00	OFFICE FURNITURE AND EQUIPMENT	3,634,697	5.23%	190,172	5.22%	189,650	-0.01%	-522
391.00	TRANSPORTATION EQUIPMENT	5,081,403	7.69%	391,009	7.03%	357,142	-0.66%	-33,867
392.00	STORES EQUIPMENT	107,351	4.11%	4,409	4.10%	4,403	-0.01%	-6
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	1,873,739	5.39%	100,964	5.37%	100,601	-0.02%	-363
394.00	LABORATORY EQUIPMENT	932,413	9.85%	91,884	9.82%	91,590	-0.03%	-294
395.00	POWER OPERATED EQUIPMENT	427,100	2.68%	11,459	2.50%	10,684	-0.18%	-775
396.00	COMMUNICATION EQUIPMENT	4,276,685	7.09%	303,026	7.11%	303,964	0.02%	938
397.00	MISCELLANEOUS EQUIPMENT	1,896,881	5.95%	112,791	5.94%	112,623	-0.01%	-168
398.00	OTHER TANGIBLE PLANT	2,515,100	3.91%	98,366	3.91%	98,240	0.00%	-126
	Total Wastewater Sanitary Sewer System	1,009,133,906	2.67%	26,943,479	2.10%	21,141,801	-0.57%	-5,801,678
	Butler Area Sewer Authority (BASA)							

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2027	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	23,381,312	2.61%	610,153	2.31%	539,158	-0.30%	-70,995
354.30	STRUCTURES AND IMPROVEMENTS - SPP	36,968,125	3.05%	1,128,128	2.21%	817,245	-0.84%	-310,883
354.40	STRUCTURES AND IMPROVEMENTS - TDP	17,268,436	4.08%	703,940	3.30%	569,637	-0.78%	-134,303
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	8,298,055	6.28%	521,474	2.11%	175,501	-4.17%	-345,973
355.00	POWER GENERATING EQUIPMENT	1,312,066	5.12%	67,116	4.01%	52,606	-1.11%	-14,510
360.10	COLLECTION SEWERS - FORCE MAINS	8,441,561	2.56%	215,908	2.05%	173,005	-0.51%	-42,903
361.10	COLLECTION SEWERS - GRAVITY MAINS	95,428,998	3.00%	2,863,464	2.11%	2,009,548	-0.89%	-853,916
361.20	MANHOLES	12,276,905	7.98%	979,592	4.30%	527,966	-3.68%	-451,626
363.00	SERVICES	12,569,796	9.53%	1,197,712	3.87%	486,443	-5.66%	-711,269
364.00	FLOW MEASURING DEVICES	237,618	14.19%	33,722	10.29%	24,460	-3.90%	-9,262
371.00	PUMPING EQUIPMENT	7,170,373	7.19%	515,562	4.73%	339,221	-2.46%	-176,341
380.00	TREATMENT EQUIPMENT	26,570,655	7.04%	1,871,462	4.43%	1,177,039	-2.61%	-694,423
382.00	OUTFALL SEWER LINES	73,525	12.04%	8,850	11.76%	8,648	-0.28%	-202
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT - INTANGIBLES	4,091,000	5.55%	227,204	5.02%	205,456	-0.53%	-21,748
390.00	OFFICE FURNITURE AND EQUIPMENT	280,503	5.30%	14,861	5.28%	14,819	-0.02%	-42
391.00	TRANSPORTATION EQUIPMENT	673,949	10.28%	69,289	8.27%	55,745	-2.01%	-13,544
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	683,106	5.06%	34,552	5.06%	34,544	0.00%	-8
394.00	LABORATORY EQUIPMENT	184,648	6.56%	12,106	6.57%	12,124	0.01%	18
395.00	POWER OPERATED EQUIPMENT	651,788	7.76%	50,560	5.42%	35,316	-2.34%	-15,244
396.00	COMMUNICATION EQUIPMENT	2,247,233	7.32%	164,477	7.32%	164,450	0.00%	-27
397.00	MISCELLANEOUS EQUIPMENT	122,962	7.31%	8,986	7.30%	8,979	-0.01%	-7
	Total Butler Area Sewer Authority	258,932,616	4.36%	11,299,118	2.87%	7,431,909	-1.49%	-3,867,209
	Wastewater Combined Sewer System (CSS)							
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	52,302,493	2.54%	1,327,476	2.19%	1,146,597	-0.35%	-180,879
354.30	STRUCTURES AND IMPROVEMENTS - SPP	25,842,327	2.08%	537,518	1.56%	402,938	-0.52%	-134,580
354.40	STRUCTURES AND IMPROVEMENTS - TDP	134,343,428	1.77%	2,374,439	1.42%	1,908,520	-0.35%	-465,919
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	916,528	3.79%	34,744	2.96%	27,090	-0.83%	-7,654
355.00	POWER GENERATING EQUIPMENT	4,132,797	3.73%	154,298	2.73%	112,729	-1.00%	-41,569
360.10	COLLECTION SEWERS - FORCE MAINS	19,554,789	1.53%	298,964	1.32%	258,441	-0.21%	-40,523
361.10	COLLECTION SEWERS - GRAVITY MAINS	441,638,854	1.36%	5,989,231	1.17%	5,167,690	-0.19%	-821,541
361.20	MANHOLES	47,437,035	3.13%	1,483,337	2.20%	1,044,873	-0.93%	-438,464
363.00	SERVICES	20,405,389	2.82%	574,455	2.24%	457,587	-0.58%	-116,868
364.00	FLOW MEASURING DEVICES	2,607,930	6.78%	176,827	5.35%	139,652	-1.43%	-37,175
371.00	PUMPING EQUIPMENT	20,823,241	3.87%	806,722	3.00%	624,990	-0.87%	-181,732

Detailed Rate Comparison - 2025

Account No.	Description	[1] Plant 6/30/2027	[2] PAWC Position Rate	[2] PAWC Position Annual Accrual	[3] OCA Position Rate	[3] OCA Position Annual Accrual	[4] OCA Adjustment Rate	[4] OCA Adjustment Annual Accrual
380.00	TREATMENT EQUIPMENT	103,007,636	3.13%	3,227,436	2.73%	2,812,755	-0.40%	-414,681
381.00	PLANT SEWERS	1,576,345	1.90%	29,957	1.71%	26,927	-0.19%	-3,030
382.00	OUTFALL SEWER LINES	2,024,404	2.38%	48,219	2.04%	41,328	-0.34%	-6,891
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT	10,813,551	5.48%	592,899	4.72%	510,476	-0.76%	-82,423
390.00	OFFICE FURNITURE AND EQUIPMENT	4,194,872	5.46%	228,937	5.46%	229,044	0.00%	107
391.00	TRANSPORTATION EQUIPMENT	10,874,996	6.46%	702,850	6.44%	700,252	-0.02%	-2,598
392.00	STORES EQUIPMENT	176,309	4.13%	7,284	4.12%	7,265	-0.01%	-19
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	5,677,987	4.86%	275,751	4.87%	276,453	0.01%	702
394.00	LABORATORY EQUIPMENT	3,175,548	6.55%	207,985	6.56%	208,471	0.01%	486
395.00	POWER OPERATED EQUIPMENT	2,309,684	3.83%	88,397	3.45%	79,630	-0.38%	-8,767
396.00	COMMUNICATION EQUIPMENT	3,214,063	7.29%	234,374	7.29%	234,411	0.00%	37
397.00	MISCELLANEOUS EQUIPMENT	2,898,822	6.91%	200,247	6.94%	201,036	0.03%	789
	Total Wastewater Combined Sewer System	919,949,031	2.13%	19,602,347	1.81%	16,619,156	-0.32%	-2,983,191
	Elizabeth Borough Wastewater							
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	214,034	5.10%	10,925	4.27%	9,146	-0.83%	-1,779
354.30	STRUCTURES AND IMPROVEMENTS - SPP	6,131,131	2.87%	176,191	1.91%	117,217	-0.96%	-58,974
354.40	STRUCTURES AND IMPROVEMENTS - TDP	1,561,716	3.88%	60,599	2.88%	45,016	-1.00%	-15,583
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	50,411	8.07%	4,069	6.01%	3,029	-2.06%	-1,040
355.00	POWER GENERATING EQUIPMENT	126,051	4.28%	5,395	3.12%	3,933	-1.16%	-1,462
360.10	COLLECTION SEWERS - FORCE MAINS	297,382	1.62%	4,812	1.40%	4,169	-0.22%	-643
361.10	COLLECTION SEWERS - GRAVITY MAINS	12,311,491	2.24%	276,194	1.70%	209,230	-0.54%	-66,964
361.20	MANHOLES	463,372	9.86%	45,709	3.75%	17,365	-6.11%	-28,344
363.00	SERVICES	48,000	2.50%	1,199	2.12%	1,019	-0.38%	-180
364.00	FLOW MEASURING DEVICES	466,102	16.76%	78,138	11.62%	54,172	-5.14%	-23,966
370.00	RECEIVING WELLS	181,963	2.47%	4,497	2.15%	3,913	-0.32%	-584
371.00	PUMPING EQUIPMENT	1,191,674	5.74%	68,364	3.75%	44,638	-1.99%	-23,726
380.00	TREATMENT EQUIPMENT	2,750,486	5.38%	147,926	3.32%	91,231	-2.06%	-56,695
381.00	PLANT SEWERS	1,288,883	3.26%	41,970	2.59%	33,383	-0.67%	-8,587
382.00	OUTFALL SEWER LINES	2,828	2.48%	70	2.15%	61	-0.33%	-9
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT - INTANGIBLES	11,608	8.49%	986	7.32%	850	-1.17%	-136
390.00	OFFICE FURNITURE AND EQUIPMENT	83,891	6.28%	5,265	6.28%	5,273	0.00%	8
391.00	TRANSPORTATION EQUIPMENT	47,639	23.27%	11,086	15.11%	7,200	-8.16%	-3,886
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	531,030	12.22%	64,916	12.17%	64,633	-0.05%	-283
394.00	LABORATORY EQUIPMENT	29,808	29.00%	8,643	29.54%	8,806	0.54%	163

Detailed Rate Comparison - 2025

		[1]	[2]		[3]		[4]	
			PAWC Position		OCA Position		OCA Adjustment	
Account No.	Description	Plant 6/30/2027	Rate	Annual Accrual	Rate	Annual Accrual	Rate	Annual Accrual
395.00	POWER OPERATED EQUIPMENT	1,425	14.67%	209	13.68%	195	-0.99%	-14
396.00	COMMUNICATION EQUIPMENT	218,797	8.27%	18,099	8.26%	18,074	-0.01%	-25
397.00	MISCELLANEOUS EQUIPMENT	3,500	6.80%	238	6.82%	239	0.02%	1
	Total Elizabeth Borough Wastewater	28,013,222	3.70%	1,035,500	2.65%	742,790	-1.04%	-292,710
	TOTAL PLANT STUDIED	**10,086,921,209**	**2.61%**	**263,028,483**	**2.11%**	**213,130,885**	**-0.49%**	**-49,897,598**

[1], [2] From Company depreciation study

[3] From Exhibit DJG-23

[4] = [3] - [2]

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2027	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
	Water Operations								
303.14	WATER RIGHTS - HIBERNIA	1,942,823	SQ	25	1,942,823	0			
303.35	WASTE HANDLING AND TREATMENT LAND	155,025	R3	100	134,809	20,216	66.35	305	0.20%
303.99	COMPREHENSIVE PLANNING STUDIES	16,371,260	SQ	5	13,327,260	3,044,000	2.40	1,268,334	7.75%
304.15	OTHER WATER SOURCE STRUCTURES	123,448,677	S0.5	50	19,563,527	103,885,150	42.44	2,447,812	1.98%
304.20	POWER AND PUMING STRUCTURES								
	LARGE STRUCTURES	56,902,089	S0.5	75	12,341,242	44,560,847	59.43	749,804	1.32%
	OTHER STRUCTURES	80,622,784	R3	55	12,957,946	67,664,838	40.93	1,653,184	2.05%
	TOTAL ACCOUNT 304.20	137,524,873			25,299,188	112,225,685	46.70	2,402,988	1.75%
304.30	PURIFICATION BUILDINGS								
	LARGE STRUCTURES	446,975,678	S1	55	130,945,249	316,030,429	40.64	7,776,339	1.74%
	OTHER STRUCTURES	79,818,178	R3	60	17,498,361	62,319,817	48.38	1,288,132	1.61%
	TOTAL ACCOUNT 304.30	526,793,857			148,443,610	378,350,247	41.74	9,064,471	1.72%
304.36	WASTE HANDLING AND TREATMENT STRUCTURES	28,441,582	S1	55	9,825,291	18,616,291	18.40	1,011,755	3.56%
304.38	WASTE HANDLING AND TREATMENT STRUCTURES PAINTING	1,403,439	SQ	10	875,824	527,615	4.00	131,904	9.40%
304.39	PURIFICATION BUILDINGS - TANK PAINTING	968,752	SQ	10	463,103	505,649	6.00	84,275	8.70%
304.61	OFFICE BUILDINGS								
	LARGE STRUCTURES	29,028,974	S0	55	9,917,838	19,111,136	45.37	421,228	1.45%
	OTHER OTHER STRUCTURES	15,321,845	R3	50	5,070,910	10,250,935	34.61	296,184	1.93%
	TOTAL ACCOUNT 304.61	44,350,819			14,988,748	29,362,071	40.93	717,413	1.62%
304.62	STORES, SHOP AND GARAGE BUILDINGS								
	LARGE STRUCTURES	59,397,332	S0.5	55	21,575,638	37,821,694	45.32	834,548	1.41%
	OTHER OTHER STRUCTURES	14,056,881	R3	45	4,690,258	9,366,623	34.30	273,079	1.94%
	TOTAL ACCOUNT 304.62	73,454,212			26,265,896	47,188,316	42.60	1,107,627	1.51%
304.65	MISCELLANEOUS STRUCTURES AND IMPROVEMENTS	6,231,993	S0.5	35	4,586,916	1,645,077	27.46	59,908	0.96%
305.00	COLLECTING AND IMPOUNDING RESERVOIRS								
	LARGE RESERVOIRS	180,995,576	R2	130	22,527,171	158,468,405	61.00	2,597,843	1.44%
	OTHER RESERVOIRS	11,419,519	R3	75	1,352,984	10,066,535	64.69	155,612	1.36%
	TOTAL ACCOUNT 305.00	192,415,095			23,880,155	168,534,940	61.21	2,753,455	1.43%
306.00	LAKE, RIVER AND OTHER INTAKES								
	LARGE RESERVOIRS	12,329,112	S1.5	55	5,871,850	6,457,262	28.89	223,512	1.81%
	OTHER RESERVOIRS	8,189,556	S0.5	50	2,189,022	6,000,534	37.62	159,504	1.95%
	TOTAL ACCOUNT 306.00	20,518,669			8,060,872	12,457,797	32.53	383,016	1.87%

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2027	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
307.00	WELLS AND SPRINGS	14,361,759	S0	55	5,289,150	9,072,609	39.35	230,562	1.61%
310.00	POWER GENERATION EQUIPMENT	26,827,956	S0.5	45	8,911,505	17,916,451	34.82	514,545	1.92%
	PUMPING EQUIPMENT								
311.20	ELECTRIC PUMPING EQUIPMENT	27,390,102	S0	39	7,081,155	20,308,947	32.16	631,497	2.31%
311.50	OTHER	32,503,724	S0	39	3,329,148	29,174,576	35.40	824,141	2.54%
311.52	SOURCE OF SUPPLY	11,405,625	S0	39	3,803,321	7,602,304	29.64	256,488	2.25%
311.53	WATER TREATMENT	48,154,022	S0	39	28,566,664	19,587,358	19.10	1,025,516	2.13%
311.54	TRANSMISSION AND DISTRIBUTION	9,832,787	S0	39	3,292,848	6,539,939	29.25	223,588	2.27%
	TOTAL ACCOUNT 311.00	129,286,260			46,073,136	83,213,124	28.10	2,961,229	2.29%
	PURIFICATION SYSTEM								
320.10	LARGE STRUCTURES	293,129,033	S1	50	101,452,087	191,676,946	36.48	5,254,302	1.79%
320.11	OTHER LARGE STRUCTURES	21,108,698	R3	55	5,052,491	16,056,207	38.89	412,862	1.96%
	TOTAL ACCOUNT 320.10	314,237,731			106,504,578	207,733,153	36.66	5,667,164	1.80%
	ACCOUNT 320.00								
320.18	LARGE STRUCTURES PAINT	103,246	SQ	10	103,246	0			
320.19	LARGE STRUCTURES PAINT	4,370,191	SQ	10	3,595,944	774,247	4.90	158,010	3.62%
320.20	CHEMICAL TREATMENT	167,570,515	R0.5	42	48,496,440	119,074,075	35.01	3,401,145	2.03%
320.29	CHEMICAL TREATMENT PAINT	8,168			8,168	0			
320.30	GRANULAR ACTIVATED CARBON	24,011,056	L0.5	11	12,899,016	11,112,040	7.16	1,551,961	6.46%
320.37	WASTE HANDLING AND TREATMENT - EQUIPMENT	20,634,881	R3	30	11,526,826	9,108,055	15.38	592,201	2.87%
	TOTAL ACCOUNT 320.00	216,698,056			76,629,640	140,068,416	24.56	5,703,316	2.63%
	ACCOUNT 330.00								
330.00	DISTRIBUTION RESERVOIRS AND STANDPIPES	165,939,183	S0.5	65	53,054,521	112,884,662	50.01	2,257,242	1.36%
330.10	ELEVATED TANKS AND STANDPIPES	18,098,701	S0.5	65	3,647,939	14,450,762	55.81	258,928	1.43%
330.20	GROUND LEVEL FACILITIES	19,120,765	S0.5	65	4,502,857	14,617,908	54.26	269,405	1.41%
330.30	BELOW GRADE FACILITIES	818,707	S0.5	65	226,261	592,446	52.32	11,324	1.38%
330.40	CLEARWELL	19,670,178	S0.5	65	3,983,199	15,686,979	55.40	283,158	1.44%
330.58	DISTRIBUTION RESERVOIRS AND STANDPIPES - PAINTING	2,918,574	SQ	10	2,441,720	476,854	6.70	71,172	2.44%
330.59	DISTRIBUTION RESERVOIRS AND STANDPIPES - PAINTING	53,416,355	SQ	10	35,285,415	18,130,940	5.60	3,237,668	6.06%
	TOTAL ACCOUNT 330.00	279,982,464			103,141,912	176,840,552	27.68	6,388,897	2.28%
331.00	MAINS AND ACCESSORIES	3,874,948,430	R2	90	495,097,115	3,379,851,315	76.73	44,048,629	1.14%
333.00	SERVICES	903,158,434	R2.5	65	174,275,927	728,882,507	51.57	14,133,847	1.56%
334.00	METERS AND METER INSTALLATIONS	336,237,510	L1.5	20	111,988,357	224,249,153	14.49	15,476,132	4.60%
335.00	FIRE HYDRANTS	171,565,288	R2	60	28,748,652	142,816,636	48.56	2,941,035	1.71%
340.00	OFFICE FURNITURE AND EQUIPMENT								
	FURNITURE	10,028,093	SQ	20	3,277,350	6,750,743	11.20	602,745	6.01%

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2027	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
	COMPUTERS AND PERIPHERAL EQUIPMENT	24,026,537	SQ	5	11,720,410	12,306,127	2.00	6,153,064	25.61%
	COMPUTER SOFTWARE	82,506,778	SQ	5	36,401,179	46,105,599	2.00	23,052,800	27.94%
	COMPUTER SOFTWARE - ENTERPRISE SOLUTIONS	6,584,096	SQ	10	794,836	5,789,260	8.80	657,870	9.99%
	OTHER OFFICE EQUIPMENT	37,508	SQ	10	6,252	31,256	3.80	8,225	21.93%
	TOTAL ACCOUNT 340.00	123,183,013			52,200,027	70,982,986	2.33	30,474,704	24.74%
341.00	TRANSPORATION EQUIPMENT								
	NOT CLASSIFIED	38,598	L2.5	10	12,082	26,516	7.87	3,369	8.73%
	LIGHT DUTY TRUCKS	87,782,007	L2.5	10	52,533,751	35,248,256	5.89	5,984,424	6.82%
	EQUIPMENT	15,276,635	L2.5	10	14,762,420	514,215	3.82	134,611	0.88%
	AUTOS	2,022,390	L2.5	10	2,022,390	0			
	OTHER	7,685,814	L2.5	10	7,323,470	362,344	3.92	92,435	1.20%
	TOTAL ACCOUNT 341.00	112,805,445			76,654,113	36,151,332	5.82	6,214,839	5.51%
342.00	STORES EQUIPMENT	477,134	SQ	20	191,361	285,773	9.30	30,728	6.44%
343.00	TOOLS AND WORK EQUIPMENT	89,135,730	SQ	20	23,610,554	65,525,176	14.00	4,680,370	5.25%
344.00	LABORATORY EQUIPMENT	2,409,469	SQ	20	943,085	1,466,384	8.10	181,035	7.51%
345.00	POWER OPERATED EQUIPMENT	3,091,859	S0.5	21	1,905,602	1,186,257	10.68	111,073	3.59%
346.00	COMUNICATION EQUIPMENT								
	EQUIPMENT	5,520,521	SQ	15	1,818,790	3,701,731	10.80	342,753	6.21%
	NON-TELEPHONE	16,484,383	SQ	15	4,598,270	11,886,113	10.20	1,165,305	7.07%
	REMOTE CONTROL AND INSTRUMENTATION	19,797,455	SQ	10	4,145,987	15,651,468	7.60	2,059,404	10.40%
	TELEPHONE	191,017	SQ	10	141,625	49,392	2.10	23,520	12.31%
	TOTAL ACCOUNT 346.00	41,993,377			10,704,672	31,288,705	8.71	3,590,982	8.55%
347.00	MISCELLANEOUS EQUIPMENT	27,210,868	SQ	25	7,798,107	19,412,761	16.00	1,213,298	4.46%
348.00	OTHER TANGIBLE EQUIPMENT	29,260,575	SQ	25	1,550,209	27,710,366	23.10	1,199,583	4.10%
	Total Water Operations	7,870,892,434			1,629,875,724	6,241,016,710	37.33	167,195,229	2.12%
	Wastewater Sanitary Sewer System (SSS)								
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	13,810,053	R3	45	934,282	12,875,771	40.84	315,274	2.28%
354.30	STRUCTURES AND IMPROVEMENTS - SPP	28,946,012	S0	55	8,784,976	20,161,036	42.74	471,714	1.63%
354.40	STRUCTURES AND IMPROVEMENTS - TDP	296,544,707	S0	55	109,265,549	187,279,158	33.85	5,532,619	1.87%
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	8,266,302	S1	35	2,536,679	5,729,623	28.95	197,914	2.39%
355.00	POWER GENERATION EQUIPMENT	7,137,994	S0.5	35	3,971,322	3,166,672	23.14	136,848	1.92%
360.10	COLLECTION SEWERS - FORCE MAINS	59,439,411	R3	75	5,815,631	53,623,780	62.28	861,011	1.45%
361.10	COLLECTION SEWERS - GRAVITY MAINS	259,890,456	R2.5	80	59,104,148	200,786,308	57.44	3,495,583	1.35%
361.20	MANHOLES	49,602,157	S2.5	50	16,682,889	32,919,268	27.61	1,192,295	2.40%
363.00	SERVICES	75,766,904	R3	47	25,299,717	50,467,187	28.76	1,754,770	2.32%

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2027	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
364.00	FLOW MEASURING DEVICES	724,745	L2.5	15	550,486	174,259	6.14	28,381	3.92%
365.00	FLOW MEASURING INSTALLATIONS	272,564	S2	25	272,455	109	3.33	33	0.01%
370.00	RECEIVING WELLS	677,388	R3	50	106,380	571,008	40.57	14,075	2.08%
371.00	PUMPING EQUIPMENT	20,702,725	S0.5	30	5,450,715	15,252,010	22.66	673,081	3.25%
380.00	TREATMENT EQUIPMENT	156,696,457	S1.5	35	44,775,359	111,921,098	22.69	4,932,618	3.15%
381.00	PLANT SEWERS	6,624,603	R3	50	2,147,727	4,476,876	34.08	131,364	1.98%
382.00	OUTFALL SEWER LINES	626,996	R3	50	287,404	339,592	28.96	11,726	1.87%
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT - INTANGIBLES	2,659,061	S2.5	20	793,974	1,865,087	15.09	123,598	4.65%
390.00	OFFICE FURNITURE AND EQUIPMENT	3,634,697	SQ	20	619,264	3,015,433	15.90	189,650	5.22%
391.00	TRANSPORTATION EQUIPMENT	5,081,403	L4	14	2,120,697	2,960,706	8.29	357,142	7.03%
392.00	STORES EQUIPMENT	107,351	SQ	25	51,429	55,922	12.70	4,403	4.10%
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	1,873,739	SQ	20	495,501	1,378,238	13.70	100,601	5.37%
394.00	LABORATORY EQUIPMENT	932,413	SQ	15	318,763	613,650	6.70	91,590	9.82%
395.00	POWER OPERATED EQUIPMENT	427,100	R2	22	310,008	117,092	10.96	10,684	2.50%
396.00	COMMUNICATION EQUIPMENT	4,276,685	SQ	15	1,510,608	2,766,077	9.10	303,964	7.11%
397.00	MISCELLANEOUS EQUIPMENT	1,896,881	SQ	15	748,123	1,148,758	10.20	112,623	5.94%
398.00	OTHER TANGIBLE PLANT	2,515,100	SQ	25	157,340	2,357,760	24.00	98,240	3.91%
	Total Wastewater Sanitary Sewer System	1,009,133,906			293,111,426	716,022,480	33.87	21,141,801	2.10%
	Butler Area Sewer Authority (BASA)								
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	23,381,312	R3	43	337,687	23,043,625	42.74	539,158	2.31%
354.30	STRUCTURES AND IMPROVEMENTS - SPP	36,968,125	S0	55	2,815,471	34,152,654	41.79	817,245	2.21%
354.40	STRUCTURES AND IMPROVEMENTS - TDP	17,268,436	S0	55	1,535,068	15,733,368	27.62	569,637	3.30%
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	8,298,055	S1	35	879,612	7,418,443	42.27	175,501	2.11%
355.00	POWER GENERATING EQUIPMENT	1,312,066	S0.5	35	164,731	1,147,335	21.81	52,606	4.01%
360.10	COLLECTION SEWERS - FORCE MAINS	8,441,561	R3	75	351,848	8,089,713	46.76	173,005	2.05%
361.10	COLLECTION SEWERS - GRAVITY MAINS	95,428,998	R2.5	80	6,325,640	89,103,358	44.34	2,009,548	2.11%
361.20	MANHOLES	12,276,905	S2.5	50	2,551,770	9,725,135	18.42	527,966	4.30%
363.00	SERVICES	12,569,796	R3	47	2,845,798	9,723,998	19.99	486,443	3.87%
364.00	FLOW MEASURING DEVICES	237,618	L2.5	15	138,556	99,062	4.05	24,460	10.29%
371.00	PUMPING EQUIPMENT	7,170,373	S0.5	30	1,244,178	5,926,195	17.47	339,221	4.73%
380.00	TREATMENT EQUIPMENT	26,570,655	S1.5	35	4,501,179	22,069,476	18.75	1,177,039	4.43%
382.00	OUTFALL SEWER LINES	73,525	R3	50	24,233	49,292	5.70	8,648	11.76%
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT - INTANGIBLES	4,091,000	S2.5	20	49,673	4,041,327	19.67	205,456	5.02%
390.00	OFFICE FURNITURE AND EQUIPMENT	280,503	SQ	20	33,029	247,474	16.70	14,819	5.28%
391.00	TRANSPORTATION EQUIPMENT	673,949	L4	14	209,590	464,359	8.33	55,745	8.27%
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	683,106	SQ	20	30,232	652,874	18.90	34,544	5.06%
394.00	LABORATORY EQUIPMENT	184,648	SQ	20	8,852	175,796	14.50	12,124	6.57%
395.00	POWER OPERATED EQUIPMENT	651,788	R2	22	144,657	507,131	14.36	35,316	5.42%
396.00	COMMUNICATION EQUIPMENT	2,247,233	SQ	15	142,276	2,104,957	12.80	164,450	7.32%

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2027	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
397.00	MISCELLANEOUS EQUIPMENT	122,962	SQ	15	5,339	117,623	13.10	8,979	7.30%
	Total Butler Area Sewer Authority	258,932,616			24,339,419	234,593,197	31.57	7,431,909	2.87%
	Wastewater Combined Sewer System (CSS)								
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	52,302,493	R3	45	4,466,454	47,836,039	41.72	1,146,597	2.19%
354.30	STRUCTURES AND IMPROVEMENTS - SPP	25,842,327	S0	55	9,108,324	16,734,003	41.53	402,938	1.56%
354.40	STRUCTURES AND IMPROVEMENTS - TDP	134,343,428	S0	55	63,499,153	70,844,275	37.12	1,908,520	1.42%
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	916,528	S1	35	6,569	909,959	33.59	27,090	2.96%
355.00	POWER GENERATING EQUIPMENT	4,132,797	S0.5	35	704,712	3,428,085	30.41	112,729	2.73%
360.10	COLLECTION SEWERS - FORCE MAINS	19,554,789	R3	75	1,616,379	17,938,410	69.41	258,441	1.32%
361.10	COLLECTION SEWERS - GRAVITY MAINS	441,638,854	R2.5	80	168,216,360	273,422,494	52.91	5,167,690	1.17%
361.20	MANHOLES	47,437,035	S2.5	50	19,747,906	27,689,129	26.50	1,044,873	2.20%
363.00	SERVICES	20,405,389	R3	47	6,032,582	14,372,807	31.41	457,587	2.24%
364.00	FLOW MEASURING DEVICES	2,607,930	L2.5	15	1,486,522	1,121,408	8.03	139,652	5.35%
371.00	PUMPING EQUIPMENT	20,823,241	S0.5	30	6,960,958	13,862,283	22.18	624,990	3.00%
380.00	TREATMENT EQUIPMENT	103,007,636	S1.5	35	37,386,065	65,621,571	23.33	2,812,755	2.73%
381.00	PLANT SEWERS	1,576,345	R3	50	924,718	651,627	24.20	26,927	1.71%
382.00	OUTFALL SEWER LINES	2,024,404	R3	50	40,235	1,984,169	48.01	41,328	2.04%
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT	10,813,551	S2.5	20	5,050,279	5,763,272	11.29	510,476	4.72%
390.00	OFFICE FURNITURE AND EQUIPMENT	4,194,872	SQ	20	1,171,495	3,023,377	13.20	229,044	5.46%
391.00	TRANSPORTATION EQUIPMENT	10,874,996	L4	14	6,015,248	4,859,748	6.94	700,252	6.44%
392.00	STORES EQUIPMENT	176,309	SQ	25	37,539	138,770	19.10	7,265	4.12%
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	5,677,987	SQ	20	1,448,258	4,229,729	15.30	276,453	4.87%
394.00	LABORATORY EQUIPMENT	3,175,548	SQ	15	507,125	2,668,423	12.80	208,471	6.56%
395.00	POWER OPERATED EQUIPMENT	2,309,684	R2	22	1,280,867	1,028,817	12.92	79,630	3.45%
396.00	COMMUNICATION EQUIPMENT	3,214,063	SQ	15	1,573,184	1,640,879	7.00	234,411	7.29%
397.00	MISCELLANEOUS EQUIPMENT	2,898,822	SQ	15	1,210,118	1,688,704	8.40	201,036	6.94%
	Total Wastewater Combined Sewer System	919,949,031			338,491,050	581,457,981	34.99	16,619,156	1.81%
	Elizabeth Borough Wastewater								
354.20	STRUCTURES AND IMPROVEMENTS - COLLECTION	214,034	R3	45	10,816	203,218	22.22	9,146	4.27%
354.30	STRUCTURES AND IMPROVEMENTS - SPP	6,131,131	S0	55	209,345	5,921,786	50.52	117,217	1.91%
354.40	STRUCTURES AND IMPROVEMENTS - TDP	1,561,716	S0	55	69,883	1,491,833	33.14	45,016	2.88%
354.70	STRUCTURES AND IMPROVEMENTS - GENERAL	50,411	S1	35	3,918	46,493	15.35	3,029	6.01%
355.00	POWER GENERATING EQUIPMENT	126,051	S0.5	35	6,433	119,618	30.41	3,933	3.12%
360.10	COLLECTION SEWERS - FORCE MAINS	297,382	R3	75	4,486	292,896	70.26	4,169	1.40%
361.10	COLLECTION SEWERS - GRAVITY MAINS	12,311,491	R2.5	80	312,137	11,999,354	57.35	209,230	1.70%

Depreciation Rate Development - 2025

Account No.	Description	[1] Plant 6/30/2027	[2] Iowa Curve Type	[2] Iowa Curve AL	[3] Book Reserve	[4] Future Accruals	[5] Remaining Life	[6] Total Accrual	[7] Total Rate
361.20	MANHOLES	463,372	S2.5	50	57,020	406,352	23.40	17,365	3.75%
363.00	SERVICES	48,000	R3	47	821	47,179	46.29	1,019	2.12%
364.00	FLOW MEASURING DEVICES	466,102	L2.5	15	102,065	364,037	6.72	54,172	11.62%
370.00	RECEIVING WELLS	181,963	R3	50	5,458	176,505	45.11	3,913	2.15%
371.00	PUMPING EQUIPMENT	1,191,674	S0.5	30	82,426	1,109,248	24.85	44,638	3.75%
380.00	TREATMENT EQUIPMENT	2,750,486	S1.5	35	151,325	2,599,161	28.49	91,231	3.32%
381.00	PLANT SEWERS	1,288,883	R3	50	49,369	1,239,514	37.13	33,383	2.59%
382.00	OUTFALL SEWER LINES	2,828	R3	50	86	2,742	45.11	61	2.15%
389.10	OTHER PLANT AND MISCELLANEOUS EQUIPMENT - INTANGIBLES	11,608	S2.5	20	1,141	10,467	12.32	850	7.32%
390.00	OFFICE FURNITURE AND EQUIPMENT	83,891	SQ	20	3,749	80,142	15.20	5,273	6.28%
391.00	TRANSPORTATION EQUIPMENT	47,639	L4	14	16,393	31,246	4.34	7,200	15.11%
393.00	TOOLS, SHOP AND GARAGE EQUIPMENT	531,030	SQ	20	59,208	471,822	7.30	64,633	12.17%
394.00	LABORATORY EQUIPMENT	29,808	SQ	15	6,912	22,896	2.60	8,806	29.54%
395.00	POWER OPERATED EQUIPMENT	1,425	R2	22	1,216	209	1.07	195	13.68%
396.00	COMMUNICATION EQUIPMENT	218,797	SQ	15	18,174	200,623	11.10	18,074	8.26%
397.00	MISCELLANEOUS EQUIPMENT	3,500	SQ	15	111	3,389	14.20	239	6.82%
	Total Elizabeth Borough Wastewater	28,013,222			1,172,492	26,840,730	36.14	742,790	2.65%
	TOTAL PLANT STUDIED	**10,086,921,209**			**2,286,990,111**	**7,799,931,098**	**36.60**	**213,130,885**	**2.11%**

[1], [3] From Company depreciation study

[2] Average life and Iowa curve shape developed through actuarial analysis and professional judgment

[4] = [1] - [3]

[5] Composite remaining life based on Iowa cuve in [2]; see remaining life exhibit for detailed calculations

[6] = [4] / [5]; (some unadjusted figures may be hard coded to match Company proposal)

[7] = [6] / [1]; (some unadjusted figures may hard coded to match Company proposal)

PAWC - Water Operations
Water Operations
303.35 Waste Handling

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *100* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1991	70,430.00	100.00	704.30	67.66	47,652.79
1992	84,595.17	100.00	845.95	68.56	58,000.73
Total	155,025.17	100.00	1,550.25	68.15	105,653.51

Composite Average Remaining Life ... 68.15 Years

PAWC - Water Operations
Water Operations
304.15 Other Water Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1905	20,000.00	0.00	0.00	0.00	0.00
1962	3,046.99	50.00	60.94	12.82	781.05
1965	40,502.68	50.00	810.05	13.95	11,299.22
1966	20,825.96	50.00	416.52	14.33	5,969.90
1967	270.30	50.00	5.41	14.72	79.58
1968	13,568.76	50.00	271.37	15.11	4,101.01
1969	631.00	50.00	12.62	15.51	195.70
1970	1,609.62	50.00	32.19	15.91	512.07
1971	11,357.68	50.00	227.15	16.31	3,704.88
1972	19,891.30	50.00	397.83	16.72	6,650.75
1973	102.13	50.00	2.04	17.13	34.99
1974	11,058.14	50.00	221.16	17.55	3,880.66
1975	3,360.08	50.00	67.20	17.97	1,207.48
1977	2,198.00	50.00	43.96	18.83	827.58
1978	1,550.08	50.00	31.00	19.26	597.16
1979	66,916.71	50.00	1,338.33	19.70	26,370.89
1980	50,476.77	50.00	1,009.53	20.15	20,343.91
1981	175,270.37	50.00	3,505.40	20.60	72,228.79
1982	5,146.13	50.00	102.92	21.06	2,167.97
1983	23,321.00	50.00	466.42	21.53	10,041.69
1984	402.00	50.00	8.04	22.00	176.89
1985	61,463.99	50.00	1,229.28	22.48	27,632.68
1986	65,149.35	50.00	1,302.99	22.96	29,921.05
1987	194.55	50.00	3.89	23.46	91.26
1988	5,314.89	50.00	106.30	23.95	2,546.22
1989	105,571.50	50.00	2,111.43	24.46	51,644.98
1990	167,225.90	50.00	3,344.51	24.97	83,523.71

PAWC - Water Operations
Water Operations
304.15 Other Water Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1991	515,689.12	50.00	10,313.77	25.49	262,946.97
1992	303,462.34	50.00	6,069.24	26.02	157,947.14
1993	140,489.27	50.00	2,809.78	26.56	74,633.30
1994	1,280,944.74	50.00	25,618.87	27.11	694,482.75
1995	208,091.31	50.00	4,161.82	27.66	115,130.04
1996	365,775.62	50.00	7,315.50	28.23	206,499.02
1997	26,226.70	50.00	524.53	28.80	15,107.17
1998	254,653.48	50.00	5,093.06	29.38	149,656.51
1999	142,608.54	50.00	2,852.17	29.98	85,500.97
2000	129,853.55	50.00	2,597.07	30.58	79,420.77
2001	1,161.48	50.00	23.23	31.19	724.64
2002	707,111.64	50.00	14,142.22	31.82	450,000.74
2003	1,932,009.71	50.00	38,640.15	32.46	1,254,090.95
2004	254,159.61	50.00	5,083.19	33.10	168,269.29
2005	974,587.19	50.00	19,491.72	33.76	658,087.64
2006	499,272.53	50.00	9,985.44	34.43	343,837.38
2007	1,551,026.95	50.00	31,020.51	35.12	1,089,373.52
2008	1,232,651.52	50.00	24,653.00	35.81	882,939.61
2009	228,603.44	50.00	4,572.06	36.52	166,993.34
2010	11,303,442.33	50.00	226,068.61	37.25	8,420,675.39
2011	250,029.38	50.00	5,000.58	37.99	189,951.31
2012	328,899.24	50.00	6,577.98	38.74	254,815.37
2013	2,948,687.90	50.00	58,973.70	39.50	2,329,702.51
2014	1,358,349.72	50.00	27,166.97	40.29	1,094,436.55
2015	863,430.65	50.00	17,268.59	41.08	709,435.68
2016	1,876,787.12	50.00	37,535.70	41.90	1,572,560.18
2017	1,914,619.65	50.00	38,292.35	42.72	1,635,995.79

PAWC - Water Operations
Water Operations
304.15 Other Water Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2018	17,474,447.65	50.00	349,488.58	43.57	15,226,919.46
2019	3,311,981.47	50.00	66,239.56	44.43	2,943,118.95
2020	5,258,970.84	50.00	105,179.30	45.31	4,765,797.21
2021	5,208,379.09	50.00	104,167.47	46.21	4,813,459.47
2022	14,305,441.54	50.00	286,108.53	47.13	13,482,912.35
2023	22,362,828.43	50.00	447,256.09	48.06	21,495,584.73
2024	12,035,825.08	50.00	240,716.24	49.02	11,799,420.57
2025	11,014,913.92	50.00	220,298.04	49.75	10,959,591.54
Total	123,441,838.63	49.19	2,468,434.14	44.12	108,916,550.87

Composite Average Remaining Life ... 44.12 Years

PAWC - Water Operations
Water Operations
304.21 Pumping Structures - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1962	15,878.73	75.00	211.72	32.29	6,836.72
1970	6,710.06	75.00	89.47	36.18	3,237.02
1990	1,277,952.17	75.00	17,039.37	47.41	807,889.37
1993	1,121,355.16	75.00	14,951.41	49.33	737,505.80
1994	88,730.90	75.00	1,183.08	49.98	59,132.75
1995	1,715,454.62	75.00	22,872.74	50.64	1,158,338.80
1997	4,494,042.69	75.00	59,920.59	51.99	3,115,306.19
1998	79,054.11	75.00	1,054.06	52.68	55,523.43
1999	4,650,691.72	75.00	62,009.25	53.37	3,309,392.78
2001	34,327.61	75.00	457.70	54.79	25,075.83
2003	2,358,291.93	75.00	31,443.90	56.24	1,768,374.18
2004	146,294.31	75.00	1,950.59	56.98	111,141.14
2005	11,236.00	75.00	149.81	57.73	8,648.15
2006	10,710.36	75.00	142.80	58.49	8,352.29
2007	29,310.29	75.00	390.80	59.26	23,157.34
2008	97,884.43	75.00	1,305.13	60.03	78,350.76
2012	23,869,584.52	75.00	318,261.25	63.25	20,131,511.88
2013	8,780,477.29	75.00	117,073.08	64.09	7,502,674.64
2014	3,788,366.02	75.00	50,511.57	64.93	3,279,531.49
2015	114,587.76	75.00	1,527.84	65.78	100,505.02
2017	3,006.40	75.00	40.09	67.52	2,706.65
2018	8,073.07	75.00	107.64	68.41	7,364.06
2019	130,266.72	75.00	1,736.89	69.31	120,389.23
2021	4,068,632.96	75.00	54,248.46	71.15	3,859,945.23
2023	1,168.86	75.00	15.58	73.04	1,138.36

PAWC - Water Operations
Water Operations
304.21 Pumping Structures - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	56,902,088.69	75.00	758,694.81	61.00	46,282,029.11

Composite Average Remaining Life ... 61.00 Years

PAWC - Water Operations
Water Operations
304.22 Pumping Structures - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1901	7,495.63	0.00	0.00	0.00	0.00
1904	2,021.00	0.00	0.00	0.00	0.00
1905	5,507.85	0.00	0.00	0.00	0.00
1906	6,449.72	0.00	0.00	0.00	0.00
1908	7,657.66	0.00	0.00	0.00	0.00
1909	8,663.76	0.00	0.00	0.00	0.00
1910	13,836.00	0.00	0.00	0.00	0.00
1911	16,065.00	0.00	0.00	0.00	0.00
1912	1,348.87	0.00	0.00	0.00	0.00
1915	1,154.25	0.00	0.00	0.00	0.00
1918	33,974.06	0.00	0.00	0.00	0.00
1919	3,620.00	0.00	0.00	0.00	0.00
1920	5,563.30	0.00	0.00	0.00	0.00
1921	645.00	0.00	0.00	0.00	0.00
1922	11,541.92	0.00	0.00	0.00	0.00
1923	8,106.40	0.00	0.00	0.00	0.00
1924	35,623.67	0.00	0.00	0.00	0.00
1925	154.00	0.00	0.00	0.00	0.00
1926	525.00	0.00	0.00	0.00	0.00
1927	927.19	0.00	0.00	0.00	0.00
1928	3,768.38	0.00	0.00	0.00	0.00
1929	13,600.23	0.00	0.00	0.00	0.00
1930	4,309.44	0.00	0.00	0.00	0.00
1931	8,059.98	0.00	0.00	0.00	0.00
1932	4,338.00	0.00	0.00	0.00	0.00
1933	32.82	55.00	0.60	0.50	0.30
1934	216.34	55.00	3.93	0.62	2.46

PAWC - Water Operations
Water Operations
304.22 Pumping Structures - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1935	2,295.77	55.00	41.74	0.84	35.01
1936	1,269.17	55.00	23.08	1.00	23.07
1937	979.72	55.00	17.81	1.21	21.59
1938	3,229.30	55.00	58.71	1.44	84.62
1939	3,064.46	55.00	55.72	1.68	93.55
1940	267.00	55.00	4.85	1.94	9.43
1941	443.03	55.00	8.06	2.17	17.49
1942	4,109.17	55.00	74.71	2.41	180.24
1943	68.00	55.00	1.24	2.66	3.29
1944	653.45	55.00	11.88	2.91	34.63
1945	1,436.76	55.00	26.12	3.17	82.83
1946	473.00	55.00	8.60	3.44	29.57
1947	10,135.29	55.00	184.28	3.69	679.84
1948	71,909.00	55.00	1,307.44	3.94	5,154.91
1949	2,239.14	55.00	40.71	4.20	170.91
1950	515.26	55.00	9.37	4.45	41.73
1951	30,741.27	55.00	558.93	4.72	2,639.37
1952	12,157.42	55.00	221.04	4.98	1,099.97
1953	29,291.37	55.00	532.57	5.23	2,787.64
1954	153,376.90	55.00	2,788.67	5.50	15,329.34
1955	124,349.68	55.00	2,260.90	5.77	13,034.33
1956	27,347.64	55.00	497.23	6.04	3,003.04
1957	16,237.49	55.00	295.23	6.33	1,867.46
1958	14,583.18	55.00	265.15	6.61	1,753.35
1959	28,616.52	55.00	520.30	6.91	3,595.52
1960	21,287.75	55.00	387.05	7.22	2,794.36
1961	78,692.88	55.00	1,430.78	7.54	10,789.55

PAWC - Water Operations
Water Operations
304.22 Pumping Structures - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1962	774.72	55.00	14.09	7.88	110.96
1963	50,167.56	55.00	912.14	8.22	7,501.51
1964	387,401.33	55.00	7,043.66	8.59	60,477.48
1965	28,778.30	55.00	523.24	8.96	4,690.18
1966	68,818.27	55.00	1,251.24	9.36	11,708.25
1967	98,613.64	55.00	1,792.97	9.77	17,512.55
1968	21,839.15	55.00	397.08	10.19	4,047.39
1969	116,318.91	55.00	2,114.89	10.64	22,496.08
1970	46,047.59	55.00	837.23	11.10	9,291.81
1971	130,043.91	55.00	2,364.43	11.58	27,372.79
1972	104,004.21	55.00	1,890.99	12.07	22,829.33
1973	59,333.63	55.00	1,078.79	12.58	13,574.69
1974	125,142.06	55.00	2,275.31	13.11	29,838.90
1975	103,900.94	55.00	1,889.11	13.66	25,808.93
1976	48,590.64	55.00	883.47	14.23	12,568.32
1977	31,807.09	55.00	578.31	14.81	8,562.70
1978	91,500.15	55.00	1,663.64	15.40	25,623.90
1979	62,666.43	55.00	1,139.39	16.01	18,243.10
1980	120,802.83	55.00	2,196.41	16.64	36,545.19
1981	249,656.08	55.00	4,539.20	17.28	78,437.89
1982	214,679.67	55.00	3,903.27	17.94	70,006.93
1983	147,737.26	55.00	2,686.13	18.60	49,973.33
1984	132,167.58	55.00	2,403.05	19.28	46,338.70
1985	954,829.05	55.00	17,360.53	19.98	346,839.99
1986	214,775.45	55.00	3,905.01	20.69	80,778.91
1987	1,121,402.24	55.00	20,389.13	21.40	436,427.35
1988	356,067.30	55.00	6,473.95	22.14	143,301.47

PAWC - Water Operations
Water Operations
304.22 Pumping Structures - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1989	819,193.14	55.00	14,894.42	22.88	340,727.99
1990	1,932,384.78	55.00	35,134.26	23.63	830,091.86
1991	295,229.26	55.00	5,367.80	24.39	130,917.54
1992	1,853,412.02	55.00	33,698.39	25.16	847,938.50
1993	1,466,994.16	55.00	26,672.62	25.95	692,036.58
1994	244,001.25	55.00	4,436.39	26.74	118,621.08
1995	638,516.37	55.00	11,609.39	27.54	319,704.48
1996	979,400.05	55.00	17,807.27	28.35	504,848.17
1997	747,006.85	55.00	13,581.94	29.17	396,211.46
1998	625,815.51	55.00	11,378.46	30.00	341,377.32
1999	662,058.64	55.00	12,037.43	30.84	371,245.10
2000	1,708,892.51	55.00	31,070.77	31.69	984,579.24
2001	795,715.62	55.00	14,467.55	32.54	470,814.59
2002	225,944.33	55.00	4,108.08	33.41	137,240.32
2003	3,788,269.88	55.00	68,877.62	34.28	2,361,125.24
2004	336,569.81	55.00	6,119.45	35.16	215,161.85
2005	304,512.31	55.00	5,536.59	36.05	199,583.87
2006	3,483,159.23	55.00	63,330.16	36.94	2,339,546.72
2007	3,820,285.09	55.00	69,459.72	37.84	2,628,697.52
2008	1,101,192.65	55.00	20,021.68	38.75	775,931.42
2009	18,926.38	55.00	344.12	39.67	13,651.33
2010	215,319.67	55.00	3,914.90	40.59	158,918.40
2011	497,902.13	55.00	9,052.76	41.52	375,885.90
2012	574,544.31	55.00	10,446.26	42.46	443,497.35
2013	3,317,995.39	55.00	60,327.18	43.40	2,617,913.44
2014	1,855,236.86	55.00	33,731.57	44.34	1,495,675.24
2015	816,469.16	55.00	14,844.89	45.29	672,334.35

PAWC - Water Operations
Water Operations
304.22 Pumping Structures - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2016	3,078,007.17	55.00	55,963.76	46.25	2,588,061.45
2017	596,714.50	55.00	10,849.35	47.20	512,128.88
2018	2,925,998.53	55.00	53,199.96	48.17	2,562,481.56
2019	142,324.04	55.00	2,587.71	49.13	127,144.57
2020	2,322,863.69	55.00	42,233.88	50.10	2,116,108.05
2021	6,089,981.76	55.00	110,726.92	51.08	5,655,731.79
2022	783,173.17	55.00	14,239.51	52.05	741,235.20
2023	9,743,196.29	55.00	177,148.99	53.03	9,394,889.16
2024	2,909,170.42	55.00	52,894.00	54.02	2,857,112.36
2025	11,346,449.60	55.00	206,299.05	54.75	11,295,671.42
Total	78,995,667.61	43.35	1,432,558.14	42.10	60,311,109.32

Composite Average Remaining Life ... 42.10 Years

PAWC - Water Operations
Water Operations
304.31 Purification Buildings - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1900	690.28	0.00	0.00	0.00	0.00
1906	871.05	0.00	0.00	0.00	0.00
1910	955.96	0.00	0.00	0.00	0.00
1921	7,550.49	55.00	137.28	1.62	222.04
1924	65,855.77	55.00	1,197.38	2.44	2,923.66
1928	713.20	55.00	12.97	3.53	45.81
1930	44.14	55.00	0.80	4.10	3.29
1938	1,127.93	55.00	20.51	6.44	132.00
1951	429.84	55.00	7.82	10.57	82.62
1953	7,347.67	55.00	133.59	11.25	1,502.85
1954	63,503.27	55.00	1,154.60	11.59	13,386.34
1955	11,789.91	55.00	214.36	11.94	2,559.92
1958	1,894.04	55.00	34.44	13.01	448.02
1960	45.00	55.00	0.82	13.74	11.24
1961	26,097.98	55.00	474.51	14.11	6,695.82
1962	893.00	55.00	16.24	14.49	235.23
1963	541.00	55.00	9.84	14.87	146.24
1964	398.22	55.00	7.24	15.25	110.43
1965	321.42	55.00	5.84	15.64	91.40
1966	438.31	55.00	7.97	16.03	127.78
1967	22,777.88	55.00	414.14	16.43	6,805.48
1969	89,590.44	55.00	1,628.92	17.25	28,091.20
1970	358.00	55.00	6.51	17.66	114.95
1972	2,625.00	55.00	47.73	18.50	883.17
1973	6,492,918.63	55.00	118,053.07	18.94	2,235,385.10
1975	69,470.87	55.00	1,263.11	19.82	25,029.73
1976	3,042,618.84	55.00	55,320.35	20.27	1,121,109.48

PAWC - Water Operations
Water Operations
304.31 Purification Buildings - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1977	49,822.29	55.00	905.86	20.72	18,771.30
1978	89.00	55.00	1.62	21.19	34.28
1979	16,962.81	55.00	308.41	21.65	6,678.55
1980	10,568.86	55.00	192.16	22.13	4,252.87
1981	5,396.00	55.00	98.11	22.62	2,218.88
1982	364.13	55.00	6.62	23.11	152.99
1983	56,269.13	55.00	1,023.08	23.61	24,153.64
1984	44,668.70	55.00	812.16	24.12	19,585.83
1985	129,729.26	55.00	2,358.71	24.63	58,101.20
1986	56,314.64	55.00	1,023.90	25.16	25,759.24
1987	44,970.19	55.00	817.64	25.69	21,006.80
1988	6,104,219.17	55.00	110,985.81	26.24	2,911,725.96
1989	354,686.26	55.00	6,448.84	26.79	172,748.50
1990	18,290,076.26	55.00	332,546.86	27.35	9,094,552.85
1991	463,554.17	55.00	8,428.26	27.92	235,322.13
1992	10,159,569.23	55.00	184,719.45	28.50	5,265,092.95
1993	17,607,220.02	55.00	320,131.29	29.10	9,314,595.24
1994	594,840.73	55.00	10,815.29	29.70	321,212.57
1995	4,351,649.57	55.00	79,120.91	30.31	2,398,362.02
1996	404,065.68	55.00	7,346.65	30.94	227,301.05
1997	5,491,313.41	55.00	99,842.07	31.58	3,152,797.15
1998	141,383.91	55.00	2,570.62	32.23	82,846.36
1999	5,186,983.45	55.00	94,308.80	32.89	3,101,891.05
2000	2,176,079.42	55.00	39,565.08	33.57	1,328,038.09
2001	5,907,281.20	55.00	107,405.12	34.25	3,678,845.99
2002	747,232.76	55.00	13,586.05	34.95	474,887.92
2003	10,628,764.78	55.00	193,250.28	35.67	6,893,148.62

PAWC - Water Operations
Water Operations
304.31 Purification Buildings - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2004	1,370,640.88	55.00	24,920.74	36.40	907,082.91
2005	1,140,834.01	55.00	20,742.44	37.14	770,412.39
2006	16,569,424.04	55.00	301,262.28	37.90	11,416,865.76
2007	3,791,727.93	55.00	68,940.51	38.67	2,665,902.41
2008	1,026,287.09	55.00	18,659.77	39.46	736,260.01
2009	444,258.49	55.00	8,077.43	40.26	325,192.29
2010	4,979,255.16	55.00	90,531.92	41.08	3,718,746.42
2011	13,669,205.90	55.00	248,531.03	41.91	10,415,667.20
2012	49,857,456.27	55.00	906,499.27	42.75	38,756,796.70
2013	928,710.06	55.00	16,885.64	43.62	736,514.72
2014	2,458,636.81	55.00	44,702.49	44.50	1,989,091.30
2015	358,314.93	55.00	6,514.82	45.39	295,703.18
2016	1,590,034.14	55.00	28,909.71	46.30	1,338,430.48
2017	8,295,819.15	55.00	150,833.09	47.22	7,121,810.46
2018	38,883,963.65	55.00	706,981.20	48.15	34,043,049.70
2019	1,205,816.73	55.00	21,923.94	49.10	1,076,502.44
2020	258,862.35	55.00	4,706.59	50.06	235,624.10
2021	25,683,079.01	55.00	466,965.10	51.03	23,831,296.20
2022	23,084,001.30	55.00	419,709.14	52.02	21,831,521.18
2023	43,121,902.06	55.00	784,034.64	53.00	41,557,384.34
2024	4,423,762.65	55.00	80,432.05	54.00	4,343,377.73
2025	17,278,601.32	55.00	314,156.41	54.75	17,200,081.83
Total	359,356,537.10	52.83	6,533,709.89	42.49	277,593,541.57

Composite Average Remaining Life ... 42.49 Years

PAWC - Water Operations
Water Operations
304.32 Purification Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 60 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1901	56.00	0.00	0.00	0.00	0.00
1902	159.81	0.00	0.00	0.00	0.00
1903	1,923.01	0.00	0.00	0.00	0.00
1906	3,057.68	0.00	0.00	0.00	0.00
1908	527.18	0.00	0.00	0.00	0.00
1909	402.93	0.00	0.00	0.00	0.00
1912	225.80	0.00	0.00	0.00	0.00
1914	167.07	0.00	0.00	0.00	0.00
1915	41.89	0.00	0.00	0.00	0.00
1917	4.78	0.00	0.00	0.00	0.00
1918	0.15	0.00	0.00	0.00	0.00
1923	439.53	0.00	0.00	0.00	0.00
1924	2,693.29	60.00	44.89	0.50	22.44
1928	1,064.43	60.00	17.74	1.13	20.00
1929	3,035.89	60.00	50.60	1.32	66.55
1930	31.26	60.00	0.52	1.54	0.80
1931	1,166.36	60.00	19.44	1.80	35.04
1934	244.88	60.00	4.08	2.53	10.32
1935	341.69	60.00	5.69	2.77	15.75
1937	627.00	60.00	10.45	3.28	34.30
1940	50.89	60.00	0.85	4.05	3.43
1941	13.00	60.00	0.22	4.30	0.93
1943	134.03	60.00	2.23	4.82	10.76
1944	207.93	60.00	3.47	5.07	17.57
1946	1.00	60.00	0.02	5.59	0.09
1947	0.28	60.00	0.00	5.85	0.03
1948	131.33	60.00	2.19	6.12	13.39

PAWC - Water Operations
Water Operations
304.32 Purification Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 60 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1949	1,164.45	60.00	19.41	6.39	124.06
1951	4,026.00	60.00	67.10	6.95	466.08
1952	442.51	60.00	7.38	7.24	53.40
1953	1,371.29	60.00	22.85	7.54	172.27
1954	706.13	60.00	11.77	7.85	92.34
1955	51.47	60.00	0.86	8.17	7.01
1956	47.17	60.00	0.79	8.50	6.68
1957	259.31	60.00	4.32	8.84	38.21
1958	674.84	60.00	11.25	9.20	103.47
1959	61.56	60.00	1.03	9.57	9.82
1960	21.49	60.00	0.36	9.95	3.57
1961	36.31	60.00	0.61	10.35	6.27
1962	405.68	60.00	6.76	10.77	72.81
1963	625.74	60.00	10.43	11.20	116.80
1964	183.99	60.00	3.07	11.64	35.71
1965	157.93	60.00	2.63	12.11	31.87
1966	432.12	60.00	7.20	12.58	90.64
1967	17.71	60.00	0.30	13.08	3.86
1968	19.47	60.00	0.32	13.59	4.41
1969	7,506.96	60.00	125.12	14.11	1,765.75
1970	152.63	60.00	2.54	14.65	37.27
1971	1,784.71	60.00	29.75	15.21	452.39
1972	1,046,366.17	60.00	17,439.43	15.78	275,210.32
1973	9,030.70	60.00	150.51	16.36	2,463.06
1974	7,994.75	60.00	133.25	16.97	2,260.73
1975	215,408.78	60.00	3,590.15	17.58	63,121.26
1976	37,697.06	60.00	628.28	18.21	11,439.64

PAWC - Water Operations
Water Operations
304.32 Purification Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *60* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1977	1,299.05	60.00	21.65	18.85	408.13
1978	2,737.66	60.00	45.63	19.51	890.01
1979	2,786.10	60.00	46.43	20.17	936.62
1980	409.67	60.00	6.83	20.85	142.37
1981	23,726.70	60.00	395.44	21.54	8,518.83
1982	388,484.47	60.00	6,474.74	22.24	144,014.18
1983	82,464.64	60.00	1,374.41	22.96	31,552.21
1984	17,809.53	60.00	296.83	23.68	7,029.21
1985	424,251.01	60.00	7,070.85	24.41	172,624.65
1986	9,125.87	60.00	152.10	25.16	3,826.64
1987	23,170.52	60.00	386.18	25.91	10,007.24
1988	994,335.20	60.00	16,572.25	26.68	442,076.75
1989	2,307,355.62	60.00	38,455.92	27.45	1,055,614.09
1990	923,116.86	60.00	15,385.28	28.23	434,369.18
1991	1,052,757.51	60.00	17,545.96	29.02	509,227.21
1992	3,019.59	60.00	50.33	29.82	1,500.92
1993	1,237.70	60.00	20.63	30.63	631.91
1994	917,292.30	60.00	15,288.20	31.45	480,795.40
1995	1,316,634.36	60.00	21,943.90	32.28	708,249.04
1996	349,220.20	60.00	5,820.34	33.11	192,709.87
1997	1,604,277.59	60.00	26,737.95	33.95	907,762.38
1998	590,743.19	60.00	9,845.72	34.80	342,641.45
1999	1,772,460.21	60.00	29,541.00	35.66	1,053,403.57
2000	12,834.62	60.00	213.91	36.52	7,812.63
2001	2,040,345.98	60.00	34,005.76	37.40	1,271,690.55
2002	322,736.71	60.00	5,378.94	38.28	205,887.01
2003	408,253.67	60.00	6,804.23	39.16	266,468.32

PAWC - Water Operations
Water Operations
304.32 Purification Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *60* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2004	325,998.95	60.00	5,433.31	40.06	217,640.00
2005	86,943.45	60.00	1,449.06	40.96	59,349.33
2006	17,221.22	60.00	287.02	41.86	12,015.51
2007	244,177.70	60.00	4,069.63	42.78	174,084.55
2008	87,510.98	60.00	1,458.52	43.70	63,730.92
2009	747,730.56	60.00	12,462.17	44.62	556,056.42
2010	706,051.38	60.00	11,767.52	45.55	536,013.87
2011	2,014,455.51	60.00	33,574.25	46.49	1,560,731.74
2012	2,608,666.35	60.00	43,477.76	47.43	2,061,964.15
2013	3,117,612.53	60.00	51,960.20	48.37	2,513,390.56
2014	3,757,456.71	60.00	62,624.27	49.32	3,088,719.64
2015	425,757.02	60.00	7,095.95	50.27	356,748.30
2016	1,489,321.54	60.00	24,822.02	51.23	1,271,717.64
2017	2,200,844.47	60.00	36,680.73	52.20	1,914,570.45
2018	1,949,483.88	60.00	32,491.39	53.16	1,727,259.50
2019	1,888,104.84	60.00	31,468.41	54.13	1,703,374.08
2020	3,470,430.47	60.00	57,840.50	55.10	3,187,109.28
2021	2,984,619.44	60.00	49,743.65	56.08	2,789,429.14
2022	7,498,009.91	60.00	124,966.81	57.05	7,129,829.32
2023	10,971,498.82	60.00	182,858.28	58.03	10,611,955.27
2024	1,823,187.53	60.00	30,386.45	59.02	1,793,275.24
2025	7,794,676.46	60.00	129,911.25	59.75	7,762,700.37
Total	73,156,042.27	53.01	1,219,150.38	48.98	59,710,896.74

Composite Average Remaining Life ... 48.98 Years

PAWC - Water Operations
Water Operations
304.36 Waste Handling Structures
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1991	10,728,292.17	55.00	195,059.87	27.92	5,446,191.02
1998	68,969.00	55.00	1,253.98	32.23	40,413.58
2000	122,317.58	55.00	2,223.96	33.57	74,649.12
2001	25,833.98	55.00	469.71	34.25	16,088.49
2003	4,063.71	55.00	73.89	35.67	2,635.47
2007	19,061.38	55.00	346.57	38.67	13,401.75
2010	29,348.23	55.00	533.60	41.08	21,918.66
2012	197,525.13	55.00	3,591.37	42.75	153,546.57
2013	129,535.29	55.00	2,355.19	43.62	102,728.13
2014	18,080.06	55.00	328.73	44.50	14,627.17
2016	167,667.01	55.00	3,048.49	46.30	141,135.73
2021	13,550,479.62	55.00	246,372.37	51.03	12,573,472.72
2023	3,380,408.50	55.00	61,461.98	53.00	3,257,762.96
Total	28,441,581.66	55.00	517,119.70	42.27	21,858,571.37

Composite Average Remaining Life ... 42.27 Years

PAWC - Water Operations
Water Operations
304.60 Office Buildings - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1986	1,193,234.40	55.00	21,695.16	29.42	638,317.98
1987	1,333,438.47	55.00	24,244.32	29.93	725,527.98
1988	66,300.97	55.00	1,205.47	30.43	36,686.85
1989	673,796.52	55.00	12,250.84	30.95	379,115.08
1990	53,021.27	55.00	964.02	31.46	30,330.63
1991	4,089.45	55.00	74.35	31.98	2,378.19
1992	18,335.02	55.00	333.36	32.51	10,838.35
1994	2,429.06	55.00	44.16	33.58	1,483.15
1995	69,619.62	55.00	1,265.81	34.12	43,195.47
1996	25,231.49	55.00	458.75	34.67	15,906.97
1997	109,992.96	55.00	1,999.87	35.23	70,455.14
1998	1,013.00	55.00	18.42	35.79	659.22
2001	62,892.80	55.00	1,143.50	37.52	42,899.85
2002	10,259.32	55.00	186.53	38.11	7,108.03
2003	73,531.37	55.00	1,336.93	38.70	51,744.15
2005	152,175.13	55.00	2,766.82	39.92	110,460.20
2006	268,253.78	55.00	4,877.34	40.54	197,748.40
2007	23,101.69	55.00	420.03	41.18	17,295.52
2008	107,200.39	55.00	1,949.10	41.82	81,509.22
2009	4,369.19	55.00	79.44	42.47	3,373.91
2010	30,818.46	55.00	560.34	43.13	24,169.62
2011	114,845.78	55.00	2,088.10	43.81	91,476.47
2012	143,420.45	55.00	2,607.64	44.49	116,021.23
2013	360,133.68	55.00	6,547.88	45.19	295,912.73
2014	82,708.84	55.00	1,503.80	45.90	69,031.55
2015	29,091.75	55.00	528.94	46.63	24,665.43
2016	107,280.37	55.00	1,950.55	47.37	92,404.97

PAWC - Water Operations
Water Operations
304.60 Office Buildings - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2017	95,983.57	55.00	1,745.15	48.13	83,992.97
2018	19,728,894.53	55.00	358,706.92	48.91	17,542,845.85
2019	1,662,367.46	55.00	30,224.84	49.70	1,502,209.95
2023	11,478.86	55.00	208.71	53.11	11,083.55
2025	2,409,664.54	55.00	43,812.05	54.76	2,398,940.05
Total	29,028,974.19	55.00	527,799.16	46.84	24,719,788.64

Composite Average Remaining Life ... 46.84 Years

PAWC - Water Operations
Water Operations
304.61 Office Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1924	845.00	0.00	0.00	0.00	0.00
1926	215.00	0.00	0.00	0.00	0.00
1958	13.02	50.00	0.26	4.36	1.14
1960	48.73	50.00	0.97	4.88	4.76
1961	21.19	50.00	0.42	5.15	2.18
1963	33,045.39	50.00	660.91	5.70	3,766.42
1964	1,079.50	50.00	21.59	5.99	129.25
1965	11,957.68	50.00	239.15	6.29	1,503.09
1966	1,125.43	50.00	22.51	6.60	148.45
1967	48,178.36	50.00	963.57	6.92	6,666.08
1968	57,455.89	50.00	1,149.12	7.26	8,337.44
1969	1,273.22	50.00	25.46	7.61	193.74
1970	11,121.74	50.00	222.43	7.98	1,774.44
1971	9,019.90	50.00	180.40	8.36	1,508.76
1972	61,461.67	50.00	1,229.23	8.77	10,777.28
1973	1,636.52	50.00	32.73	9.19	300.78
1975	6,526.85	50.00	130.54	10.09	1,317.20
1976	45,687.00	50.00	913.74	10.57	9,657.95
1977	13,240.50	50.00	264.81	11.07	2,930.87
1979	28,098.53	50.00	561.97	12.12	6,811.60
1980	1.10	50.00	0.02	12.68	0.28
1981	45,810.00	50.00	916.20	13.25	12,137.75
1982	361,045.49	50.00	7,220.91	13.84	99,924.22
1983	32,369.00	50.00	647.38	14.45	9,351.79
1984	902.06	50.00	18.04	15.07	271.87
1985	72,985.69	50.00	1,459.71	15.71	22,931.72
1986	351,447.26	50.00	7,028.94	16.37	115,030.97

PAWC - Water Operations
Water Operations
304.61 Office Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1987	596,055.80	50.00	11,921.11	17.04	203,085.95
1988	612,729.15	50.00	12,254.58	17.72	217,159.25
1989	449,868.60	50.00	8,997.37	18.42	165,725.32
1990	143,314.05	50.00	2,866.28	19.13	54,835.53
1991	33,727.65	50.00	674.55	19.86	13,393.94
1992	148,265.09	50.00	2,965.30	20.59	61,065.02
1993	12,902.30	50.00	258.05	21.34	5,507.31
1994	325,416.52	50.00	6,508.33	22.10	143,854.72
1995	58,927.46	50.00	1,178.55	22.88	26,959.67
1996	47,370.53	50.00	947.41	23.66	22,414.28
1997	35,194.64	50.00	703.89	24.45	17,211.87
1998	15,964.58	50.00	319.29	25.26	8,064.30
1999	61,011.45	50.00	1,220.23	26.07	31,813.31
2000	754,379.80	50.00	15,087.59	26.90	405,802.03
2001	49,302.15	50.00	986.04	27.73	27,344.02
2002	6,125.14	50.00	122.50	28.58	3,500.56
2003	84,890.14	50.00	1,697.80	29.43	49,964.73
2004	37,729.39	50.00	754.59	30.29	22,857.92
2005	346,446.58	50.00	6,928.93	31.16	215,931.33
2006	226,824.45	50.00	4,536.49	32.04	145,368.15
2007	90,382.39	50.00	1,807.65	32.93	59,531.40
2008	234,555.06	50.00	4,691.10	33.83	158,700.23
2009	101,931.15	50.00	2,038.62	34.73	70,811.29
2010	61,124.75	50.00	1,222.49	35.65	43,578.49
2011	121,514.52	50.00	2,430.29	36.57	88,867.59
2012	183,845.36	50.00	3,676.91	37.49	137,858.23
2013	88,318.55	50.00	1,766.37	38.43	67,874.24

PAWC - Water Operations
Water Operations
304.61 Office Buildings - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2014	402,537.52	50.00	8,050.75	39.36	316,916.13
2015	12,615.97	50.00	252.32	40.31	10,170.89
2016	683,665.11	50.00	13,673.30	41.26	564,157.59
2017	539,219.66	50.00	10,784.39	42.22	455,264.20
2018	1,151,356.24	50.00	23,027.11	43.18	994,199.27
2019	1,338,951.60	50.00	26,779.02	44.14	1,182,014.99
2020	619,050.23	50.00	12,381.00	45.11	558,482.93
2021	830,510.39	50.00	16,610.20	46.08	765,402.38
2022	1,604,063.59	50.00	32,081.26	47.06	1,509,611.06
2023	387,682.44	50.00	7,753.65	48.03	372,442.77
2024	800,288.59	50.00	16,005.76	49.02	784,538.88
2025	561,630.29	50.00	11,232.60	49.75	558,861.70
Total	15,056,300.60	48.48	301,104.67	36.06	10,856,623.48

Composite Average Remaining Life ... 36.06 Years

PAWC - Water Operations
Water Operations
304.62 Garage Buildings - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1958	1,356.00	55.00	24.65	14.96	368.88
1965	653,341.28	55.00	11,878.93	17.70	210,225.72
1967	45,486.00	55.00	827.02	18.51	15,309.50
1969	4,300.00	55.00	78.18	19.34	1,512.22
1970	2,902.00	55.00	52.76	19.76	1,042.82
1972	1,319.97	55.00	24.00	20.62	494.89
1973	9,153.18	55.00	166.42	21.06	3,504.19
1975	40.52	55.00	0.74	21.94	16.17
1977	1,690.34	55.00	30.73	22.85	702.19
1979	3,808.27	55.00	69.24	23.78	1,646.21
1981	0.16	55.00	0.00	24.73	0.07
1985	8,909.55	55.00	161.99	26.70	4,325.42
1986	56,270.95	55.00	1,023.11	27.21	27,841.02
1987	799,727.39	55.00	14,540.49	27.73	403,206.44
1988	16,136.70	55.00	293.39	28.25	8,289.78
1989	365,534.82	55.00	6,646.09	28.79	191,320.01
1990	21,055.84	55.00	382.83	29.33	11,226.80
1991	5,126.72	55.00	93.21	29.87	2,784.59
1992	10,300.00	55.00	187.27	30.43	5,698.57
1993	2,884.28	55.00	52.44	30.99	1,625.33
1995	1,257.55	55.00	22.86	32.15	734.99
1996	53,669.41	55.00	975.81	32.74	31,943.82
1997	53,667.76	55.00	975.78	33.34	32,527.93
1998	41,194.00	55.00	748.98	33.94	25,423.71
2000	55,773.26	55.00	1,014.06	35.19	35,686.12
2001	106,652.86	55.00	1,939.14	35.83	69,476.45
2002	3,229.97	55.00	58.73	36.48	2,142.24

PAWC - Water Operations
Water Operations
304.62 Garage Buildings - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2006	123,630.77	55.00	2,247.83	39.18	88,078.91
2007	61,197.63	55.00	1,112.68	39.89	44,385.48
2008	530,439.54	55.00	9,644.35	40.61	391,648.11
2009	415,793.46	55.00	7,559.88	41.34	312,525.52
2010	105,796.74	55.00	1,923.58	42.08	80,951.06
2011	56,537.12	55.00	1,027.95	42.84	44,037.44
2012	1,931,567.43	55.00	35,119.40	43.61	1,531,492.13
2013	23,340.26	55.00	424.37	44.39	18,838.73
2014	16,852,825.36	55.00	306,414.91	45.19	13,847,056.48
2015	31,770.86	55.00	577.65	46.00	26,573.62
2018	19,072,598.79	55.00	346,774.41	48.53	16,827,740.15
2019	6,338,430.77	55.00	115,244.16	49.40	5,693,025.99
2021	11,528,614.10	55.00	209,611.10	51.19	10,730,906.48
Total	59,397,331.61	55.00	1,079,951.14	46.97	50,726,336.19

Composite Average Remaining Life ... 46.97 Years

PAWC - Water Operations
Water Operations
304.63 Garage Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 45 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1906	2,277.20	0.00	0.00	0.00	0.00
1908	11,029.40	0.00	0.00	0.00	0.00
1909	13,507.39	0.00	0.00	0.00	0.00
1912	4,321.23	0.00	0.00	0.00	0.00
1922	38.02	0.00	0.00	0.00	0.00
1924	0.63	0.00	0.00	0.00	0.00
1926	14,835.75	0.00	0.00	0.00	0.00
1927	283.00	0.00	0.00	0.00	0.00
1928	2,177.00	0.00	0.00	0.00	0.00
1929	2,405.47	0.00	0.00	0.00	0.00
1935	1,480.00	0.00	0.00	0.00	0.00
1937	295.00	0.00	0.00	0.00	0.00
1940	190.00	0.00	0.00	0.00	0.00
1942	2,556.77	0.00	0.00	0.00	0.00
1943	0.07	0.00	0.00	0.00	0.00
1945	648.58	0.00	0.00	0.00	0.00
1947	0.21	0.00	0.00	0.00	0.00
1948	524.42	0.00	0.00	0.00	0.00
1949	260.00	0.00	0.00	0.00	0.00
1950	368.99	45.00	8.20	0.50	4.10
1951	871.00	45.00	19.36	0.60	11.54
1954	10,690.00	45.00	237.56	1.26	298.56
1955	141.54	45.00	3.15	1.49	4.69
1956	6,563.98	45.00	145.87	1.71	249.25
1957	2,349.38	45.00	52.21	1.96	102.38
1958	1,197.00	45.00	26.60	2.22	58.93
1959	728.45	45.00	16.19	2.47	40.01

PAWC - Water Operations
Water Operations
304.63 Garage Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 45 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1960	2,083.92	45.00	46.31	2.72	125.80
1961	2,337.30	45.00	51.94	2.97	154.52
1962	827.00	45.00	18.38	3.23	59.43
1963	2,401.75	45.00	53.37	3.49	186.39
1964	3,175.28	45.00	70.56	3.75	264.69
1965	574.98	45.00	12.78	4.00	51.12
1966	1,195.17	45.00	26.56	4.26	113.21
1967	5,566.05	45.00	123.69	4.53	560.09
1968	2,498.10	45.00	55.51	4.80	266.42
1969	2,634.23	45.00	58.54	5.07	296.91
1970	7,477.75	45.00	166.17	5.36	890.55
1971	118.53	45.00	2.63	5.66	14.90
1972	1,497.86	45.00	33.29	5.97	198.68
1973	4,075.51	45.00	90.57	6.29	570.10
1974	1,878.67	45.00	41.75	6.63	276.98
1976	4,139.68	45.00	91.99	7.37	678.11
1977	1,348.58	45.00	29.97	7.77	232.80
1978	231.44	45.00	5.14	8.19	42.10
1980	2,836.34	45.00	63.03	9.08	572.43
1981	1,534.25	45.00	34.09	9.56	325.99
1982	6,296.00	45.00	139.91	10.06	1,407.78
1983	6,864.02	45.00	152.53	10.59	1,614.77
1984	50,567.72	45.00	1,123.73	11.13	12,506.08
1985	35,513.76	45.00	789.19	11.69	9,227.31
1986	27,677.97	45.00	615.07	12.27	7,549.73
1987	822.21	45.00	18.27	12.88	235.32
1988	551,770.05	45.00	12,261.55	13.50	165,532.95

PAWC - Water Operations
Water Operations
304.63 Garage Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 45 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1989	67,022.20	45.00	1,489.38	14.14	21,058.21
1990	977,166.56	45.00	21,714.80	14.79	321,262.88
1991	703,073.68	45.00	15,623.85	15.47	241,650.07
1992	326,380.72	45.00	7,252.90	16.16	117,188.86
1993	10,915.11	45.00	242.56	16.86	4,089.78
1994	68,231.44	45.00	1,516.25	17.58	26,654.15
1995	6,922.98	45.00	153.84	18.31	2,816.99
1996	89,822.17	45.00	1,996.05	19.06	38,040.63
1997	117,923.48	45.00	2,620.52	19.82	51,930.01
1998	17,129.33	45.00	380.65	20.59	7,836.79
1999	137,988.42	45.00	3,066.41	21.37	65,532.52
2000	71,946.71	45.00	1,598.82	22.17	35,439.64
2001	20,966.41	45.00	465.92	22.98	10,704.52
2002	9,450.88	45.00	210.02	23.79	4,997.09
2004	1,409.66	45.00	31.33	25.46	797.65
2005	49,272.77	45.00	1,094.95	26.32	28,813.72
2006	46,209.96	45.00	1,026.89	27.18	27,907.03
2007	51,006.16	45.00	1,133.47	28.05	31,790.86
2008	30,880.12	45.00	686.22	28.93	19,851.09
2009	16,376.26	45.00	363.92	29.82	10,851.20
2010	3,292.18	45.00	73.16	30.72	2,247.32
2011	204,308.42	45.00	4,540.18	31.63	143,586.18
2012	213,304.25	45.00	4,740.09	32.54	154,248.87
2013	45,748.36	45.00	1,016.63	33.46	34,021.24
2014	71,517.92	45.00	1,589.29	34.40	54,665.77
2015	514,980.71	45.00	11,444.01	35.33	404,366.30
2016	77,822.77	45.00	1,729.39	36.28	62,740.06

PAWC - Water Operations
Water Operations
304.63 Garage Buildings - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *45* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2017	32,855.96	45.00	730.13	37.23	27,182.05
2018	1,423,776.58	45.00	31,639.46	38.18	1,208,148.16
2019	166,008.61	45.00	3,689.08	39.15	144,415.19
2020	417,521.07	45.00	9,278.24	40.11	372,174.82
2021	1,976,668.98	45.00	43,925.96	41.08	1,804,606.07
2022	397,827.20	45.00	8,840.60	42.06	371,809.88
2023	163,371.80	45.00	3,630.48	43.04	156,238.62
2025	285,732.90	45.00	6,349.62	44.75	284,168.28
Total	9,622,517.33	35.39	212,570.73	30.57	6,498,557.15

Composite Average Remaining Life ... 30.57 Years

PAWC - Water Operations
Water Operations
304.65 Miscellaneous Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1900	1,094.45	0.00	0.00	0.00	0.00
1916	1.00	0.00	0.00	0.00	0.00
1917	1,000.00	0.00	0.00	0.00	0.00
1920	883.12	0.00	0.00	0.00	0.00
1927	163.99	0.00	0.00	0.00	0.00
1929	714.00	0.00	0.00	0.00	0.00
1930	5,124.00	0.00	0.00	0.00	0.00
1936	1,441.58	0.00	0.00	0.00	0.00
1941	691.00	0.00	0.00	0.00	0.00
1942	573.00	0.00	0.00	0.00	0.00
1943	45.00	0.00	0.00	0.00	0.00
1951	1.00	0.00	0.00	0.00	0.00
1952	502.35	0.00	0.00	0.00	0.00
1954	1,966.06	0.00	0.00	0.00	0.00
1958	1,456.00	35.00	41.60	1.12	46.48
1959	140.00	35.00	4.00	1.46	5.83
1960	1,334.56	35.00	38.13	1.79	68.12
1962	187.00	35.00	5.34	2.45	13.10
1963	1,065.20	35.00	30.43	2.79	84.77
1964	435.84	35.00	12.45	3.12	38.83
1967	434.20	35.00	12.41	4.12	51.12
1969	4.82	35.00	0.14	4.79	0.66
1970	260.57	35.00	7.44	5.13	38.17
1971	482.00	35.00	13.77	5.47	75.28
1972	581.70	35.00	16.62	5.81	96.53
1973	25.00	35.00	0.71	6.15	4.39
1975	2,998.44	35.00	85.67	6.85	586.57

PAWC - Water Operations
Water Operations
304.65 Miscellaneous Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1981	144.00	35.00	4.11	9.01	37.08
1983	1,047.68	35.00	29.93	9.77	292.35
1986	2,001.93	35.00	57.20	10.94	625.56
1987	6,790.60	35.00	194.02	11.34	2,199.80
1988	3,235.00	35.00	92.43	11.75	1,085.61
1989	533.50	35.00	15.24	12.16	185.34
1991	2,526.22	35.00	72.18	13.01	938.79
1992	1,500.00	35.00	42.86	13.44	576.06
1996	22,317.33	35.00	637.64	15.26	9,730.21
1997	6,757.10	35.00	193.06	15.74	3,038.06
1998	4,559.34	35.00	130.27	16.22	2,113.26
2003	66,511.44	35.00	1,900.32	18.81	35,748.72
2004	206,480.10	35.00	5,899.42	19.37	114,243.62
2005	177,018.70	35.00	5,057.66	19.93	100,806.91
2006	64,364.98	35.00	1,838.99	20.51	37,720.17
2007	264,045.81	35.00	7,544.15	21.11	159,220.65
2008	330,080.07	35.00	9,430.83	21.71	204,769.79
2009	26,671.02	35.00	762.03	22.34	17,021.45
2010	149,299.60	35.00	4,265.69	22.98	98,014.19
2011	1,720.18	35.00	49.15	23.63	1,161.57
2012	59,772.20	35.00	1,707.77	24.31	41,513.39
2013	28,815.79	35.00	823.31	25.00	20,583.30
2014	11,822.89	35.00	337.80	25.71	8,685.34
2015	594,767.32	35.00	16,993.31	26.44	449,320.03
2016	487,214.74	35.00	13,920.38	27.19	378,524.94
2017	371,165.00	35.00	10,604.69	27.96	296,551.65
2018	771,524.70	35.00	22,043.50	28.76	633,926.55

PAWC - Water Operations
Water Operations
304.65 Miscellaneous Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2019	38.81	35.00	1.11	29.57	32.79
2020	9,366.40	35.00	267.61	30.41	8,139.03
2021	35,432.97	35.00	1,012.37	31.28	31,664.08
2022	36,204.97	35.00	1,034.42	32.16	33,271.64
2023	711,842.91	35.00	20,338.31	33.08	672,786.84
2025	622,752.32	35.00	17,792.88	34.75	618,324.27
Total	5,101,931.50	26.83	145,363.35	27.41	3,983,962.90

Composite Average Remaining Life ... 27.41 Years

PAWC - Water Operations
Water Operations
305.20 Collecting Reservoirs - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 75 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1900	835,693.23	75.00	11,142.58	0.61	6,820.24
1902	19,788.54	75.00	263.85	0.98	257.33
1903	1,483.70	75.00	19.78	1.21	24.02
1904	6,208.51	75.00	82.78	1.38	114.06
1905	1,513.19	75.00	20.18	1.63	32.93
1906	2,848.52	75.00	37.98	1.88	71.55
1907	144,839.78	75.00	1,931.20	2.08	4,021.63
1908	10,658.94	75.00	142.12	2.34	332.17
1909	682.66	75.00	9.10	2.59	23.62
1911	3,773.26	75.00	50.31	3.07	154.57
1912	30,745.69	75.00	409.94	3.33	1,366.99
1914	12,863.21	75.00	171.51	3.83	656.64
1915	50,177.33	75.00	669.03	4.09	2,738.78
1916	14,900.42	75.00	198.67	4.33	860.99
1919	72,456.55	75.00	966.09	5.11	4,932.41
1920	740.31	75.00	9.87	5.37	52.98
1921	7,313.54	75.00	97.51	5.63	549.23
1922	804.62	75.00	10.73	5.88	63.06
1924	45,444.52	75.00	605.93	6.40	3,880.28
1925	923.00	75.00	12.31	6.65	81.87
1927	5,568.36	75.00	74.24	7.18	533.35
1928	37,821.79	75.00	504.29	7.44	3,751.72
1930	1,030.30	75.00	13.74	7.99	109.70
1931	4,532.14	75.00	60.43	8.25	498.82
1935	94.29	75.00	1.26	9.42	11.84
1936	60.81	75.00	0.81	9.73	7.89
1937	179.62	75.00	2.39	10.04	24.05

PAWC - Water Operations
Water Operations
305.20 Collecting Reservoirs - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 75 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1938	1,869.64	75.00	24.93	10.37	258.49
1939	499.89	75.00	6.67	10.71	71.36
1940	48.00	75.00	0.64	11.05	7.07
1941	417.00	75.00	5.56	11.41	63.41
1942	1,528.31	75.00	20.38	11.77	239.89
1943	189.24	75.00	2.52	12.15	30.66
1944	0.05	75.00	0.00	12.54	0.01
1945	185,387.19	75.00	2,471.83	12.94	31,985.84
1946	18,237.81	75.00	243.17	13.35	3,247.34
1947	42,259.80	75.00	563.46	13.78	7,764.23
1948	105,879.92	75.00	1,411.73	14.22	20,070.07
1951	2,586.50	75.00	34.49	15.61	538.21
1953	244.63	75.00	3.26	16.60	54.14
1954	556.00	75.00	7.41	17.11	126.85
1956	29.00	75.00	0.39	18.18	7.03
1957	50,615.23	75.00	674.87	18.73	12,638.94
1958	14,936.39	75.00	199.15	19.29	3,842.54
1959	347,652.27	75.00	4,635.36	19.87	92,101.14
1960	322,173.80	75.00	4,295.65	20.45	87,866.89
1961	925.38	75.00	12.34	21.06	259.81
1962	7,307.15	75.00	97.43	21.67	2,110.90
1963	2,783.94	75.00	37.12	22.29	827.23
1964	109,470.10	75.00	1,459.60	22.92	33,455.29
1965	9,425.31	75.00	125.67	23.56	2,961.15
1966	0.72	75.00	0.01	24.21	0.23
1967	44,616.61	75.00	594.89	24.88	14,800.84
1968	12,087.29	75.00	161.16	25.55	4,118.08

PAWC - Water Operations
Water Operations
305.20 Collecting Reservoirs - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 75 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1971	440.77	75.00	5.88	27.63	162.37
1972	134.20	75.00	1.79	28.34	50.70
1973	5,440.44	75.00	72.54	29.06	2,107.75
1974	85.00	75.00	1.13	29.78	33.75
1975	24,477.44	75.00	326.37	30.52	9,959.57
1976	106,550.10	75.00	1,420.67	31.26	44,413.13
1977	25,174.94	75.00	335.67	32.01	10,745.53
1978	2,594.29	75.00	34.59	32.77	1,133.54
1979	3,329.73	75.00	44.40	33.54	1,489.00
1980	7,781.00	75.00	103.75	34.31	3,559.77
1981	59,662.39	75.00	795.50	35.09	27,915.79
1982	9,268.57	75.00	123.58	35.88	4,434.43
1983	32,323.28	75.00	430.98	36.68	15,807.34
1984	12,551.13	75.00	167.35	37.48	6,272.12
1985	12,570.43	75.00	167.61	38.29	6,417.79
1986	79,804.85	75.00	1,064.06	39.11	41,612.18
1987	293,417.83	75.00	3,912.24	39.93	156,211.01
1988	6,093.28	75.00	81.24	40.76	3,311.53
1989	12,607.93	75.00	168.11	41.60	6,992.55
1990	7,641.23	75.00	101.88	42.44	4,323.69
1991	73,420.51	75.00	978.94	43.29	42,376.82
1992	549,943.90	75.00	7,332.59	44.14	323,683.73
1993	13,225.19	75.00	176.34	45.00	7,935.74
1994	647.79	75.00	8.64	45.87	396.21
1995	436,231.22	75.00	5,816.42	46.75	271,889.96
1996	26,395.17	75.00	351.94	47.62	16,760.37
1997	621,953.13	75.00	8,292.71	48.51	402,275.53

PAWC - Water Operations
Water Operations
305.20 Collecting Reservoirs - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1998	9,060.00	75.00	120.80	49.40	5,967.44
2000	37,724.43	75.00	502.99	51.20	25,751.41
2001	111,242.44	75.00	1,483.23	52.10	77,279.52
2002	125,676.02	75.00	1,675.68	53.01	88,831.84
2003	6,180.00	75.00	82.40	53.93	4,443.79
2006	13,786.00	75.00	183.81	56.71	10,423.14
2007	23,343.75	75.00	311.25	57.64	17,940.02
2014	1,226,437.95	75.00	16,352.51	64.28	1,051,162.38
2016	7,768.42	75.00	103.58	66.21	6,857.89
2017	107,398.37	75.00	1,431.98	67.18	96,195.68
2019	385,956.96	75.00	5,146.09	69.12	355,699.70
2020	634,072.79	75.00	8,454.30	70.10	592,605.20
2023	1,229,133.24	75.00	16,388.44	73.03	1,196,889.97
2024	4,933,894.94	75.00	65,785.26	74.02	4,869,143.58
Total	13,870,315.05	75.00	184,937.53	54.95	10,162,883.79

Composite Average Remaining Life ... 54.95 Years

PAWC - Water Operations
Water Operations
306.10 Lake Intakes - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1962	4,167.41	55.00	75.77	12.86	974.15
1966	6,696.14	55.00	121.75	14.27	1,737.66
1970	1,783.13	55.00	32.42	15.80	512.26
1990	18,120.03	55.00	329.46	25.67	8,456.49
1992	743,957.01	55.00	13,526.49	26.91	364,030.71
1995	1,697,864.04	55.00	30,870.26	28.88	891,468.02
1996	16,079.46	55.00	292.35	29.56	8,642.75
1997	9,262,132.20	55.00	168,402.42	30.26	5,096,104.08
1998	153,399.52	55.00	2,789.08	30.97	86,390.31
2004	89,428.33	55.00	1,625.97	35.55	57,807.97
2005	48,578.25	55.00	883.24	36.37	32,120.17
2007	52,227.42	55.00	949.59	38.03	36,115.56
2008	24,096.05	55.00	438.11	38.89	17,037.11
2018	210,583.17	55.00	3,828.79	48.08	184,089.14
Total	12,329,112.16	55.00	224,165.69	30.27	6,785,486.37

Composite Average Remaining Life ... *30.27 Years*

PAWC - Water Operations
Water Operations
306.20 Lake Intakes - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1900	8,148.36	0.00	0.00	0.00	0.00
1901	255.00	0.00	0.00	0.00	0.00
1903	1,764.21	0.00	0.00	0.00	0.00
1905	926.29	0.00	0.00	0.00	0.00
1906	116.00	0.00	0.00	0.00	0.00
1907	50.00	0.00	0.00	0.00	0.00
1908	5,105.59	0.00	0.00	0.00	0.00
1909	625.00	0.00	0.00	0.00	0.00
1914	91.65	0.00	0.00	0.00	0.00
1915	2,103.77	0.00	0.00	0.00	0.00
1916	387.96	0.00	0.00	0.00	0.00
1920	362.00	0.00	0.00	0.00	0.00
1924	184.48	0.00	0.00	0.00	0.00
1934	275.60	50.00	5.51	3.15	17.38
1937	1,649.48	50.00	32.99	4.16	137.17
1938	223.95	50.00	4.48	4.49	20.12
1948	4,170.00	50.00	83.40	7.85	654.85
1954	515.16	50.00	10.30	9.93	102.27
1955	1,225.24	50.00	24.50	10.28	251.88
1959	0.02	50.00	0.00	11.71	0.00
1961	195,437.96	50.00	3,908.76	12.45	48,647.82
1962	2,445.04	50.00	48.90	12.82	626.75
1963	0.35	50.00	0.01	13.19	0.09
1964	13,102.67	50.00	262.05	13.57	3,555.57
1966	21,261.52	50.00	425.23	14.33	6,094.75
1967	34,966.21	50.00	699.32	14.72	10,294.42
1968	3,309.73	50.00	66.19	15.11	1,000.33

PAWC - Water Operations
Water Operations
306.20 Lake Intakes - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1969	337,960.76	50.00	6,759.21	15.51	104,816.97
1970	242.30	50.00	4.85	15.91	77.08
1972	2,403.96	50.00	48.08	16.72	803.78
1973	191,463.70	50.00	3,829.27	17.13	65,595.05
1974	695.59	50.00	13.91	17.55	244.10
1976	4,944.00	50.00	98.88	18.39	1,818.84
1979	4,591.44	50.00	91.83	19.70	1,809.42
1980	219.84	50.00	4.40	20.15	88.60
1982	0.25	50.00	0.00	21.06	0.11
1983	590.00	50.00	11.80	21.53	254.05
1984	7,128.71	50.00	142.57	22.00	3,136.74
1985	708.02	50.00	14.16	22.48	318.31
1986	5,152.00	50.00	103.04	22.96	2,366.15
1987	373.00	50.00	7.46	23.46	174.97
1988	329.26	50.00	6.59	23.95	157.74
1989	29,733.17	50.00	594.66	24.46	14,545.30
1991	302,038.47	50.00	6,040.76	25.49	154,007.71
1992	13,345.24	50.00	266.90	26.02	6,945.98
1994	7,175.69	50.00	143.51	27.11	3,890.40
1996	994,262.16	50.00	19,885.22	28.23	561,311.78
1997	105,445.07	50.00	2,108.90	28.80	60,738.73
1998	4,168.18	50.00	83.36	29.38	2,449.58
1999	427,734.05	50.00	8,554.67	29.98	256,448.00
2001	11,542.58	50.00	230.85	31.19	7,201.38
2002	111,458.00	50.00	2,229.16	31.82	70,931.07
2006	200,520.03	50.00	4,010.40	34.43	138,093.48
2007	433,877.13	50.00	8,677.53	35.12	304,736.33

PAWC - Water Operations
Water Operations
306.20 Lake Intakes - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2008	71,901.04	50.00	1,438.02	35.81	51,502.21
2011	35,533.38	50.00	710.67	37.99	26,995.28
2013	63,869.08	50.00	1,277.38	39.50	50,461.75
2014	6,733.23	50.00	134.66	40.29	5,425.03
2017	304,291.25	50.00	6,085.82	42.72	260,009.45
2019	145,315.45	50.00	2,906.31	44.43	129,131.35
2020	65,336.23	50.00	1,306.72	45.31	59,209.16
2021	110,220.53	50.00	2,204.41	46.21	101,863.18
2023	1,195,242.35	50.00	23,904.82	48.06	1,148,890.15
Total	5,495,248.38	39.68	109,502.44	33.50	3,667,852.61

Composite Average Remaining Life ... 33.50 Years

PAWC - Water Operations
Water Operations
307.00 Wells and Springs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1901	687.32	0.00	0.00	0.00	0.00
1904	1,476.20	0.00	0.00	0.00	0.00
1905	11,557.00	0.00	0.00	0.00	0.00
1907	60.00	0.00	0.00	0.00	0.00
1908	11.00	0.00	0.00	0.00	0.00
1910	6,358.00	0.00	0.00	0.00	0.00
1912	850.80	0.00	0.00	0.00	0.00
1913	1,496.00	0.00	0.00	0.00	0.00
1914	685.91	0.00	0.00	0.00	0.00
1915	2,515.00	0.00	0.00	0.00	0.00
1916	1,761.00	55.00	32.02	0.50	16.01
1918	1,184.00	55.00	21.53	1.16	24.99
1920	62.00	55.00	1.13	1.85	2.09
1922	2,819.00	55.00	51.25	2.58	132.41
1923	9,868.00	55.00	179.42	2.95	529.71
1924	8,365.00	55.00	152.09	3.33	506.10
1926	460.00	55.00	8.36	4.07	34.01
1927	1,178.84	55.00	21.43	4.44	95.16
1930	9.00	55.00	0.16	5.57	0.91
1934	199.00	55.00	3.62	7.09	25.65
1935	1,250.00	55.00	22.73	7.47	169.84
1937	3,054.88	55.00	55.54	8.24	457.76
1938	241.00	55.00	4.38	8.63	37.81
1939	2,545.67	55.00	46.28	9.02	417.31
1940	74.75	55.00	1.36	9.41	12.79
1941	830.19	55.00	15.09	9.80	147.89
1945	4,321.00	55.00	78.56	11.37	893.58

PAWC - Water Operations
Water Operations
307.00 Wells and Springs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1946	224.36	55.00	4.08	11.77	48.03
1948	865.57	55.00	15.74	12.57	197.87
1950	108.00	55.00	1.96	13.38	26.27
1951	608.00	55.00	11.05	13.79	152.40
1953	13,001.00	55.00	236.38	14.60	3,451.80
1954	14,821.28	55.00	269.48	15.01	4,045.83
1955	12,168.00	55.00	221.24	15.43	3,412.89
1956	1,603.07	55.00	29.15	15.84	461.72
1957	25,434.96	55.00	462.45	16.26	7,518.71
1958	2,594.00	55.00	47.16	16.68	786.53
1959	1,929.11	55.00	35.07	17.10	599.68
1960	46,187.99	55.00	839.78	17.52	14,712.65
1961	4,481.46	55.00	81.48	17.94	1,462.12
1962	3,009.76	55.00	54.72	18.37	1,005.33
1963	8,669.74	55.00	157.63	18.80	2,963.50
1964	2,122.94	55.00	38.60	19.23	742.31
1965	13,699.16	55.00	249.08	19.66	4,898.00
1966	121,048.28	55.00	2,200.88	20.10	44,238.79
1967	4,217.40	55.00	76.68	20.54	1,574.91
1968	7,127.37	55.00	129.59	20.98	2,718.71
1969	56,597.45	55.00	1,029.04	21.42	22,044.95
1970	4,767.16	55.00	86.68	21.87	1,895.47
1971	31,889.13	55.00	579.80	22.32	12,939.49
1972	101,843.95	55.00	1,851.71	22.77	42,160.31
1973	100,796.88	55.00	1,832.67	23.22	42,558.85
1974	38,869.79	55.00	706.72	23.68	16,734.71
1975	9,107.78	55.00	165.60	24.14	3,997.37

PAWC - Water Operations
Water Operations
307.00 Wells and Springs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1976	108,404.51	55.00	1,970.99	24.60	48,490.95
1977	20,559.74	55.00	373.81	25.07	9,370.95
1978	179,329.52	55.00	3,260.53	25.54	83,267.37
1979	92,875.03	55.00	1,688.64	26.01	43,922.15
1980	225,176.46	55.00	4,094.11	26.49	108,439.61
1981	134,430.79	55.00	2,444.19	26.97	65,911.39
1982	298,848.65	55.00	5,433.61	27.45	149,152.27
1983	168,391.29	55.00	3,061.66	27.94	85,533.90
1984	49,453.21	55.00	899.15	28.43	25,560.69
1985	97,450.97	55.00	1,771.83	28.92	51,246.49
1986	89,798.09	55.00	1,632.69	29.42	48,037.28
1987	305,786.74	55.00	5,559.76	29.93	166,379.51
1988	210,413.97	55.00	3,825.71	30.43	116,430.04
1989	96,932.29	55.00	1,762.40	30.95	54,539.45
1990	945,309.21	55.00	17,187.43	31.46	540,760.85
1991	91,173.68	55.00	1,657.70	31.98	53,021.30
1992	222,949.85	55.00	4,053.63	32.51	131,791.92
1993	80,770.05	55.00	1,468.55	33.04	48,527.35
1994	11,331.94	55.00	206.04	33.58	6,919.14
1995	25,861.85	55.00	470.22	34.12	16,045.98
1996	43,637.51	55.00	793.41	34.67	27,510.89
1997	132,896.24	55.00	2,416.29	35.23	85,125.66
1998	61,454.06	55.00	1,117.35	35.79	39,991.66
1999	40,204.97	55.00	731.00	36.36	26,579.10
2000	895,199.93	55.00	16,276.35	36.94	601,167.40
2001	249,974.73	55.00	4,544.99	37.52	170,510.44
2002	305,241.71	55.00	5,549.85	38.11	211,482.62

PAWC - Water Operations
Water Operations
307.00 Wells and Springs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2003	144,555.07	55.00	2,628.27	38.70	101,723.65
2004	994,772.65	55.00	18,086.76	39.31	710,976.49
2005	2,661.30	55.00	48.39	39.92	1,931.77
2006	231,535.79	55.00	4,209.74	40.54	170,681.03
2007	502,967.06	55.00	9,144.85	41.18	376,555.86
2008	312,340.45	55.00	5,678.91	41.82	237,486.34
2009	8,587.18	55.00	156.13	42.47	6,631.06
2010	274,539.18	55.00	4,991.62	43.13	215,309.50
2011	340,253.19	55.00	6,186.42	43.81	271,017.02
2012	103,855.14	55.00	1,888.27	44.49	84,014.52
2013	217,845.35	55.00	3,960.82	45.19	178,998.01
2014	173,445.17	55.00	3,153.55	45.90	144,763.10
2015	1,155,296.09	55.00	21,005.37	46.63	979,517.40
2016	83,597.76	55.00	1,519.96	47.37	72,006.17
2017	28,775.08	55.00	523.18	48.13	25,180.40
2018	120,668.59	55.00	2,193.97	48.91	107,297.98
2019	136,622.64	55.00	2,484.05	49.70	123,460.00
2020	262,341.46	55.00	4,769.84	50.52	240,958.12
2021	186,141.59	55.00	3,384.39	51.36	173,806.28
2022	1,581,144.58	55.00	28,748.06	52.22	1,501,177.49
2023	297,180.05	55.00	5,403.27	53.11	286,945.73
2024	63,523.51	55.00	1,154.97	54.03	62,404.74
2025	14,007.92	55.00	254.69	54.76	13,945.58
Total	13,112,227.94	49.71	237,936.76	39.27	9,343,357.76

Composite Average Remaining Life ... 39.27 Years

PAWC - Water Operations
Water Operations
310.00 Power Generation Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 45 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1931	3,609.84	0.00	0.00	0.00	0.00
1936	2,809.10	45.00	62.42	0.50	31.21
1937	4,520.24	45.00	100.45	0.79	78.87
1940	2,939.00	45.00	65.31	1.79	117.06
1944	1.00	45.00	0.02	3.14	0.07
1954	8,338.50	45.00	185.30	6.49	1,202.83
1957	1,178.00	45.00	26.18	7.51	196.63
1958	5,336.00	45.00	118.58	7.86	931.50
1959	107.00	45.00	2.38	8.20	19.50
1963	940.00	45.00	20.89	9.61	200.67
1965	6,019.00	45.00	133.76	10.32	1,380.88
1966	142.00	45.00	3.16	10.69	33.72
1967	7,319.00	45.00	162.64	11.05	1,797.92
1968	23,061.00	45.00	512.47	11.42	5,854.60
1969	45,202.40	45.00	1,004.50	11.80	11,849.84
1970	206.00	45.00	4.58	12.17	55.73
1972	7,872.85	45.00	174.95	12.94	2,263.65
1973	136.00	45.00	3.02	13.33	40.28
1974	52,315.00	45.00	1,162.56	13.72	15,949.26
1975	38,313.36	45.00	851.41	14.12	12,018.52
1980	25,076.66	45.00	557.26	16.17	9,011.71
1981	585.65	45.00	13.01	16.60	216.01
1982	11,137.43	45.00	247.50	17.03	4,214.95
1983	2,509.00	45.00	55.76	17.47	973.96
1991	39,570.00	45.00	879.33	21.21	18,649.21
1992	48,752.04	45.00	1,083.38	21.71	23,519.87
1993	23,243.53	45.00	516.52	22.22	11,476.40

PAWC - Water Operations
Water Operations
310.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 45 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1994	107,457.50	45.00	2,387.94	22.74	54,291.90
1995	1,076.42	45.00	23.92	23.26	556.43
1996	7,932.48	45.00	176.28	23.80	4,195.04
1997	1,040,121.31	45.00	23,113.80	24.34	562,652.64
1998	20,346.13	45.00	452.14	24.90	11,256.89
1999	250,124.14	45.00	5,558.31	25.46	141,522.97
2000	96,600.18	45.00	2,146.67	26.04	55,891.05
2001	3,572.21	45.00	79.38	26.62	2,113.42
2002	189,643.82	45.00	4,214.31	27.22	114,714.32
2003	241,761.04	45.00	5,372.47	27.83	149,507.74
2004	86,744.06	45.00	1,927.65	28.45	54,838.70
2005	261,676.97	45.00	5,815.04	29.08	169,115.83
2006	370,647.36	45.00	8,236.61	29.73	244,856.79
2007	106,124.17	45.00	2,358.31	30.39	71,660.24
2008	133,786.35	45.00	2,973.03	31.06	92,335.97
2009	129,823.10	45.00	2,884.96	31.74	91,578.06
2010	97,770.04	45.00	2,172.67	32.45	70,492.97
2011	401,064.15	45.00	8,912.53	33.16	295,543.08
2012	6,230,204.92	45.00	138,448.95	33.89	4,692,099.91
2013	5,465,154.46	45.00	121,447.84	34.64	4,206,472.11
2014	619,366.07	45.00	13,763.69	35.40	487,231.42
2015	609,698.44	45.00	13,548.85	36.18	490,177.80
2016	160,719.19	45.00	3,571.54	36.97	132,054.62
2017	266,682.99	45.00	5,926.29	37.79	223,937.30
2018	983,860.91	45.00	21,863.57	38.62	844,323.73
2019	344,429.87	45.00	7,653.99	39.47	302,100.91
2020	278,768.83	45.00	6,194.86	40.34	249,891.04

PAWC - Water Operations
Water Operations
310.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *45* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2021	193,906.93	45.00	4,309.04	41.23	177,647.01
2022	168,052.35	45.00	3,734.50	42.13	157,352.29
2023	5,452,340.43	45.00	121,163.08	43.07	5,218,102.28
2024	839,770.15	45.00	18,661.55	44.02	821,479.82
2025	1,604,430.51	45.00	35,654.00	44.75	1,595,503.75
Total	27,124,897.08	44.24	602,695.08	36.35	21,907,582.87

Composite Average Remaining Life ... 36.35 Years

PAWC - Water Operations
Water Operations
311.20 Pumping Equipment - Electric
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 39 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1957	5,932.62	39.00	152.12	3.72	565.19
1958	77.00	39.00	1.97	4.09	8.08
1974	5,101.00	39.00	130.79	10.38	1,357.59
1977	19,707.60	39.00	505.32	11.62	5,872.70
1978	19,466.00	39.00	499.13	12.04	6,010.23
1979	2,217.00	39.00	56.85	12.46	708.50
1980	442.01	39.00	11.33	12.89	146.08
1981	8,313.84	39.00	213.17	13.32	2,838.89
1982	1,064.04	39.00	27.28	13.75	375.10
1983	2,670.41	39.00	68.47	14.18	971.16
1984	1,419.00	39.00	36.38	14.62	531.99
1989	6,064.63	39.00	155.50	16.87	2,622.91
1990	10,494.39	39.00	269.09	17.33	4,662.84
1991	9,215.12	39.00	236.28	17.79	4,204.47
1992	66,252.18	39.00	1,698.76	18.26	31,026.61
1993	20,596.00	39.00	528.10	18.74	9,896.24
1995	9,666.02	39.00	247.85	19.70	4,883.64
1996	88,314.70	39.00	2,264.47	20.20	45,731.14
1997	16,692.00	39.00	428.00	20.69	8,855.76
1998	15,203.00	39.00	389.82	21.19	8,261.62
1999	2,634.16	39.00	67.54	21.70	1,465.77
2000	1,885.00	39.00	48.33	22.22	1,073.80
2001	42,860.53	39.00	1,098.98	22.74	24,988.69
2002	44,588.39	39.00	1,143.29	23.27	26,601.21
2003	1,035,918.18	39.00	26,561.86	23.80	632,277.29
2004	153,798.34	39.00	3,943.53	24.35	96,017.03
2005	359,265.22	39.00	9,211.88	24.90	229,385.52

PAWC - Water Operations
Water Operations
311.20 Pumping Equipment - Electric
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 39 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2006	2,848,943.83	39.00	73,049.45	25.46	1,859,995.90
2007	48,268.66	39.00	1,237.65	26.03	32,220.39
2008	268,051.60	39.00	6,873.08	26.61	182,917.43
2009	38,990.24	39.00	999.74	27.21	27,198.52
2010	59,098.52	39.00	1,515.34	27.81	42,138.72
2011	113,318.92	39.00	2,905.60	28.42	82,582.77
2012	917,982.92	39.00	23,537.90	29.05	683,758.59
2013	346,739.28	39.00	8,890.70	29.69	263,956.16
2014	4,382,171.57	39.00	112,362.77	30.34	3,409,596.32
2015	362,904.70	39.00	9,305.20	31.01	288,591.96
2016	555,071.29	39.00	14,232.52	31.70	451,202.90
2017	143,952.41	39.00	3,691.07	32.41	119,614.23
2018	1,672,960.48	39.00	42,896.19	33.13	1,421,278.73
2019	860,577.18	39.00	22,065.96	33.88	747,609.56
2020	2,215,902.37	39.00	56,817.70	34.65	1,968,774.91
2021	1,476,855.64	39.00	37,867.89	35.45	1,342,392.79
2022	47,798.81	39.00	1,225.60	36.28	44,459.39
2023	1,016,578.35	39.00	26,065.97	37.14	968,069.45
2024	78,795.92	39.00	2,020.40	38.04	76,855.50
Total	19,404,821.07	39.00	497,556.84	30.48	15,164,554.30

Composite Average Remaining Life ... 30.48 Years

PAWC - Water Operations
Water Operations
311.50 Pumping Equipment - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 39 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1972	183.00	39.00	4.69	9.56	44.88
1988	352.00	39.00	9.03	16.41	148.11
1989	276.12	39.00	7.08	16.87	119.42
1990	3,900.00	39.00	100.00	17.33	1,732.84
1995	501.09	39.00	12.85	19.70	253.17
1998	1,537.00	39.00	39.41	21.19	835.24
1999	6,578.18	39.00	168.67	21.70	3,660.41
2000	182,753.07	39.00	4,685.95	22.22	104,106.68
2003	4,313.37	39.00	110.60	23.80	2,632.68
2004	42,251.03	39.00	1,083.35	24.35	26,377.52
2005	95,460.52	39.00	2,447.69	24.90	60,950.13
2006	56,531.61	39.00	1,449.52	25.46	36,907.91
2007	5,931.70	39.00	152.09	26.03	3,959.54
2010	68,057.93	39.00	1,745.07	27.81	48,527.00
2011	122,987.94	39.00	3,153.52	28.42	89,629.21
2012	2,019.10	39.00	51.77	29.05	1,503.92
2013	676,135.80	39.00	17,336.72	29.69	514,710.09
2014	8,220.79	39.00	210.79	30.34	6,396.28
2016	72,769.80	39.00	1,865.88	31.70	59,152.66
2017	9,243.96	39.00	237.02	32.41	7,681.07
2018	6,611.16	39.00	169.52	33.13	5,616.57
2019	682,880.32	39.00	17,509.66	33.88	593,238.90
2020	2,605,924.48	39.00	66,818.22	34.65	2,315,299.99
2021	2,579,691.42	39.00	66,145.58	35.45	2,344,819.00
2022	5,039,120.58	39.00	129,207.52	36.28	4,687,066.55
2023	6,267,832.56	39.00	160,712.79	37.14	5,968,745.29
2024	6,458,804.40	39.00	165,609.48	38.04	6,299,750.58

PAWC - Water Operations
Water Operations
311.50 Pumping Equipment - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2025	1,944,539.28	39.00	49,859.71	38.75	1,932,132.51
Total	26,945,408.21	39.00	690,904.18	36.35	25,115,998.15

Composite Average Remaining Life ... 36.35 Years

PAWC - Water Operations
Water Operations
311.52 Pumping Equipment - SOS

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1995	500.74	39.00	12.84	19.70	252.99
1997	242.21	39.00	6.21	20.69	128.50
2007	302,979.30	39.00	7,768.66	26.03	202,245.31
2008	106,545.19	39.00	2,731.91	26.61	72,706.05
2009	90,997.69	39.00	2,333.26	27.21	63,477.48
2010	665,309.01	39.00	17,059.11	27.81	474,381.95
2011	673,316.56	39.00	17,264.43	28.42	490,689.00
2012	213,917.90	39.00	5,485.04	29.05	159,336.52
2013	1,167,611.55	39.00	29,938.60	29.69	888,847.25
2014	1,470,086.74	39.00	37,694.33	30.34	1,143,817.00
2015	1,333,851.63	39.00	34,201.14	31.01	1,060,716.09
2016	1,650,181.56	39.00	42,312.12	31.70	1,341,389.34
2017	2,025,413.90	39.00	51,933.41	32.41	1,682,975.16
2018	970,045.83	39.00	24,872.84	33.13	824,111.22
2019	325,033.26	39.00	8,334.14	33.88	282,366.28
2020	119,694.64	39.00	3,069.08	34.65	106,345.75
2021	268,274.05	39.00	6,878.78	35.45	243,848.58
2023	21,622.78	39.00	554.43	37.14	20,590.99
Total	11,405,624.54	39.00	292,450.34	30.97	9,058,225.46

Composite Average Remaining Life ... 30.97 Years

PAWC - Water Operations
Water Operations
311.53 Pumping Equipment - Water Treatment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 39 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1910	137.73	0.00	0.00	0.00	0.00
1917	133.00	0.00	0.00	0.00	0.00
1919	8,727.40	0.00	0.00	0.00	0.00
1928	134.45	0.00	0.00	0.00	0.00
1929	274.09	0.00	0.00	0.00	0.00
1930	10.36	0.00	0.00	0.00	0.00
1931	3,609.84	0.00	0.00	0.00	0.00
1937	1,084.39	0.00	0.00	0.00	0.00
1939	195.67	0.00	0.00	0.00	0.00
1941	233.57	0.00	0.00	0.00	0.00
1942	901.65	0.00	0.00	0.00	0.00
1944	22.40	0.00	0.00	0.00	0.00
1945	612.26	0.00	0.00	0.00	0.00
1946	36.51	0.00	0.00	0.00	0.00
1947	175.93	0.00	0.00	0.00	0.00
1948	1,721.87	39.00	44.15	0.50	22.08
1950	176.72	39.00	4.53	1.14	5.18
1951	14,946.31	39.00	383.24	1.50	576.37
1952	33,162.46	39.00	850.31	1.86	1,583.06
1953	14,955.45	39.00	383.47	2.23	855.61
1954	9,781.62	39.00	250.81	2.60	651.20
1955	2,307.03	39.00	59.15	2.97	175.51
1956	984.21	39.00	25.24	3.34	84.33
1957	15,308.52	39.00	392.52	3.72	1,458.42
1958	2,821.39	39.00	72.34	4.09	296.14
1959	30,581.95	39.00	784.15	4.47	3,505.93
1960	74,879.69	39.00	1,919.98	4.85	9,317.01

PAWC - Water Operations
Water Operations
311.53 Pumping Equipment - Water Treatment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 39 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1961	172,778.06	39.00	4,430.18	5.23	23,185.41
1962	3,846.01	39.00	98.62	5.62	554.09
1963	21,459.38	39.00	550.24	6.00	3,303.16
1964	32,655.26	39.00	837.31	6.39	5,350.71
1965	199,549.50	39.00	5,116.63	6.78	34,693.03
1966	11,660.13	39.00	298.98	7.17	2,144.07
1967	28,880.66	39.00	740.53	7.57	5,602.41
1968	95,517.72	39.00	2,449.16	7.96	19,496.15
1969	307,919.76	39.00	7,895.34	8.36	65,993.72
1970	5,567.23	39.00	142.75	8.76	1,250.15
1971	51,979.05	39.00	1,332.79	9.16	12,207.62
1972	423,176.07	39.00	10,850.61	9.56	103,774.79
1973	5,691,249.88	39.00	145,928.70	9.97	1,454,954.16
1974	22,347.74	39.00	573.02	10.38	5,947.69
1975	112,278.57	39.00	2,878.92	10.79	31,066.05
1976	70,968.42	39.00	1,819.69	11.21	20,390.13
1977	19,388.63	39.00	497.14	11.62	5,777.65
1978	9,787.72	39.00	250.97	12.04	3,022.01
1979	173,726.38	39.00	4,454.50	12.46	55,519.07
1980	146,097.95	39.00	3,746.08	12.89	48,282.50
1981	505,230.20	39.00	12,954.55	13.32	172,518.83
1982	684,624.45	39.00	17,554.38	13.75	241,348.62
1983	229,348.41	39.00	5,880.70	14.18	83,408.54
1984	311,320.96	39.00	7,982.55	14.62	116,716.72
1985	643,142.22	39.00	16,490.74	15.06	248,402.34
1986	407,620.75	39.00	10,451.76	15.51	162,089.56
1987	667,775.86	39.00	17,122.37	15.96	273,228.03

PAWC - Water Operations
Water Operations
311.53 Pumping Equipment - Water Treatment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1988	283,751.47	39.00	7,275.64	16.41	119,395.31
1989	418,946.17	39.00	10,742.15	16.87	181,191.25
1990	4,401,706.59	39.00	112,863.66	17.33	1,955,753.72
1991	1,019,819.94	39.00	26,149.09	17.79	465,301.26
1992	985,449.05	39.00	25,267.79	18.26	461,496.42
1993	1,214,131.28	39.00	31,131.40	18.74	583,382.06
1994	342,251.03	39.00	8,775.62	19.22	168,661.83
1995	3,082,931.12	39.00	79,049.09	19.70	1,557,614.84
1996	1,060,183.76	39.00	27,184.05	20.20	548,984.65
1997	3,345,175.84	39.00	85,773.28	20.69	1,774,747.16
1998	1,034,657.53	39.00	26,529.54	21.19	562,254.16
1999	3,189,091.46	39.00	81,771.14	21.70	1,774,563.09
2000	2,409,237.91	39.00	61,775.00	22.22	1,372,440.77
2001	2,395,199.84	39.00	61,415.05	22.74	1,396,457.35
2002	1,311,520.09	39.00	33,628.54	23.27	782,446.27
2003	2,219,803.79	39.00	56,917.74	23.80	1,354,867.17
2004	383,622.14	39.00	9,836.41	24.35	239,497.13
2005	64,788.35	39.00	1,661.23	24.90	41,366.40
2006	234,701.03	39.00	6,017.94	25.46	153,229.75
2007	1,472,539.40	39.00	37,757.22	26.03	982,952.28
2008	315,637.75	39.00	8,093.23	26.61	215,390.05
2009	166,046.08	39.00	4,257.57	27.21	115,829.17
2010	222,616.68	39.00	5,708.09	27.81	158,731.25
2011	329,273.84	39.00	8,442.87	28.42	239,962.98
2012	460,640.66	39.00	11,811.24	29.05	343,107.70
2013	203,020.58	39.00	5,205.63	29.69	154,549.93
2014	121,523.26	39.00	3,115.96	30.34	94,552.50

PAWC - Water Operations
Water Operations
311.53 Pumping Equipment - Water Treatment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2015	386,471.90	39.00	9,909.48	31.01	307,333.25
2016	297,614.05	39.00	7,631.09	31.70	241,922.66
2017	66,657.04	39.00	1,709.15	32.41	55,387.27
2018	891,894.73	39.00	22,868.97	33.13	757,717.25
2019	112,378.15	39.00	2,881.48	33.88	97,626.32
2020	142,298.54	39.00	3,648.66	34.65	126,428.76
2021	438,896.41	39.00	11,253.69	35.45	398,936.34
2022	118,121.94	39.00	3,028.75	36.28	109,869.45
2023	587,754.33	39.00	15,070.54	37.14	559,707.98
2024	25,792.73	39.00	661.35	38.04	25,157.56
2025	1,130,062.20	39.00	28,975.80	38.75	1,122,852.05
Total	48,154,022.10	32.64	1,234,294.20	20.11	24,820,423.39

Composite Average Remaining Life ... 20.11 Years

PAWC - Water Operations
Water Operations
311.54 Pumping Equipment - Transmission
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1999	35,292.32	39.00	904.93	21.70	19,638.34
2000	475,480.08	39.00	12,191.73	22.22	270,860.86
2001	36,531.40	39.00	936.70	22.74	21,298.66
2002	538,352.70	39.00	13,803.84	23.27	321,178.51
2003	70,588.30	39.00	1,809.95	23.80	43,083.88
2004	268,409.81	39.00	6,882.27	24.35	167,569.52
2005	16,038.24	39.00	411.23	24.90	10,240.18
2006	189,538.24	39.00	4,859.93	25.46	123,744.23
2007	1,098,486.35	39.00	28,166.17	26.03	733,263.68
2008	658,548.44	39.00	16,885.77	26.61	449,391.05
2009	1,314,447.17	39.00	33,703.59	27.21	916,922.10
2010	291,357.56	39.00	7,470.67	27.81	207,745.22
2011	161,831.12	39.00	4,149.49	28.42	117,936.73
2012	145,779.02	39.00	3,737.90	29.05	108,583.35
2013	243,526.60	39.00	6,244.24	29.69	185,385.24
2015	53,358.27	39.00	1,368.15	31.01	42,431.99
2016	287,116.14	39.00	7,361.91	31.70	233,389.18
2017	135,483.94	39.00	3,473.93	32.41	112,577.54
2018	157,143.96	39.00	4,029.31	33.13	133,503.07
2019	27,912.06	39.00	715.69	33.88	24,248.06
2020	81,516.58	39.00	2,090.16	34.65	72,425.48
2021	3,000.02	39.00	76.92	35.45	2,726.88
2022	48,563.86	39.00	1,245.22	36.28	45,170.99
2023	2,922,287.54	39.00	74,930.05	37.14	2,782,842.37
2024	28,865.32	39.00	740.13	38.04	28,154.49
2025	543,332.19	39.00	13,931.52	38.75	539,865.56

PAWC - Water Operations
Water Operations
311.54 Pumping Equipment - Transmission
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	9,832,787.23	39.00	252,121.39	30.60	7,714,177.12

Composite Average Remaining Life ... *30.60 Years*

PAWC - Water Operations
Water Operations
320.10 Purification System - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 *Survivor Curve:* S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1900	24,528.59	0.00	0.00	0.00	0.00
1903	17,503.17	0.00	0.00	0.00	0.00
1905	584.13	0.00	0.00	0.00	0.00
1906	39,860.97	0.00	0.00	0.00	0.00
1907	187.12	0.00	0.00	0.00	0.00
1909	3,575.95	0.00	0.00	0.00	0.00
1910	1,630.96	0.00	0.00	0.00	0.00
1915	149.00	0.00	0.00	0.00	0.00
1920	2.00	0.00	0.00	0.00	0.00
1921	42,429.29	0.00	0.00	0.00	0.00
1923	28,824.04	0.00	0.00	0.00	0.00
1924	1,765.00	0.00	0.00	0.00	0.00
1927	254.95	50.00	5.10	0.64	3.28
1928	1,883.14	50.00	37.66	0.87	32.69
1929	51,419.23	50.00	1,028.38	1.11	1,146.50
1930	2,023.01	50.00	40.46	1.37	55.47
1931	42,462.90	50.00	849.26	1.63	1,386.85
1935	509.45	50.00	10.19	2.71	27.65
1937	50,237.31	50.00	1,004.75	3.27	3,284.85
1947	278.00	50.00	5.56	6.18	34.39
1949	14,516.83	50.00	290.34	6.80	1,973.63
1951	25,161.08	50.00	503.22	7.42	3,734.77
1952	66,404.24	50.00	1,328.08	7.74	10,276.82
1953	143,183.72	50.00	2,863.67	8.06	23,073.84
1954	40,029.75	50.00	800.59	8.38	6,708.87
1955	2,412.48	50.00	48.25	8.71	420.04
1956	179.54	50.00	3.59	9.03	32.44

PAWC - Water Operations
Water Operations
320.10 Purification System - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1957	1,360.46	50.00	27.21	9.37	254.86
1958	2,147.31	50.00	42.95	9.70	416.68
1959	27,652.04	50.00	553.04	10.04	5,553.39
1961	80,918.05	50.00	1,618.36	10.73	17,366.98
1962	5,584.68	50.00	111.69	11.08	1,237.77
1963	3,247.71	50.00	64.95	11.44	742.85
1964	977.76	50.00	19.56	11.80	230.66
1965	219,097.73	50.00	4,381.95	12.16	53,276.84
1966	310.40	50.00	6.21	12.53	77.76
1967	210.00	50.00	4.20	12.90	54.17
1968	3,546.04	50.00	70.92	13.27	941.42
1969	1,371,344.60	50.00	27,426.89	13.66	374,534.35
1970	4,526.51	50.00	90.53	14.04	1,271.24
1971	440.64	50.00	8.81	14.43	127.20
1972	822,351.90	50.00	16,447.04	14.83	243,920.68
1973	30,712.90	50.00	614.26	15.23	9,357.03
1974	84.31	50.00	1.69	15.64	26.37
1975	192,183.99	50.00	3,843.68	16.05	61,710.18
1976	27,249.07	50.00	544.98	16.47	8,978.51
1977	915.82	50.00	18.32	16.90	309.57
1979	6,225.74	50.00	124.51	17.77	2,212.99
1980	1,374.20	50.00	27.48	18.22	500.73
1981	8,541.92	50.00	170.84	18.67	3,189.93
1982	2,891,251.18	50.00	57,825.02	19.13	1,106,354.40
1983	137,453.13	50.00	2,749.06	19.60	53,884.26
1984	5,629.18	50.00	112.58	20.08	2,260.34
1985	1,681,519.27	50.00	33,630.38	20.56	691,476.69

PAWC - Water Operations
Water Operations
320.10 Purification System - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1986	185,751.99	50.00	3,715.04	21.05	78,214.80
1987	27,820.42	50.00	556.41	21.55	11,993.22
1988	5,166,890.45	50.00	103,337.81	22.06	2,280,129.15
1989	3,595,432.25	50.00	71,908.64	22.58	1,623,996.38
1990	18,873,142.77	50.00	377,462.85	23.11	8,724,324.73
1991	5,453,527.70	50.00	109,070.55	23.65	2,579,720.21
1992	10,197,318.51	50.00	203,946.37	24.20	4,935,672.44
1993	23,935,155.32	50.00	478,703.10	24.76	11,852,858.96
1994	1,782,566.96	50.00	35,651.34	25.33	903,075.14
1995	4,832,804.62	50.00	96,656.09	25.91	2,504,589.40
1996	378,584.90	50.00	7,571.70	26.51	200,692.33
1997	9,241,333.14	50.00	184,826.66	27.11	5,010,789.74
1998	910,686.40	50.00	18,213.73	27.73	505,034.50
1999	9,760,277.34	50.00	195,205.54	28.36	5,535,719.02
2000	355,621.35	50.00	7,112.43	29.00	206,272.16
2001	1,117,241.93	50.00	22,344.84	29.66	662,711.12
2003	2,316.85	50.00	46.34	31.01	1,437.08
2004	38,706.38	50.00	774.13	31.71	24,549.80
2005	80,991.72	50.00	1,619.83	32.43	52,526.47
2006	5,579,298.20	50.00	111,585.96	33.16	3,699,803.94
2007	172,601.60	50.00	3,452.03	33.90	117,029.40
2008	555,001.52	50.00	11,100.03	34.66	384,755.30
2009	589,732.87	50.00	11,794.66	35.44	417,998.76
2010	372,423.69	50.00	7,448.47	36.23	269,881.94
2011	9,820,334.80	50.00	196,406.69	37.04	7,275,551.12
2012	19,850,800.78	50.00	397,016.01	37.87	15,035,045.05
2013	3,632,074.02	50.00	72,641.48	38.71	2,812,222.91

PAWC - Water Operations
Water Operations
320.10 Purification System - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2014	2,103,871.60	50.00	42,077.43	39.57	1,665,177.10
2016	562,914.51	50.00	11,258.29	41.34	465,470.06
2017	371,008.06	50.00	7,420.16	42.25	313,533.11
2018	46,774,837.42	50.00	935,496.73	43.18	40,394,156.27
2019	1,284,580.92	50.00	25,691.62	44.12	1,133,498.57
2021	12,890,104.13	50.00	257,802.08	46.04	11,869,258.44
2022	144,098.02	50.00	2,881.96	47.02	135,504.99
2023	15,613,629.75	50.00	312,272.59	48.01	14,990,957.46
2024	49,467.62	50.00	989.35	49.00	48,479.12
Total	224,431,802.90	43.33	4,485,415.17	33.76	151,415,090.13

Composite Average Remaining Life ... *33.76 Years*

PAWC - Water Operations
Water Operations
320.20 Chemical Treatment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 42 *Survivor Curve:* R0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1917	978.00	0.00	0.00	0.00	0.00
1928	456.40	0.00	0.00	0.00	0.00
1929	45.50	0.00	0.00	0.00	0.00
1935	33.55	0.00	0.00	0.00	0.00
1940	8.13	0.00	0.00	0.00	0.00
1945	29.17	42.00	0.69	1.95	1.35
1947	7,302.60	42.00	173.87	2.88	501.05
1949	80.97	42.00	1.93	3.78	7.29
1950	204.80	42.00	4.88	4.22	20.59
1951	48.93	42.00	1.16	4.65	5.42
1953	62.36	42.00	1.48	5.49	8.15
1955	10,196.33	42.00	242.77	6.31	1,531.28
1957	562.75	42.00	13.40	7.11	95.26
1958	39,891.80	42.00	949.79	7.51	7,131.05
1962	6,154.17	42.00	146.53	9.09	1,332.11
1963	823.57	42.00	19.61	9.49	186.07
1964	7,636.81	42.00	181.83	9.89	1,797.75
1965	37,339.44	42.00	889.02	10.29	9,146.35
1966	1,688.98	42.00	40.21	10.69	429.91
1967	688.22	42.00	16.39	11.10	181.82
1968	59,108.21	42.00	1,407.32	11.50	16,191.16
1969	2,258.71	42.00	53.78	11.92	640.84
1970	8,536.97	42.00	203.26	12.33	2,506.49
1971	15,632.78	42.00	372.20	12.75	4,745.82
1972	32,603.76	42.00	776.27	13.17	10,225.95
1973	257,616.10	42.00	6,133.64	13.60	83,419.13
1974	31,941.16	42.00	760.49	14.03	10,670.95

PAWC - Water Operations
Water Operations
320.20 Chemical Treatment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 42 **Survivor Curve:** R0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1975	42,769.93	42.00	1,018.32	14.47	14,732.57
1976	1,073,863.59	42.00	25,567.85	14.91	381,169.65
1977	28,840.00	42.00	686.66	15.35	10,542.72
1978	51,727.94	42.00	1,231.60	15.80	19,464.35
1979	20,509.89	42.00	488.32	16.26	7,939.92
1980	61,671.01	42.00	1,468.34	16.72	24,551.28
1981	192,581.16	42.00	4,585.21	17.19	78,803.08
1982	7,527.22	42.00	179.22	17.66	3,164.61
1983	79,951.11	42.00	1,903.57	18.13	34,520.72
1984	292,693.25	42.00	6,968.80	18.62	129,736.62
1985	978,744.46	42.00	23,303.14	19.10	445,204.17
1986	2,083,104.19	42.00	49,597.07	19.60	972,007.98
1987	719,004.40	42.00	17,118.93	20.10	344,042.25
1988	111,285.48	42.00	2,649.62	20.60	54,586.17
1989	1,052,756.10	42.00	25,065.29	21.11	529,158.40
1990	436,377.41	42.00	10,389.80	21.63	224,699.38
1991	706,070.04	42.00	16,810.97	22.15	372,322.20
1992	4,299,099.40	42.00	102,358.18	22.67	2,320,809.24
1993	99,614.98	42.00	2,371.75	23.21	55,037.18
1994	739,039.18	42.00	17,595.94	23.74	417,756.08
1995	4,638,977.20	42.00	110,450.40	24.28	2,682,121.24
1996	2,154,720.70	42.00	51,302.21	24.83	1,273,827.74
1997	3,334,739.32	42.00	79,397.52	25.38	2,015,178.56
1998	2,072,021.04	42.00	49,333.19	25.94	1,279,559.49
1999	7,194,288.92	42.00	171,290.36	26.50	4,538,709.74
2000	67,552.81	42.00	1,608.38	27.06	43,524.86
2001	2,457,933.54	42.00	58,521.46	27.63	1,616,962.36

PAWC - Water Operations
Water Operations
320.20 Chemical Treatment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *42* ***Survivor Curve:*** *R0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2002	77,713.84	42.00	1,850.31	28.20	52,182.83
2003	1,964,206.88	42.00	46,766.22	28.78	1,345,854.87
2004	1,990,696.83	42.00	47,396.93	29.36	1,391,448.45
2005	2,161,553.64	42.00	51,464.89	29.94	1,540,823.85
2006	499,472.13	42.00	11,892.04	30.52	363,000.47
2007	1,947,345.46	42.00	46,364.76	31.11	1,442,506.40
2008	1,350,615.98	42.00	32,157.10	31.70	1,019,452.63
2009	82,919.55	42.00	1,974.25	32.29	63,756.94
2010	438,539.91	42.00	10,441.29	32.89	343,394.30
2011	1,033,930.77	42.00	24,617.08	33.48	824,279.72
2012	685,575.24	42.00	16,323.01	34.08	556,309.25
2013	1,516,285.09	42.00	36,101.56	34.68	1,251,999.84
2014	304,829.68	42.00	7,257.75	35.28	256,057.31
2015	3,645,945.28	42.00	86,807.09	35.88	3,114,832.10
2016	4,980,688.04	42.00	118,586.27	36.49	4,326,722.87
2017	2,403,250.89	42.00	57,219.51	37.09	2,122,327.05
2018	1,114,876.03	42.00	26,544.32	37.70	1,000,660.24
2019	3,459,004.02	42.00	82,356.17	38.31	3,154,794.11
2020	7,834,644.60	42.00	186,536.73	38.92	7,259,495.38
2021	11,081,791.67	42.00	263,848.75	39.53	10,429,838.76
2022	13,412,801.43	42.00	319,348.25	40.14	12,820,076.13
2023	17,240,492.29	42.00	410,482.56	40.76	16,731,660.04
2024	10,794,071.88	42.00	256,998.36	41.38	10,634,551.09
2025	36,091,518.62	42.00	859,310.68	41.84	35,957,800.27

PAWC - Water Operations
Water Operations
320.20 Chemical Treatment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *42* ***Survivor Curve:*** *R0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	161,632,164.19	39.31	3,848,298.50	35.87	138,044,733.32

Composite Average Remaining Life ... *35.87 Years*

PAWC - Water Operations
Water Operations
320.30 Granular Activated Carbon
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 11 **Survivor Curve:** L0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1992	755.89	11.00	68.71	1.93	132.60
1994	3,127.19	11.00	284.25	2.17	617.62
1995	22,529.51	11.00	2,047.85	2.28	4,670.38
1996	19,021.10	11.00	1,728.95	2.38	4,119.25
1998	24,638.62	11.00	2,239.56	2.59	5,790.92
1999	9,019.00	11.00	819.79	2.70	2,210.98
2000	242,357.48	11.00	22,029.42	2.82	62,069.12
2001	565,915.16	11.00	51,439.64	2.95	151,688.02
2002	259,574.29	11.00	23,594.36	3.09	72,945.11
2003	11,549.71	11.00	1,049.83	3.25	3,407.91
2007	133,689.45	11.00	12,151.89	3.98	48,385.82
2008	22,525.60	11.00	2,047.50	4.20	8,589.28
2009	290,056.89	11.00	26,365.12	4.42	116,528.18
2010	252,059.62	11.00	22,911.31	4.66	106,706.60
2011	762,602.88	11.00	69,317.84	4.91	340,183.85
2012	382,409.40	11.00	34,759.63	5.17	179,738.82
2013	1,278,638.81	11.00	116,223.63	5.45	633,171.69
2014	648,647.47	11.00	58,959.70	5.74	338,378.41
2015	2,088.22	11.00	189.81	6.05	1,147.50
2016	110,250.14	11.00	10,021.34	6.37	63,812.22
2017	406,505.55	11.00	36,949.88	6.71	247,806.87
2018	1,504,916.77	11.00	136,791.48	7.06	966,188.94
2019	1,347,102.38	11.00	122,446.72	7.44	910,942.93
2020	874,697.64	11.00	79,506.84	7.85	624,161.30
2021	768,470.48	11.00	69,851.18	8.32	580,958.98
2022	3,315,089.96	11.00	301,329.66	8.86	2,668,375.23
2023	7,727,540.14	11.00	702,405.38	9.47	6,654,571.27

PAWC - Water Operations
Water Operations
320.30 Granular Activated Carbon

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *11* ***Survivor Curve:*** *L0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2024	2,226,099.32	11.00	202,344.36	10.18	2,059,877.07
2025	799,177.36	11.00	72,642.32	10.78	783,081.23
Total	24,011,056.03	11.00	2,182,517.92	8.08	17,640,258.09

Composite Average Remaining Life ... 8.08 Years

PAWC - Water Operations
Water Operations
320.37 Waste Handling and Treatment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *30* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1991	6,051,057.45	30.00	201,701.62	4.43	893,528.60
1997	592,975.99	30.00	19,765.84	7.06	139,558.74
1999	1,599,696.19	30.00	53,323.13	8.19	436,472.43
2000	700,705.10	30.00	23,356.80	8.79	205,390.85
2002	3,162.77	30.00	105.43	10.09	1,063.46
2003	256,272.33	30.00	8,542.40	10.77	92,027.09
2004	25,393.53	30.00	846.45	11.48	9,717.21
2005	13,991.19	30.00	466.37	12.21	5,693.53
2013	15,021.77	30.00	500.72	18.70	9,362.84
2014	585,687.37	30.00	19,522.88	19.58	382,286.19
2015	1,027,405.88	30.00	34,246.81	20.48	701,337.06
2016	3,708,242.13	30.00	123,607.89	21.39	2,643,788.16
2017	16,493.28	30.00	549.78	22.31	12,265.47
2023	749,990.01	30.00	24,999.63	28.04	700,942.08
2025	296,401.16	30.00	9,880.02	29.75	293,968.56
Total	15,642,496.15	30.00	521,415.77	12.52	6,527,402.28

Composite Average Remaining Life ... 12.52 Years

PAWC - Water Operations
Water Operations
330.00 Distribution Reservoirs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1906	5,126.82	65.00	78.87	3.85	303.79
1907	47,398.97	65.00	729.21	4.20	3,059.98
1911	21,166.48	65.00	325.64	5.53	1,800.43
1912	4,869.35	65.00	74.91	5.87	439.51
1922	37,493.82	65.00	576.83	9.22	5,316.84
1923	14,266.34	65.00	219.48	9.56	2,097.70
1924	1,161.00	65.00	17.86	9.90	176.75
1929	2,421.17	65.00	37.25	11.61	432.53
1931	5,400.00	65.00	83.08	12.31	1,022.41
1933	65.00	65.00	1.00	13.01	13.01
1935	289.70	65.00	4.46	13.71	61.12
1938	6,799.96	65.00	104.61	14.79	1,547.15
1940	15,697.76	65.00	241.50	15.52	3,747.16
1941	8,321.81	65.00	128.03	15.88	2,033.29
1943	65.00	65.00	1.00	16.62	16.62
1949	20,319.41	65.00	312.61	18.90	5,908.64
1950	11,222.42	65.00	172.65	19.29	3,330.52
1951	84,607.38	65.00	1,301.65	19.68	25,620.20
1952	1,055.33	65.00	16.24	20.08	325.98
1953	767,149.49	65.00	11,802.29	20.48	241,667.86
1954	134,829.51	65.00	2,074.30	20.88	43,306.16
1955	59,098.74	65.00	909.21	21.28	19,350.18
1956	48,733.30	65.00	749.74	21.69	16,262.00
1957	84,603.91	65.00	1,301.60	22.10	28,767.43
1958	76,375.43	65.00	1,175.01	22.52	26,456.76
1959	167,086.54	65.00	2,570.56	22.93	58,955.15
1960	24,594.73	65.00	378.38	23.36	8,837.72

PAWC - Water Operations
Water Operations
330.00 Distribution Reservoirs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1961	401,860.35	65.00	6,182.46	23.78	147,034.59
1962	187,270.36	65.00	2,881.08	24.21	69,757.13
1963	15,182.04	65.00	233.57	24.65	5,756.51
1964	45,660.48	65.00	702.47	25.08	17,620.24
1965	55,714.21	65.00	857.14	25.53	21,878.71
1966	395,068.78	65.00	6,077.98	25.97	157,851.31
1967	808,216.49	65.00	12,434.09	26.42	328,528.59
1968	283,136.03	65.00	4,355.93	26.88	117,070.56
1969	84,459.71	65.00	1,299.38	27.34	35,519.56
1970	69,969.80	65.00	1,076.46	27.80	29,924.87
1971	377,069.90	65.00	5,801.07	28.27	163,988.54
1972	173,525.11	65.00	2,669.61	28.74	76,729.53
1973	3,537,472.80	65.00	54,422.61	29.22	1,590,291.50
1974	695,684.14	65.00	10,702.82	29.71	317,930.72
1975	390,540.59	65.00	6,008.31	30.19	181,415.90
1976	400,438.60	65.00	6,160.59	30.69	189,062.90
1977	199,857.87	65.00	3,074.73	31.19	95,897.02
1978	447,875.12	65.00	6,890.38	31.69	218,390.42
1979	304,411.32	65.00	4,683.25	32.21	150,828.13
1980	1,077.30	65.00	16.57	32.72	542.36
1981	54,685.69	65.00	841.32	33.25	27,971.07
1982	1,048,448.37	65.00	16,129.96	33.78	544,827.11
1983	1,392,338.73	65.00	21,420.58	34.31	734,992.75
1984	32,388.90	65.00	498.29	34.86	17,368.46
1985	1,753,830.33	65.00	26,981.98	35.40	955,275.30
1986	1,780,510.58	65.00	27,392.45	35.96	985,074.48
1987	240,488.37	65.00	3,699.82	36.53	135,136.41

PAWC - Water Operations
Water Operations
330.00 Distribution Reservoirs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1988	3,098,511.15	65.00	47,669.36	37.09	1,768,288.15
1989	5,060,137.70	65.00	77,848.20	37.67	2,932,783.70
1990	6,134,740.75	65.00	94,380.54	38.26	3,610,755.03
1991	675,751.86	65.00	10,396.17	38.85	403,901.73
1992	1,316,505.21	65.00	20,253.91	39.45	799,028.54
1993	7,642,763.40	65.00	117,580.87	40.06	4,710,316.60
1994	2,029,447.84	65.00	31,222.25	40.68	1,269,989.69
1995	1,586,740.83	65.00	24,411.38	41.30	1,008,244.38
1996	3,347,830.45	65.00	51,505.04	41.93	2,159,838.73
1997	2,282,069.17	65.00	35,108.72	42.58	1,494,877.58
1998	1,216,261.83	65.00	18,711.70	43.23	808,874.33
1999	5,103,282.67	65.00	78,511.97	43.89	3,445,940.03
2000	3,636,701.15	65.00	55,949.20	44.56	2,493,169.71
2001	5,035,983.93	65.00	77,476.61	45.24	3,505,047.73
2002	2,278,154.48	65.00	35,048.50	45.93	1,609,788.03
2003	2,411,912.94	65.00	37,106.32	46.63	1,730,214.05
2004	1,520,307.39	65.00	23,389.32	47.34	1,107,230.48
2005	3,827,706.90	65.00	58,887.74	48.06	2,830,009.39
2006	2,882,960.94	65.00	44,353.20	48.79	2,163,971.55
2007	1,535,575.60	65.00	23,624.22	49.53	1,170,088.94
2008	236,283.67	65.00	3,635.13	50.28	182,785.70
2009	24,847.54	65.00	382.27	51.04	19,512.88
2010	797,791.47	65.00	12,273.70	51.82	636,043.98
2011	249,955.27	65.00	3,845.46	52.61	202,295.25
2012	1,178,046.53	65.00	18,123.78	53.41	967,935.37
2013	4,262,135.79	65.00	65,571.26	54.22	3,555,174.73
2014	6,070,680.40	65.00	93,395.00	55.04	5,140,518.22

PAWC - Water Operations
Water Operations
330.00 Distribution Reservoirs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2015	376,902.04	65.00	5,798.49	55.88	324,004.09
2016	8,407,763.94	65.00	129,350.10	56.72	7,337,333.24
2017	5,267,135.15	65.00	81,032.77	57.59	4,666,473.17
2018	3,561,538.40	65.00	54,792.85	58.46	3,203,238.49
2019	3,423,573.89	65.00	52,670.32	59.35	3,126,036.81
2021	2,281,411.56	65.00	35,098.61	61.17	2,147,001.80
2022	2,654,127.19	65.00	40,832.69	62.10	2,535,722.02
2023	2,840,628.70	65.00	43,701.94	63.05	2,755,414.01
2024	6,704,772.26	65.00	103,150.25	64.01	6,602,857.51
2025	4,708,226.88	65.00	72,434.19	64.75	4,690,309.77
Total	132,496,568.21	65.00	2,038,406.88	47.55	96,932,536.99

Composite Average Remaining Life ... 47.55 Years

PAWC - Water Operations
Water Operations
330.10 Elevated Tanks

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1992	189,738.86	65.00	2,919.06	39.45	115,158.50
1994	0.01	65.00	0.00	40.68	0.01
2007	109,596.89	65.00	1,686.10	49.53	83,511.43
2008	452,291.74	65.00	6,958.33	50.28	349,886.49
2009	610,424.47	65.00	9,391.14	51.04	479,368.89
2010	876,241.28	65.00	13,480.62	51.82	698,588.56
2011	1.21	65.00	0.02	52.61	0.98
2012	70,427.57	65.00	1,083.50	53.41	57,866.42
2013	7,305,295.42	65.00	112,389.06	54.22	6,093,565.04
2014	402,306.06	65.00	6,189.32	55.04	340,663.90
2015	75,692.00	65.00	1,164.49	55.88	65,068.68
2017	22,485.50	65.00	345.93	57.59	19,921.26
2018	41,920.13	65.00	644.92	58.46	37,702.86
2019	3,889.76	65.00	59.84	59.35	3,551.71
2021	3,743,807.08	65.00	57,596.98	61.17	3,523,240.03
2023	73,266.92	65.00	1,127.18	63.05	71,069.02
2024	3,546,697.40	65.00	54,564.53	64.01	3,492,786.43
Total	17,524,082.30	65.00	269,601.02	57.24	15,431,950.20

Composite Average Remaining Life ... 57.24 Years

PAWC - Water Operations
Water Operations
330.20 Ground Level Facilities

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2004	411,560.09	65.00	6,331.69	47.34	299,736.67
2007	729,975.76	65.00	11,230.39	49.53	556,232.18
2008	37,653.40	65.00	579.28	50.28	29,128.14
2009	21,769.28	65.00	334.91	51.04	17,095.51
2010	13,139.81	65.00	202.15	51.82	10,475.79
2011	261,613.14	65.00	4,024.81	52.61	211,730.26
2012	1,944,284.21	65.00	29,912.04	53.41	1,597,510.29
2013	5,126,495.63	65.00	78,869.09	54.22	4,276,163.08
2014	4,119,155.97	65.00	63,371.57	55.04	3,488,010.39
2015	141,079.99	65.00	2,170.46	55.88	121,279.51
2016	1,686,605.76	65.00	25,947.76	56.72	1,471,876.30
2017	150,532.79	65.00	2,315.89	57.59	133,366.09
2018	115,120.43	65.00	1,771.08	58.46	103,539.02
2019	33,498.57	65.00	515.36	59.35	30,587.27
2021	3,736,874.95	65.00	57,490.33	61.17	3,516,716.31
2023	129,755.90	65.00	1,996.24	63.05	125,863.41
2025	461,649.62	65.00	7,102.30	64.75	459,892.82
Total	19,120,765.30	65.00	294,165.35	55.92	16,449,203.04

Composite Average Remaining Life ... 55.92 Years

PAWC - Water Operations
Water Operations
330.30 Below Grade Facilities

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2007	173,959.09	65.00	2,676.29	49.53	132,554.60
2010	31,397.64	65.00	483.04	51.82	25,031.95
2011	100,934.51	65.00	1,552.84	52.61	81,688.90
2014	280,555.88	65.00	4,316.24	55.04	237,568.53
2016	231,860.11	65.00	3,567.08	56.72	202,340.94
Total	818,707.23	65.00	12,595.48	53.92	679,184.93

Composite Average Remaining Life ... 53.92 Years

PAWC - Water Operations
Water Operations
330.40 Clearwell

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1959	5,050.00	65.00	77.69	22.93	1,781.85
1977	63,215.82	65.00	972.55	31.19	30,332.60
1978	7,120.73	65.00	109.55	31.69	3,472.17
1986	137,850.00	65.00	2,120.77	35.96	76,266.05
1987	14,509.00	65.00	223.22	36.53	8,152.97
2012	12,768,982.03	65.00	196,445.70	53.41	10,491,562.93
2017	19,400.00	65.00	298.46	57.59	17,187.63
2018	32,063.64	65.00	493.29	58.46	28,837.96
2019	5,254.37	65.00	80.84	59.35	4,797.72
2020	24,663.00	65.00	379.43	60.25	22,861.35
Total	13,078,108.59	65.00	201,201.49	53.11	10,685,253.23

Composite Average Remaining Life ... 53.11 Years

PAWC - Water Operations
Water Operations
331.00 Mains and Accessories

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 90 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1901	201,565.27	90.00	2,239.61	12.11	27,111.53
1902	186,794.01	90.00	2,075.49	12.41	25,757.36
1903	314,574.95	90.00	3,495.27	12.72	44,450.78
1904	96,764.79	90.00	1,075.16	13.02	13,998.01
1905	503,911.03	90.00	5,599.00	13.33	74,642.46
1906	289,932.40	90.00	3,221.47	13.65	43,961.69
1907	1,720,476.62	90.00	19,116.38	13.96	266,958.66
1908	501,194.69	90.00	5,568.82	14.29	79,561.12
1909	330,561.01	90.00	3,672.89	14.61	53,670.44
1910	276,159.81	90.00	3,068.44	14.94	45,849.09
1911	145,063.03	90.00	1,611.81	15.28	24,621.75
1912	253,641.87	90.00	2,818.24	15.61	44,003.40
1913	98,121.30	90.00	1,090.24	15.95	17,391.97
1914	454,814.70	90.00	5,053.49	16.30	82,368.99
1915	267,320.77	90.00	2,970.23	16.65	49,458.01
1916	1,137,305.72	90.00	12,636.71	17.01	214,926.94
1917	135,710.15	90.00	1,507.89	17.37	26,192.31
1918	79,057.45	90.00	878.41	17.74	15,580.93
1919	132,888.61	90.00	1,476.54	18.11	26,740.61
1920	260,069.17	90.00	2,889.65	18.49	53,425.85
1921	255,140.94	90.00	2,834.90	18.87	53,501.97
1922	224,020.49	90.00	2,489.11	19.26	47,944.97
1923	1,707,825.13	90.00	18,975.81	19.66	373,020.53
1924	928,528.11	90.00	10,316.96	20.06	206,953.32
1925	707,304.90	90.00	7,858.93	20.47	160,852.17
1926	1,394,281.38	90.00	15,491.99	20.88	323,496.11
1927	242,744.23	90.00	2,697.15	21.30	57,454.20

PAWC - Water Operations
Water Operations
331.00 Mains and Accessories

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 90 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1928	375,190.70	90.00	4,168.78	21.73	90,580.65
1929	197,307.15	90.00	2,192.30	22.16	48,583.98
1930	159,481.51	90.00	1,772.01	22.60	40,048.31
1931	234,610.81	90.00	2,606.78	23.05	60,080.62
1932	70,331.37	90.00	781.46	23.50	18,364.55
1933	40,220.73	90.00	446.90	23.96	10,707.37
1934	82,301.83	90.00	914.46	24.42	22,335.76
1935	139,100.97	90.00	1,545.56	24.90	38,480.08
1936	108,338.72	90.00	1,203.76	25.38	30,546.40
1937	171,572.70	90.00	1,906.36	25.86	49,300.38
1938	80,668.86	90.00	896.32	26.35	23,620.50
1939	165,937.83	90.00	1,843.75	26.85	49,506.74
1940	127,479.98	90.00	1,416.44	27.36	38,752.44
1941	119,408.34	90.00	1,326.76	27.87	36,978.09
1942	94,010.03	90.00	1,044.55	28.39	29,654.45
1943	81,075.53	90.00	900.84	28.91	26,047.40
1944	43,384.73	90.00	482.05	29.45	14,194.59
1945	235,639.99	90.00	2,618.22	29.98	78,505.22
1946	324,469.22	90.00	3,605.21	30.53	110,062.26
1947	286,425.99	90.00	3,182.51	31.08	98,910.87
1948	285,196.03	90.00	3,168.84	31.64	100,251.95
1949	121,410.74	90.00	1,349.01	32.20	43,443.40
1950	139,592.23	90.00	1,551.02	32.77	50,834.06
1951	442,675.25	90.00	4,918.61	33.35	164,042.16
1952	409,484.63	90.00	4,549.82	33.93	154,395.27
1953	954,381.29	90.00	10,604.22	34.52	366,095.07
1954	1,294,567.10	90.00	14,384.06	35.12	505,151.12

PAWC - Water Operations
Water Operations
331.00 Mains and Accessories

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *90* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1955	2,801,411.63	90.00	31,126.75	35.72	1,111,853.33
1956	1,490,629.92	90.00	16,562.53	36.33	601,676.67
1957	2,194,406.70	90.00	24,382.26	36.94	900,704.18
1958	1,886,696.86	90.00	20,963.27	37.56	787,464.42
1959	2,114,036.65	90.00	23,489.26	38.19	897,051.10
1960	2,873,719.32	90.00	31,930.17	38.82	1,239,575.94
1961	3,655,301.23	90.00	40,614.40	39.46	1,602,597.30
1962	1,417,004.90	90.00	15,744.48	40.10	631,383.88
1963	2,031,623.30	90.00	22,573.56	40.75	919,887.45
1964	4,874,891.42	90.00	54,165.38	41.40	2,242,716.89
1965	4,685,869.74	90.00	52,065.14	42.06	2,190,112.23
1966	3,999,595.79	90.00	44,439.89	42.73	1,898,924.95
1967	5,560,147.41	90.00	61,779.33	43.40	2,681,505.65
1968	5,500,482.70	90.00	61,116.39	44.08	2,694,093.01
1969	4,907,127.70	90.00	54,523.56	44.76	2,440,661.58
1970	3,773,897.91	90.00	41,932.14	45.45	1,905,847.30
1971	5,387,942.71	90.00	59,865.94	46.14	2,762,410.16
1972	8,233,419.67	90.00	91,482.31	46.84	4,285,116.69
1973	8,234,191.03	90.00	91,490.88	47.54	4,349,812.68
1974	4,889,433.78	90.00	54,326.96	48.25	2,621,356.89
1975	5,944,417.66	90.00	66,048.99	48.96	3,234,039.60
1976	9,853,869.11	90.00	109,487.28	49.69	5,439,910.71
1977	6,141,754.65	90.00	68,241.62	50.41	3,439,957.48
1978	9,865,284.23	90.00	109,614.11	51.14	5,605,280.49
1979	8,849,894.82	90.00	98,332.02	51.87	5,100,408.30
1980	12,286,934.01	90.00	136,521.29	52.61	7,181,938.73
1981	8,446,858.26	90.00	93,853.85	53.35	5,006,997.10

PAWC - Water Operations
Water Operations
331.00 Mains and Accessories

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *90* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1982	6,177,971.18	90.00	68,644.03	54.10	3,713,343.36
1983	9,996,901.04	90.00	111,076.52	54.85	6,092,213.80
1984	14,874,046.49	90.00	165,266.95	55.60	9,189,318.96
1985	18,666,517.45	90.00	207,405.45	56.37	11,690,671.00
1986	24,564,875.74	90.00	272,942.67	57.13	15,593,647.71
1987	25,996,311.13	90.00	288,847.49	57.90	16,724,640.35
1988	35,232,769.82	90.00	391,474.66	58.68	22,969,895.84
1989	32,481,987.47	90.00	360,910.46	59.45	21,457,435.07
1990	34,019,801.48	90.00	377,997.25	60.24	22,769,109.05
1991	21,950,344.88	90.00	243,892.37	61.02	14,883,027.43
1992	25,720,171.53	90.00	285,779.27	61.81	17,665,117.75
1993	36,318,226.75	90.00	403,535.28	62.61	25,264,893.75
1994	39,338,478.20	90.00	437,093.58	63.41	27,716,401.05
1995	48,577,883.48	90.00	539,753.49	64.21	34,659,879.95
1996	40,850,908.03	90.00	453,898.33	65.02	29,513,309.05
1997	36,130,254.51	90.00	401,446.70	65.83	26,428,579.81
1998	89,881,875.15	90.00	998,686.07	66.65	66,561,165.87
1999	54,492,900.30	90.00	605,475.80	67.47	40,850,227.65
2000	57,306,442.61	90.00	636,737.34	68.29	43,483,443.17
2001	63,718,962.49	90.00	707,987.46	69.12	48,934,564.03
2002	65,647,785.05	90.00	729,418.79	69.95	51,021,661.13
2003	23,971,412.37	90.00	266,348.65	70.78	18,853,483.11
2004	64,283,371.57	90.00	714,258.66	71.62	51,157,530.71
2005	59,881,119.63	90.00	665,344.82	72.47	48,214,290.37
2006	14,336,279.03	90.00	159,291.76	73.31	11,677,764.46
2007	76,339,854.23	90.00	848,219.39	74.16	62,903,482.15
2008	95,341,252.49	90.00	1,059,345.74	75.01	79,463,454.54

PAWC - Water Operations
Water Operations
331.00 Mains and Accessories

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: ***90*** ***Survivor Curve:*** ***R2***

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2009	89,645,821.33	90.00	996,063.26	75.87	75,568,970.58
2010	93,560,820.44	90.00	1,039,563.18	76.73	79,762,377.17
2011	115,190,271.60	90.00	1,279,890.08	77.59	99,305,827.47
2012	107,056,726.20	90.00	1,189,517.48	78.46	93,326,244.95
2013	142,776,190.70	90.00	1,586,399.85	79.33	125,843,806.04
2014	131,583,868.40	90.00	1,462,040.89	80.20	117,254,651.27
2015	165,061,150.00	90.00	1,834,010.16	81.08	148,692,542.63
2016	173,817,662.70	90.00	1,931,304.60	81.95	158,278,121.53
2017	117,354,754.60	90.00	1,303,939.85	82.84	108,013,132.62
2018	152,477,697.10	90.00	1,694,194.21	83.72	141,839,588.73
2019	163,473,289.50	90.00	1,816,367.29	84.61	153,680,997.29
2020	178,779,638.00	90.00	1,986,437.58	85.50	169,840,248.78
2021	127,599,506.90	90.00	1,417,770.27	86.40	122,488,994.02
2022	194,821,523.40	90.00	2,164,680.50	87.29	188,960,403.70
2023	252,569,311.50	90.00	2,806,321.67	88.19	247,496,008.64
2024	232,690,433.20	90.00	2,585,445.56	89.09	230,349,934.53
2025	150,467,541.30	90.00	1,671,859.18	89.77	150,089,172.93
Total	3,866,555,790.87	90.00	42,961,669.57	77.25	3,318,770,227.60

Composite Average Remaining Life ... 77.25 Years

PAWC - Water Operations
Water Operations
333.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 65 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1937	2,197.91	65.00	33.81	7.99	270.29
1939	4,614.27	65.00	70.99	8.48	602.13
1940	25,510.43	65.00	392.47	8.74	3,428.66
1941	43,545.66	65.00	669.93	8.99	6,020.92
1942	33,596.22	65.00	516.86	9.25	4,781.76
1943	22,143.02	65.00	340.66	9.51	3,241.03
1944	13,571.14	65.00	208.79	9.79	2,044.09
1945	25,239.97	65.00	388.31	10.07	3,909.04
1946	94,612.38	65.00	1,455.57	10.36	15,076.89
1947	188,652.71	65.00	2,902.34	10.65	30,914.71
1948	254,267.01	65.00	3,911.79	10.96	42,861.11
1949	267,214.36	65.00	4,110.98	11.27	46,346.10
1950	301,313.09	65.00	4,635.58	11.60	53,770.30
1951	393,476.96	65.00	6,053.48	11.94	72,263.74
1952	482,101.08	65.00	7,416.93	12.29	91,124.93
1953	399,050.95	65.00	6,139.24	12.65	77,644.24
1954	393,989.75	65.00	6,061.37	13.02	78,921.24
1955	581,927.88	65.00	8,952.72	13.41	120,020.21
1956	702,014.13	65.00	10,800.20	13.81	149,098.46
1957	672,668.87	65.00	10,348.73	14.22	147,120.97
1958	792,439.11	65.00	12,191.35	14.64	178,510.58
1959	973,698.31	65.00	14,979.95	15.08	225,893.37
1960	986,814.37	65.00	15,181.73	15.53	235,820.21
1961	895,168.44	65.00	13,771.80	16.00	220,339.81
1962	952,105.96	65.00	14,647.76	16.48	241,359.20
1963	780,915.42	65.00	12,014.06	16.97	203,888.36
1964	705,469.97	65.00	10,853.37	17.48	189,665.47

PAWC - Water Operations
Water Operations
333.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 65 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1965	1,047,754.25	65.00	16,119.27	18.00	290,068.32
1966	1,041,922.55	65.00	16,029.55	18.53	296,951.26
1967	1,086,446.48	65.00	16,714.53	19.07	318,762.37
1968	1,240,282.73	65.00	19,081.24	19.63	374,486.59
1969	1,340,952.58	65.00	20,630.01	20.20	416,655.03
1970	1,451,436.65	65.00	22,329.76	20.78	463,908.12
1971	1,681,872.78	65.00	25,874.92	21.37	552,942.18
1972	1,805,679.23	65.00	27,779.63	21.97	610,356.13
1973	2,371,180.92	65.00	36,479.65	22.59	824,020.04
1974	1,361,419.12	65.00	20,944.87	23.21	486,234.51
1975	816,169.78	65.00	12,556.44	23.85	299,472.87
1976	1,053,995.23	65.00	16,215.28	24.50	397,234.60
1977	1,470,741.22	65.00	22,626.75	25.15	569,123.28
1978	2,015,631.72	65.00	31,009.67	25.82	800,666.18
1979	3,070,369.11	65.00	47,236.37	26.49	1,251,477.92
1980	2,783,786.39	65.00	42,827.41	27.18	1,164,047.57
1981	2,684,129.72	65.00	41,294.23	27.87	1,150,953.23
1982	2,651,750.66	65.00	40,796.10	28.58	1,165,785.62
1983	2,979,576.38	65.00	45,839.56	29.29	1,342,416.70
1984	3,504,968.00	65.00	53,922.50	30.01	1,618,002.75
1985	3,827,505.43	65.00	58,884.60	30.73	1,809,623.69
1986	4,630,209.65	65.00	71,233.88	31.47	2,241,659.95
1987	6,508,748.72	65.00	100,134.43	32.21	3,225,633.66
1988	7,177,449.83	65.00	110,422.12	32.96	3,639,883.49
1989	7,630,698.72	65.00	117,395.17	33.72	3,958,896.92
1990	8,551,719.51	65.00	131,564.70	34.49	4,537,405.20
1991	6,270,766.05	65.00	96,473.16	35.26	3,401,874.32

PAWC - Water Operations
Water Operations
333.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 65 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1992	6,565,259.16	65.00	101,003.82	36.04	3,640,375.05
1993	9,739,876.01	65.00	149,844.00	36.83	5,518,863.23
1994	7,793,673.62	65.00	119,902.47	37.62	4,511,231.82
1995	10,800,866.82	65.00	166,166.91	38.43	6,385,270.22
1996	11,356,094.55	65.00	174,708.86	39.23	6,854,480.45
1997	10,739,826.28	65.00	165,227.82	40.05	6,617,342.12
1998	46,555,264.06	65.00	716,233.64	40.87	29,272,210.16
1999	14,034,691.60	65.00	215,917.97	41.70	9,003,483.59
2000	14,044,238.68	65.00	216,064.85	42.53	9,189,872.33
2001	16,449,277.53	65.00	253,065.39	43.37	10,976,022.52
2002	30,086,206.71	65.00	462,863.95	44.22	20,467,265.24
2003	3,399,497.48	65.00	52,299.87	45.07	2,357,143.86
2004	2,343,606.92	65.00	36,055.43	45.93	1,655,949.47
2005	18,973,711.79	65.00	291,902.77	46.79	13,658,150.73
2006	85,031.35	65.00	1,308.17	47.66	62,346.49
2007	11,932,205.58	65.00	183,572.09	48.53	8,909,131.14
2008	24,955,185.60	65.00	383,925.30	49.41	18,970,403.59
2009	22,315,576.78	65.00	343,316.00	50.29	17,266,944.65
2010	17,834,067.59	65.00	274,369.82	51.18	14,043,389.32
2011	18,577,474.01	65.00	285,806.82	52.08	14,883,845.40
2012	21,614,524.26	65.00	332,530.59	52.98	17,615,960.05
2013	22,406,855.19	65.00	344,720.28	53.88	18,572,890.36
2014	20,562,215.34	65.00	316,341.25	54.78	17,330,570.49
2015	21,443,363.69	65.00	329,897.36	55.70	18,373,822.31
2016	27,841,588.14	65.00	428,331.42	56.61	24,247,798.04
2017	25,527,905.44	65.00	392,736.36	57.53	22,593,708.65
2018	23,849,069.39	65.00	366,908.15	58.45	21,446,070.82

PAWC - Water Operations
Water Operations
333.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2019	26,310,291.14	65.00	404,773.04	59.38	24,034,268.19
2020	33,464,941.93	65.00	514,844.41	60.31	31,048,189.27
2021	30,326,971.98	65.00	466,568.03	61.24	28,572,208.96
2022	40,822,800.13	65.00	628,042.04	62.17	39,048,115.84
2023	50,698,456.27	65.00	779,974.96	63.11	49,227,149.52
2024	59,523,709.48	65.00	915,747.86	64.05	58,658,212.80
2025	27,169,829.45	65.00	417,996.68	64.76	27,071,085.65
Total	823,189,636.73	65.00	12,664,434.96	50.67	641,737,252.62

Composite Average Remaining Life ... 50.67 Years

PAWC - Water Operations
Water Operations
334.00 Meters and Installations

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *L1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1987	205,724.82	20.00	10,285.84	4.30	44,262.60
1989	9,622.00	20.00	481.08	4.70	2,262.22
1990	36,986.00	20.00	1,849.23	4.91	9,079.71
1991	695,536.05	20.00	34,775.45	5.12	178,160.21
1992	217,731.23	20.00	10,886.14	5.34	58,153.43
1993	238,158.24	20.00	11,907.45	5.57	66,282.74
1994	201,152.93	20.00	10,057.26	5.80	58,299.14
1995	128,993.29	20.00	6,449.41	6.03	38,906.35
1996	46,067.04	20.00	2,303.26	6.27	14,449.92
1997	1,089,804.62	20.00	54,488.12	6.52	355,247.61
1998	10,197,811.77	20.00	509,870.81	6.77	3,451,887.22
1999	1,407,056.30	20.00	70,350.09	7.02	494,151.64
2000	1,163,027.70	20.00	58,149.13	7.28	423,392.45
2001	3,092,176.59	20.00	154,602.83	7.54	1,165,755.42
2002	1,495,590.27	20.00	74,776.61	7.80	583,343.69
2003	53,683.22	20.00	2,684.06	8.06	21,642.61
2004	20,918.28	20.00	1,045.87	8.33	8,709.29
2005	2,325,249.66	20.00	116,257.97	8.59	999,086.42
2006	43,732.42	20.00	2,186.54	8.86	19,382.07
2007	3,091,586.22	20.00	154,573.31	9.14	1,413,036.65
2008	1,461,412.71	20.00	73,067.80	9.43	688,947.20
2009	3,749,065.09	20.00	187,445.98	9.73	1,823,962.36
2010	7,432,653.99	20.00	371,618.28	10.05	3,735,429.53
2011	12,681,090.84	20.00	634,029.95	10.40	6,592,701.32
2012	11,091,399.19	20.00	554,548.45	10.78	5,975,508.29
2013	8,835,262.69	20.00	441,746.00	11.19	4,942,979.64
2014	6,345,522.51	20.00	317,263.82	11.65	3,695,078.94

PAWC - Water Operations
Water Operations
334.00 Meters and Installations

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *L1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2015	12,063,014.16	20.00	603,127.31	12.15	7,330,997.09
2016	14,422,475.40	20.00	721,095.80	12.72	9,172,669.78
2017	15,230,996.80	20.00	761,520.30	13.34	10,162,244.15
2018	12,444,057.76	20.00	622,178.75	14.02	8,725,418.16
2019	16,703,376.19	20.00	835,136.41	14.75	12,319,144.65
2020	9,592,554.94	20.00	479,609.14	15.52	7,444,661.87
2021	6,503,137.80	20.00	325,144.28	16.34	5,312,423.78
2022	20,233,233.18	20.00	1,011,622.42	17.20	17,399,104.59
2023	35,843,404.55	20.00	1,792,100.71	18.10	32,438,465.04
2024	39,545,065.80	20.00	1,977,176.59	19.04	37,640,685.46
2025	18,090,860.22	20.00	904,507.92	19.76	17,871,432.99
Total	278,029,192.47	20.00	13,900,920.37	14.58	202,677,346.22

Composite Average Remaining Life ... 14.58 Years

PAWC - Water Operations
Water Operations
335.00 Fire Hydrants

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 60 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1901	98.72	0.00	0.00	0.00	0.00
1902	40.23	0.00	0.00	0.00	0.00
1903	45.56	0.00	0.00	0.00	0.00
1904	158.32	0.00	0.00	0.00	0.00
1905	84.22	0.00	0.00	0.00	0.00
1906	481.68	0.00	0.00	0.00	0.00
1907	298.16	0.00	0.00	0.00	0.00
1908	581.08	0.00	0.00	0.00	0.00
1909	990.21	0.00	0.00	0.00	0.00
1910	1,025.36	0.00	0.00	0.00	0.00
1911	623.13	0.00	0.00	0.00	0.00
1912	2,257.66	0.00	0.00	0.00	0.00
1913	937.10	0.00	0.00	0.00	0.00
1914	1,325.60	60.00	22.09	0.50	11.05
1915	1,674.16	60.00	27.90	0.53	14.79
1916	1,194.75	60.00	19.91	0.76	15.14
1917	1,876.84	60.00	31.28	0.93	29.12
1918	1,577.89	60.00	26.30	1.17	30.88
1919	2,851.83	60.00	47.53	1.45	69.14
1920	1,861.40	60.00	31.02	1.69	52.43
1921	1,972.68	60.00	32.88	1.95	64.09
1922	2,348.44	60.00	39.14	2.23	87.44
1923	3,800.53	60.00	63.34	2.49	157.83
1924	3,471.65	60.00	57.86	2.76	159.86
1925	4,938.45	60.00	82.31	3.05	251.24
1926	3,874.12	60.00	64.57	3.32	214.60
1927	4,590.73	60.00	76.51	3.60	275.70

PAWC - Water Operations
Water Operations
335.00 Fire Hydrants

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 60 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1928	3,161.98	60.00	52.70	3.90	205.37
1929	5,262.51	60.00	87.71	4.18	366.30
1930	4,216.06	60.00	70.27	4.46	313.49
1931	4,047.14	60.00	67.45	4.76	320.87
1932	2,612.90	60.00	43.55	5.04	219.51
1933	1,941.83	60.00	32.36	5.33	172.44
1934	2,342.75	60.00	39.05	5.62	219.61
1935	4,141.11	60.00	69.02	5.91	407.93
1936	5,438.85	60.00	90.65	6.20	561.99
1937	6,702.81	60.00	111.71	6.50	725.76
1938	5,720.24	60.00	95.34	6.79	646.90
1939	8,621.47	60.00	143.69	7.08	1,017.01
1940	4,869.01	60.00	81.15	7.38	598.70
1941	5,154.70	60.00	85.91	7.67	659.12
1942	1,733.22	60.00	28.89	7.97	230.25
1943	1,780.31	60.00	29.67	8.28	245.61
1944	1,697.53	60.00	28.29	8.58	242.79
1945	721.75	60.00	12.03	8.89	106.96
1946	2,441.77	60.00	40.70	9.21	374.79
1947	10,081.53	60.00	168.03	9.53	1,600.92
1948	7,815.31	60.00	130.25	9.85	1,283.42
1949	22,565.12	60.00	376.08	10.19	3,831.17
1950	4,986.12	60.00	83.10	10.52	874.58
1951	27,919.63	60.00	465.33	10.87	5,057.71
1952	23,110.91	60.00	385.18	11.22	4,322.91
1953	17,334.22	60.00	288.90	11.58	3,346.28
1954	26,512.99	60.00	441.88	11.95	5,280.90

PAWC - Water Operations
Water Operations
335.00 Fire Hydrants

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 60 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1955	22,209.80	60.00	370.16	12.33	4,563.42
1956	36,475.89	60.00	607.93	12.71	7,728.71
1957	51,913.21	60.00	865.22	13.11	11,340.68
1958	62,204.77	60.00	1,036.74	13.51	14,006.91
1959	79,534.91	60.00	1,325.58	13.92	18,456.04
1960	80,001.55	60.00	1,333.36	14.35	19,127.01
1961	76,758.70	60.00	1,279.31	14.78	18,902.99
1962	57,149.04	60.00	952.48	15.22	14,494.30
1963	85,378.71	60.00	1,422.97	15.67	22,295.94
1964	71,010.24	60.00	1,183.50	16.13	19,087.97
1965	105,397.01	60.00	1,756.61	16.60	29,159.08
1966	107,657.38	60.00	1,794.28	17.08	30,647.28
1967	134,556.35	60.00	2,242.60	17.57	39,402.21
1968	131,158.78	60.00	2,185.97	18.07	39,502.95
1969	128,543.00	60.00	2,142.38	18.58	39,809.44
1970	124,014.73	60.00	2,066.91	19.10	39,479.76
1971	163,654.40	60.00	2,727.57	19.63	53,547.47
1972	172,512.52	60.00	2,875.20	20.17	57,999.70
1973	229,806.15	60.00	3,830.09	20.72	79,362.26
1974	310,947.65	60.00	5,182.45	21.28	110,288.22
1975	307,853.02	60.00	5,130.87	21.85	112,112.59
1976	205,396.73	60.00	3,423.27	22.43	76,775.82
1977	299,722.85	60.00	4,995.37	23.02	114,976.16
1978	460,000.09	60.00	7,666.65	23.61	181,042.22
1979	532,498.55	60.00	8,874.95	24.22	214,943.76
1980	458,704.89	60.00	7,645.06	24.84	189,870.06
1981	271,561.47	60.00	4,526.01	25.46	115,234.81

PAWC - Water Operations
Water Operations
335.00 Fire Hydrants

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 60 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1982	427,675.02	60.00	7,127.90	26.09	185,983.26
1983	561,052.95	60.00	9,350.86	26.74	249,997.77
1984	556,745.96	60.00	9,279.07	27.39	254,119.44
1985	592,669.35	60.00	9,877.80	28.04	277,010.90
1986	765,675.43	60.00	12,761.22	28.71	366,401.47
1987	836,826.42	60.00	13,947.07	29.39	409,877.41
1988	890,464.87	60.00	14,841.04	30.07	446,273.11
1989	1,109,700.09	60.00	18,494.95	30.76	568,954.10
1990	1,171,883.50	60.00	19,531.34	31.46	614,503.56
1991	981,212.21	60.00	16,353.49	32.17	526,060.51
1992	1,345,462.07	60.00	22,424.31	32.88	737,391.55
1993	1,184,551.32	60.00	19,742.47	33.61	663,466.10
1994	1,563,970.67	60.00	26,066.11	34.33	894,955.57
1995	1,703,769.13	60.00	28,396.07	35.07	995,893.60
1996	1,614,443.49	60.00	26,907.32	35.82	963,701.52
1997	1,744,693.79	60.00	29,078.15	36.56	1,063,242.08
1998	1,616,549.49	60.00	26,942.42	37.32	1,005,580.97
1999	2,077,308.87	60.00	34,621.72	38.09	1,318,672.09
2000	1,252,514.84	60.00	20,875.19	38.86	811,162.96
2001	1,713,564.24	60.00	28,559.33	39.64	1,131,978.23
2002	1,598,772.60	60.00	26,646.14	40.42	1,077,045.30
2003	2,141,303.67	60.00	35,688.30	41.21	1,470,695.81
2004	2,202,389.33	60.00	36,706.39	42.01	1,541,915.39
2005	207,229.55	60.00	3,453.82	42.81	147,856.92
2006	5,677,378.69	60.00	94,622.72	43.62	4,127,193.67
2007	3,180,321.44	60.00	53,005.21	44.43	2,355,164.56
2008	4,264,328.78	60.00	71,071.95	45.25	3,216,254.35

PAWC - Water Operations
Water Operations
335.00 Fire Hydrants

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *60* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2009	4,636,487.21	60.00	77,274.58	46.08	3,560,714.59
2010	4,234,532.40	60.00	70,575.35	46.91	3,310,778.59
2011	3,530,141.06	60.00	58,835.52	47.75	2,809,336.63
2012	4,631,038.43	60.00	77,183.76	48.59	3,750,431.23
2013	5,226,134.49	60.00	87,102.00	49.44	4,306,304.18
2014	4,639,834.24	60.00	77,330.36	50.29	3,889,218.56
2015	7,710,209.89	60.00	128,503.15	51.15	6,573,108.09
2016	7,730,712.84	60.00	128,844.86	52.02	6,701,945.29
2017	6,037,975.73	60.00	100,632.65	52.88	5,321,912.58
2018	5,480,713.71	60.00	91,344.98	53.76	4,910,458.08
2019	7,212,456.83	60.00	120,207.29	54.64	6,567,657.70
2020	7,559,288.66	60.00	125,987.80	55.52	6,994,754.01
2021	7,719,413.89	60.00	128,656.55	56.41	7,257,011.71
2022	11,021,495.38	60.00	183,691.09	57.30	10,525,230.40
2023	13,912,897.23	60.00	231,880.99	58.20	13,494,333.90
2024	13,795,218.63	60.00	229,919.68	59.09	13,587,103.07
2025	6,343,632.32	60.00	105,726.92	59.77	6,319,703.23
Total	169,429,177.37	53.76	2,823,684.89	49.23	139,010,178.42

Composite Average Remaining Life ... 49.23 Years

PAWC - Water Operations
Water Operations
341.00 Transportation - Not Classified

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *10* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1986	349.00	0.00	0.00	0.00	0.00
2020	2,238.67	10.00	223.86	5.70	1,275.84
2025	36,010.43	10.00	3,601.00	9.75	35,110.55
Total	38,598.10	6.67	3,824.86	9.51	36,386.39

Composite Average Remaining Life ... 9.51 Years

PAWC - Water Operations
Water Operations
341.10 Transportation - Light Trucks

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *10* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2011	13,156.44	10.00	1,315.63	2.93	3,849.65
2012	1,053,914.96	10.00	105,390.22	3.18	334,745.91
2013	4,251,864.62	10.00	425,181.32	3.43	1,456,369.43
2014	33,079.26	10.00	3,307.89	3.67	12,136.25
2015	685,160.14	10.00	68,515.19	3.91	267,739.02
2016	1,224,342.56	10.00	122,432.78	4.15	508,261.16
2017	26,230.86	10.00	2,623.05	4.42	11,593.48
2018	2,042,645.52	10.00	204,262.08	4.74	968,826.12
2019	9,569,988.39	10.00	956,987.26	5.16	4,935,609.69
2020	8,395,547.43	10.00	839,544.59	5.70	4,784,699.19
2021	10,800,582.16	10.00	1,080,045.15	6.39	6,898,119.37
2022	9,759,732.47	10.00	975,961.44	7.19	7,019,407.33
2023	16,580,311.08	10.00	1,658,011.05	8.07	13,378,064.13
2024	10,310,190.14	10.00	1,031,006.54	9.01	9,289,822.13
2025	2,055,523.01	10.00	205,549.81	9.75	2,004,156.67
Total	76,802,269.04	10.00	7,680,134.00	6.75	51,873,399.53

Composite Average Remaining Life ... 6.75 Years

PAWC - Water Operations
Water Operations
341.20 Transportation - Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 10 **Survivor Curve:** L2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2000	58,209.00	10.00	5,820.83	0.73	4,241.96
2011	4,000.00	10.00	400.00	2.93	1,170.42
2012	90,370.79	10.00	9,036.97	3.18	28,703.69
2013	2,819,782.74	10.00	281,974.86	3.43	965,845.75
2014	411,274.47	10.00	41,126.95	3.67	150,889.97
2016	2,478,954.18	10.00	247,892.42	4.15	1,029,087.91
2017	2,326,634.81	10.00	232,660.67	4.42	1,028,322.74
2018	5,865,427.39	10.00	586,535.64	4.74	2,781,970.35
2019	8,314.30	10.00	831.42	5.16	4,288.00
2020	811,487.16	10.00	81,147.73	5.70	462,473.95
2021	229,580.55	10.00	22,957.78	6.39	146,628.58
2022	172,600.00	10.00	17,259.79	7.19	124,137.59
Total	15,276,635.39	10.00	1,527,645.06	4.40	6,727,760.93

Composite Average Remaining Life ... 4.40 Years

PAWC - Water Operations
Water Operations
341.40 Transportation - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *10* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1961	374.92	0.00	0.00	0.00	0.00
1977	403.11	0.00	0.00	0.00	0.00
1978	265.00	0.00	0.00	0.00	0.00
1998	8,060.31	10.00	806.02	0.51	408.77
1999	1,561.47	10.00	156.15	0.60	93.17
2006	4,626.70	10.00	462.66	1.79	828.62
2007	18,169.65	10.00	1,816.94	2.00	3,630.96
2008	92,592.34	10.00	9,259.12	2.22	20,512.75
2009	25,526.94	10.00	2,552.66	2.44	6,235.49
2010	50,483.13	10.00	5,048.25	2.68	13,530.58
2011	75,022.83	10.00	7,502.19	2.93	21,952.12
2012	318,512.86	10.00	31,850.90	3.18	101,166.49
2013	836,648.69	10.00	83,663.86	3.43	286,572.99
2014	718,980.22	10.00	71,897.15	3.67	263,782.24
2015	178,690.77	10.00	17,868.86	3.91	69,826.73
2016	954,565.45	10.00	95,455.39	4.15	396,268.63
2017	120,461.68	10.00	12,046.02	4.42	53,241.48
2018	2,510,965.54	10.00	251,093.52	4.74	1,190,950.16
2019	787,130.82	10.00	78,712.13	5.16	405,953.52
2020	473,035.57	10.00	47,302.98	5.70	269,587.29
2021	78,210.92	10.00	7,821.00	6.39	49,951.78
2022	47,744.96	10.00	4,774.44	7.19	34,339.19
2023	129,695.53	10.00	12,969.40	8.07	104,646.72
2024	211,053.00	10.00	21,105.04	9.01	190,165.73

PAWC - Water Operations
Water Operations
341.40 Transportation - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *10* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	7,642,782.41	8.75	764,164.69	4.56	3,483,645.42

Composite Average Remaining Life ... 4.56 Years

PAWC - Water Operations
Water Operations
345.00 Power Operated Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 21 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1951	29.64	0.00	0.00	0.00	0.00
1967	1,931.23	0.00	0.00	0.00	0.00
1968	1,032.10	0.00	0.00	0.00	0.00
1969	817.92	0.00	0.00	0.00	0.00
1970	6,734.16	0.00	0.00	0.00	0.00
1972	6,321.41	0.00	0.00	0.00	0.00
1975	281.75	0.00	0.00	0.00	0.00
1977	596.25	0.00	0.00	0.00	0.00
1978	1,790.00	0.00	0.00	0.00	0.00
1980	7,445.82	0.00	0.00	0.00	0.00
1982	2,452.73	0.00	0.00	0.00	0.00
1984	1,722.07	21.00	82.00	0.50	41.00
1985	16,792.81	21.00	799.65	0.78	627.04
1986	14,013.50	21.00	667.30	1.11	738.09
1987	4,748.59	21.00	226.12	1.43	323.46
1988	10,221.10	21.00	486.71	1.76	855.97
1989	13,115.87	21.00	624.56	2.09	1,304.40
1990	9,498.15	21.00	452.29	2.42	1,094.95
1991	12,096.57	21.00	576.02	2.75	1,585.76
1992	18,034.45	21.00	858.78	3.09	2,651.97
1993	77,817.09	21.00	3,705.54	3.43	12,697.87
1994	142,750.50	21.00	6,797.58	3.77	25,627.59
1995	148,235.10	21.00	7,058.75	4.12	29,058.47
1996	79,553.28	21.00	3,788.22	4.47	16,928.26
1997	41,095.55	21.00	1,956.91	4.83	9,445.30
1998	55,083.04	21.00	2,622.98	5.19	13,617.38
1999	255,047.45	21.00	12,145.01	5.56	67,560.99

PAWC - Water Operations
Water Operations
345.00 Power Operated Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *21* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2001	45,944.17	21.00	2,187.80	6.33	13,848.48
2002	104,174.99	21.00	4,960.67	6.73	33,370.76
2003	170,236.10	21.00	8,106.41	7.13	57,830.82
2004	19,131.90	21.00	911.03	7.55	6,879.88
2005	33,181.89	21.00	1,580.08	7.98	12,610.87
2006	13,570.69	21.00	646.22	8.42	5,443.23
2007	5,629.80	21.00	268.08	8.88	2,380.22
2008	47,316.03	21.00	2,253.12	9.35	21,064.20
2009	85,341.82	21.00	4,063.86	9.83	39,967.36
2010	16,615.93	21.00	791.23	10.34	8,179.44
2011	34,410.00	21.00	1,638.56	10.86	17,792.01
2012	21,347.57	21.00	1,016.54	11.40	11,587.63
2013	21,465.79	21.00	1,022.17	11.96	12,226.00
2014	100,707.30	21.00	4,795.54	12.55	60,160.51
2015	52,293.85	21.00	2,490.16	13.15	32,753.13
2016	126,868.88	21.00	6,041.32	13.79	83,296.23
2017	26,612.95	21.00	1,267.27	14.45	18,312.40
2018	292,687.82	21.00	13,937.39	15.14	211,045.91
2019	13,003.54	21.00	619.21	15.87	9,824.07
2022	53,275.45	21.00	2,536.90	18.25	46,295.06
2024	2,433.40	21.00	115.88	20.03	2,321.54
2025	805,604.26	21.00	38,361.76	20.75	796,137.85
Total	3,021,112.26	16.29	142,459.61	11.85	1,687,486.14

Composite Average Remaining Life ... 11.85 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.20 Structures - Collection

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *45* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2007	5,708.78	45.00	126.86	28.05	3,558.14
2008	111,043.49	45.00	2,467.63	28.93	71,383.61
2009	135,657.72	45.00	3,014.61	29.82	89,889.19
2011	8,586.64	45.00	190.81	31.63	6,034.62
2013	101,201.33	45.00	2,248.92	33.46	75,259.42
2014	14,766.25	45.00	328.14	34.40	11,286.80
2015	30,621.01	45.00	680.47	35.33	24,043.82
2016	36,654.91	45.00	814.55	36.28	29,550.88
2017	197,636.56	45.00	4,391.92	37.23	163,506.63
2018	175,916.86	45.00	3,909.26	38.18	149,274.57
2019	266,260.20	45.00	5,916.89	39.15	231,626.65
2020	433,651.15	45.00	9,636.69	40.11	386,553.04
2021	572,059.14	45.00	12,712.42	41.08	522,263.16
2022	3,395,178.47	45.00	75,448.37	42.06	3,173,138.76
2023	2,433,296.92	45.00	54,073.24	43.04	2,327,053.67
2024	3,352,915.67	45.00	74,509.20	44.02	3,279,612.82
2025	745,593.95	45.00	16,568.75	44.75	741,511.22
Total	12,016,749.05	45.00	267,038.74	42.26	11,285,546.99

Composite Average Remaining Life ... 42.26 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.30 Structures - SPP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1935	18,861.14	55.00	342.93	7.47	2,562.76
1958	63,683.83	55.00	1,157.89	16.68	19,309.71
1976	25,970.39	55.00	472.19	24.60	11,616.94
1978	11,146.44	55.00	202.66	25.54	5,175.58
1980	93,957.85	55.00	1,708.32	26.49	45,247.86
1982	12,204.98	55.00	221.91	27.45	6,091.38
1983	86,589.73	55.00	1,574.36	27.94	43,983.02
1984	22,251.97	55.00	404.58	28.43	11,501.29
1985	104,674.02	55.00	1,903.16	28.92	55,044.87
1986	109,744.95	55.00	1,995.36	29.42	58,707.81
1987	29,681.60	55.00	539.67	29.93	16,149.85
1988	220,522.99	55.00	4,009.51	30.43	122,023.75
1989	240,185.48	55.00	4,367.01	30.95	135,141.59
1990	195,083.34	55.00	3,546.97	31.46	111,596.75
1991	285,470.50	55.00	5,190.37	31.98	166,012.99
1992	76,045.29	55.00	1,382.64	32.51	44,952.51
1993	2,160,497.80	55.00	39,281.75	33.04	1,298,045.88
1994	40,624.78	55.00	738.63	33.58	24,804.97
1996	24,175.73	55.00	439.56	34.67	15,241.38
1997	207,995.69	55.00	3,781.74	35.23	133,230.04
1998	429,870.49	55.00	7,815.82	35.79	279,741.23
1999	351,573.23	55.00	6,392.24	36.36	232,421.48
2000	289,845.37	55.00	5,269.91	36.94	194,644.33
2001	179,000.00	55.00	3,254.54	37.52	122,097.82
2002	66,094.94	55.00	1,201.73	38.11	45,792.99
2003	271,071.10	55.00	4,928.56	38.70	190,753.21
2004	1,082,516.67	55.00	19,682.11	39.31	773,688.24

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.30 Structures - SPP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2005	428,604.11	55.00	7,792.80	39.92	311,113.22
2006	917,095.09	55.00	16,674.44	40.54	676,054.17
2007	516,608.48	55.00	9,392.87	41.18	386,768.77
2008	2,147,228.90	55.00	39,040.50	41.82	1,632,633.63
2009	2,915,918.08	55.00	53,016.66	42.47	2,251,684.54
2010	2,365,815.22	55.00	43,014.79	43.13	1,855,409.12
2011	298,754.41	55.00	5,431.89	43.81	237,962.59
2012	37,883.52	55.00	688.79	44.49	30,646.21
2013	181,693.78	55.00	3,303.52	45.19	149,293.18
2014	4,039,714.09	55.00	73,449.30	45.90	3,371,679.58
2015	1,545,002.12	55.00	28,090.93	46.63	1,309,929.52
2016	553,292.14	55.00	10,059.85	47.37	476,573.13
2017	463,399.48	55.00	8,425.44	48.13	405,510.02
2018	388,079.03	55.00	7,055.98	48.91	345,078.16
2019	1,004,042.79	55.00	18,255.31	49.70	907,310.27
2020	1,665,213.82	55.00	30,276.59	50.52	1,529,482.97
2021	987,136.34	55.00	17,947.92	51.36	921,720.38
2022	790,909.88	55.00	14,380.17	52.22	750,909.26
2023	435,502.41	55.00	7,918.22	53.11	420,504.52
2024	821,724.47	55.00	14,940.43	54.03	807,252.30
2025	2,477,582.27	55.00	45,046.92	54.76	2,466,555.50
Total	31,680,540.73	55.00	576,009.43	44.11	25,409,651.26

Composite Average Remaining Life ... 44.11 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1916	177,755.17	55.00	3,231.91	0.50	1,615.95
1932	602.40	55.00	10.95	6.33	69.28
1935	562,419.57	55.00	10,225.80	7.47	76,418.70
1946	484.94	55.00	8.82	11.77	103.80
1954	3,946,317.60	55.00	71,751.18	15.01	1,077,244.87
1957	135,742.23	55.00	2,468.04	16.26	40,126.13
1961	346,385.67	55.00	6,297.92	17.94	113,011.45
1963	1,566,657.10	55.00	28,484.65	18.80	535,516.78
1965	53,759.86	55.00	977.45	19.66	19,221.31
1967	23,995,715.53	55.00	436,285.43	20.54	8,960,766.39
1968	361,924.73	55.00	6,580.45	20.98	138,054.76
1969	221,599.62	55.00	4,029.08	21.42	86,313.99
1973	38,481.00	55.00	699.65	23.22	16,247.60
1975	419,410.21	55.00	7,625.63	24.14	184,077.44
1976	16,150.91	55.00	293.65	24.60	7,224.54
1978	20,306,005.32	55.00	369,199.84	25.54	9,428,606.97
1981	12,778,313.67	55.00	232,332.81	26.97	6,265,204.52
1984	693,417.71	55.00	12,607.59	28.43	358,404.08
1985	133,860.33	55.00	2,433.82	28.92	70,393.06
1986	385,741.04	55.00	7,013.47	29.42	206,351.28
1988	15,031,971.53	55.00	273,308.38	30.43	8,317,760.94
1989	7,342,590.93	55.00	133,501.56	30.95	4,131,346.53
1990	6,479,049.63	55.00	117,800.82	31.46	3,706,317.83
1991	34,903,905.07	55.00	634,616.02	31.98	20,298,075.66
1992	52,055,984.18	55.00	946,471.78	32.51	30,771,753.66
1993	354,817.39	55.00	6,451.22	33.04	213,177.38
1994	16,680.06	55.00	303.27	33.58	10,184.63

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 *Survivor Curve:* S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1995	124,581.42	55.00	2,265.12	34.12	77,296.50
1996	642,593.75	55.00	11,683.51	34.67	405,117.62
1997	274,432.07	55.00	4,989.67	35.23	175,785.35
1998	599,628.40	55.00	10,902.33	35.79	390,212.38
1999	230,360.60	55.00	4,188.37	36.36	152,289.05
2000	6,456,390.86	55.00	117,388.84	36.94	4,335,759.59
2001	2,266,355.22	55.00	41,206.43	37.52	1,545,905.18
2002	1,387,706.79	55.00	25,231.02	38.11	961,453.99
2003	1,983,806.66	55.00	36,069.19	38.70	1,396,008.20
2004	204,864.73	55.00	3,724.81	39.31	146,419.39
2005	814,250.99	55.00	14,804.55	39.92	591,044.85
2006	1,009,776.60	55.00	18,359.56	40.54	744,376.11
2007	46,539.86	55.00	846.18	41.18	34,842.95
2008	2,849,140.44	55.00	51,802.52	41.82	2,166,328.20
2009	17,686,455.46	55.00	321,571.69	42.47	13,657,557.33
2010	20,483,746.66	55.00	372,431.50	43.13	16,064,538.78
2011	16,053,015.59	55.00	291,872.81	43.81	12,786,479.58
2012	3,496,681.74	55.00	63,575.99	44.49	2,828,671.30
2013	231,088.74	55.00	4,201.61	45.19	189,879.77
2014	10,269,815.58	55.00	186,723.79	45.90	8,571,529.25
2015	149,213.17	55.00	2,712.96	46.63	126,510.34
2016	446,427.21	55.00	8,116.85	47.37	384,526.00
2017	990,597.57	55.00	18,010.85	48.13	866,848.70
2018	421,177.10	55.00	7,657.76	48.91	374,508.82
2019	208,842.04	55.00	3,797.13	49.70	188,721.57
2020	2,243,371.63	55.00	40,788.55	50.52	2,060,515.39
2021	2,311,174.12	55.00	42,021.32	51.36	2,158,016.28

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	7,852,783.99	55.00	142,777.79	52.22	7,455,625.94
2023	12,748,818.46	55.00	231,796.54	53.11	12,309,773.04
2025	1,588,339.04	55.00	28,878.87	54.76	1,581,269.95
Total	298,397,719.89	55.00	5,425,409.32	34.98	189,761,400.92

Composite Average Remaining Life ... 34.98 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.70 Structures - General

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1939	3,508.43	0.00	0.00	0.00	0.00
1972	450.26	35.00	12.86	4.83	62.07
1984	11,260.27	35.00	321.72	8.88	2,857.44
1993	16,941.89	35.00	484.05	12.53	6,065.91
1994	29,220.00	35.00	834.86	12.98	10,837.05
1997	5,855.00	35.00	167.29	14.39	2,407.93
2003	3,759.70	35.00	107.42	17.56	1,886.32
2007	1,139.15	35.00	32.55	19.98	650.28
2008	354,558.47	35.00	10,130.24	20.63	208,968.60
2009	44,533.93	35.00	1,272.40	21.30	27,099.60
2010	5,428.73	35.00	155.11	21.99	3,410.52
2011	7,105.08	35.00	203.00	22.70	4,608.03
2012	28,465.52	35.00	813.30	23.43	19,057.56
2013	25,257.86	35.00	721.65	24.19	17,455.13
2014	413,665.01	35.00	11,819.00	24.97	295,073.16
2015	1,021,769.08	35.00	29,193.40	25.77	752,204.96
2016	9,177.69	35.00	262.22	26.59	6,973.03
2017	131,543.68	35.00	3,758.39	27.44	103,138.71
2018	370,638.42	35.00	10,589.67	28.32	299,856.84
2019	84,483.65	35.00	2,413.82	29.21	70,515.07
2020	174,920.15	35.00	4,997.72	30.13	150,595.06
2021	645,467.93	35.00	18,441.94	31.07	573,060.40
2022	1,086,757.09	35.00	31,050.20	32.03	994,638.23
2023	772,927.17	35.00	22,083.63	33.01	729,000.85
2024	2,022,088.78	35.00	57,773.95	34.00	1,964,404.78
2025	600,402.69	35.00	17,154.36	34.75	596,113.02

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.70 Structures - General

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	7,871,325.63	33.65	224,794.73	30.43	6,840,940.52

Composite Average Remaining Life ... 30.43 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
355.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1980	4,620.49	35.00	132.01	8.64	1,140.82
1983	14,573.73	35.00	416.39	9.77	4,066.69
1987	19,246.40	35.00	549.90	11.34	6,234.83
1989	49,338.78	35.00	1,409.68	12.16	17,140.34
1990	7,692.28	35.00	219.78	12.58	2,764.69
1992	59,866.38	35.00	1,710.46	13.44	22,990.98
1993	260,597.74	35.00	7,445.63	13.88	103,372.60
1994	12,067.19	35.00	344.78	14.33	4,941.91
1997	30,447.00	35.00	869.91	15.74	13,689.29
1998	74,281.11	35.00	2,122.31	16.22	34,429.32
1999	54,144.46	35.00	1,546.98	16.72	25,863.47
2000	97,004.84	35.00	2,771.56	17.23	47,740.74
2001	38,477.83	35.00	1,099.36	17.74	19,504.93
2002	56,915.93	35.00	1,626.17	18.27	29,711.71
2005	68,295.28	35.00	1,951.29	19.93	38,892.14
2007	12,208.69	35.00	348.82	21.11	7,361.89
2008	1,263,581.59	35.00	36,102.23	21.71	783,880.51
2009	2,513,725.97	35.00	71,820.55	22.34	1,604,260.26
2010	20,681.36	35.00	590.89	22.98	13,577.17
2011	62,203.16	35.00	1,777.23	23.63	42,003.46
2012	81,422.26	35.00	2,326.34	24.31	56,549.93
2013	26,762.41	35.00	764.64	25.00	19,116.55
2014	609,411.88	35.00	17,411.72	25.71	447,686.72
2015	84,106.93	35.00	2,403.05	26.44	63,539.01
2016	10,498.31	35.00	299.95	27.19	8,156.31
2017	13,046.73	35.00	372.76	27.96	10,424.01
2018	4,307.88	35.00	123.08	28.76	3,539.59

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
355.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2019	9,195.02	35.00	262.71	29.57	7,769.56
2020	160,993.90	35.00	4,599.81	30.41	139,897.27
2021	241,827.33	35.00	6,909.33	31.28	216,104.96
2022	226,859.70	35.00	6,481.69	32.16	208,479.48
2023	90,971.14	35.00	2,599.17	33.08	85,979.90
2024	88,903.89	35.00	2,540.10	34.02	86,422.80
2025	764,953.95	35.00	21,855.77	34.75	759,514.78
Total	7,133,231.54	35.00	203,806.06	24.22	4,936,748.66

Composite Average Remaining Life ... 24.22 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
360.10 Collection Sewers - Force Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 75 *Survivor Curve:* R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1935	46,716.55	75.00	622.89	9.42	5,866.63
1957	7,035.53	75.00	93.81	18.73	1,756.82
1958	32,519.35	75.00	433.59	19.29	8,365.93
1965	13,337.78	75.00	177.84	23.56	4,190.33
1972	82,114.26	75.00	1,094.86	28.34	31,023.68
1973	125,694.50	75.00	1,675.93	29.06	48,697.02
1974	1,499,378.30	75.00	19,991.71	29.78	595,411.03
1975	849,779.52	75.00	11,330.39	30.52	345,764.72
1976	971,420.09	75.00	12,952.27	31.26	404,915.70
1977	458,850.00	75.00	6,118.00	32.01	195,852.93
1978	270,355.19	75.00	3,604.74	32.77	118,127.54
1979	73,749.33	75.00	983.32	33.54	32,979.54
1980	153,505.40	75.00	2,046.74	34.31	70,227.99
1981	160,944.25	75.00	2,145.92	35.09	75,305.15
1982	49,998.70	75.00	666.65	35.88	23,921.27
1983	192,381.70	75.00	2,565.09	36.68	94,082.13
1985	309,939.29	75.00	4,132.52	38.29	158,238.37
1986	64,235.29	75.00	856.47	39.11	33,493.83
1987	225,949.78	75.00	3,012.66	39.93	120,292.09
1988	489,155.66	75.00	6,522.08	40.76	265,842.37
1989	92,110.83	75.00	1,228.14	41.60	51,086.04
1990	94,085.10	75.00	1,254.47	42.44	53,236.79
1991	75,459.60	75.00	1,006.13	43.29	43,553.74
1992	34,682.29	75.00	462.43	44.14	20,413.16
1993	576,500.39	75.00	7,686.67	45.00	345,927.46
1994	285,026.01	75.00	3,800.35	45.87	174,331.36
1995	933,327.99	75.00	12,444.37	46.75	581,715.61

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
360.10 Collection Sewers - Force Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1996	132,298.94	75.00	1,763.99	47.62	84,006.99
1997	1,678,151.28	75.00	22,375.35	48.51	1,085,418.12
1998	657,034.87	75.00	8,760.46	49.40	432,761.30
1999	458,996.56	75.00	6,119.95	50.29	307,797.96
2000	601,164.36	75.00	8,015.52	51.20	410,366.16
2001	861,762.58	75.00	11,490.17	52.10	598,661.77
2002	1,674,484.05	75.00	22,326.45	53.01	1,183,579.04
2003	408,278.87	75.00	5,443.72	53.93	293,577.22
2004	2,396,210.04	75.00	31,949.47	54.85	1,752,422.76
2005	654,776.48	75.00	8,730.35	55.77	486,929.86
2006	1,953,601.16	75.00	26,048.01	56.71	1,477,053.81
2007	1,274,034.06	75.00	16,987.12	57.64	979,113.91
2008	4,687,439.33	75.00	62,499.19	58.58	3,660,951.70
2009	1,042,309.60	75.00	13,897.46	59.52	827,160.79
2010	745,082.25	75.00	9,934.43	60.46	600,678.09
2013	290,574.36	75.00	3,874.32	63.32	245,332.26
2014	4,343,442.41	75.00	57,912.56	64.28	3,722,702.19
2015	2,379,651.53	75.00	31,728.69	65.24	2,070,118.80
2016	3,118,973.50	75.00	41,586.31	66.21	2,753,401.55
2017	3,466,281.44	75.00	46,217.08	67.18	3,104,714.64
2018	1,042,138.86	75.00	13,895.18	68.15	946,925.25
2019	4,282,675.00	75.00	57,102.33	69.12	3,946,932.88
2020	2,057,226.33	75.00	27,429.68	70.10	1,922,686.22
2021	2,129,678.93	75.00	28,395.72	71.07	2,018,161.62
2022	1,466,943.23	75.00	19,559.24	72.05	1,409,278.07
2023	2,383,440.53	75.00	31,779.21	73.03	2,320,916.86
2024	3,195,837.37	75.00	42,611.16	74.02	3,153,895.90

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
360.10 Collection Sewers - Force Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2025	407,249.66	75.00	5,430.00	74.75	405,913.14
Total	57,957,990.26	75.00	772,773.17	59.66	46,106,078.08

Composite Average Remaining Life ... 59.66 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1912	381.14	80.00	4.76	8.73	41.60
1915	22,192.47	80.00	277.41	9.43	2,616.12
1916	906.43	80.00	11.33	9.67	109.56
1917	709.87	80.00	8.87	9.91	87.95
1919	791.90	80.00	9.90	10.41	103.02
1920	103,191.74	80.00	1,289.90	10.65	13,733.33
1921	601.36	80.00	7.52	10.90	81.95
1922	3,269.23	80.00	40.87	11.16	456.12
1924	874.80	80.00	10.93	11.69	127.78
1925	2,817.75	80.00	35.22	11.96	421.20
1926	32,323.10	80.00	404.04	12.24	4,944.60
1927	4,663.32	80.00	58.29	12.52	730.03
1928	7,135.70	80.00	89.20	12.81	1,142.50
1929	6,905.08	80.00	86.31	13.11	1,131.34
1930	213,189.80	80.00	2,664.87	13.41	35,745.77
1931	12,984.63	80.00	162.31	13.72	2,227.64
1932	24,015.69	80.00	300.20	14.05	4,216.72
1933	14,232.60	80.00	177.91	14.38	2,557.82
1934	3,907.37	80.00	48.84	14.72	718.81
1935	454,298.87	80.00	5,678.73	15.07	85,555.44
1936	350,354.72	80.00	4,379.43	15.42	67,544.97
1937	55,326.44	80.00	691.58	15.79	10,921.13
1938	50,807.56	80.00	635.09	16.17	10,269.38
1939	55,074.39	80.00	688.43	16.56	11,399.65
1940	18,414.47	80.00	230.18	16.96	3,903.45
1941	8,087.28	80.00	101.09	17.37	1,755.74
1942	32,564.04	80.00	407.05	17.79	7,240.65

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1943	2,181,156.84	80.00	27,264.44	18.22	496,780.93
1944	3,914.21	80.00	48.93	18.66	913.15
1945	38,587.38	80.00	482.34	19.12	9,220.55
1946	94,305.84	80.00	1,178.82	19.58	23,081.02
1947	23,247.89	80.00	290.60	20.06	5,828.46
1948	4,853.93	80.00	60.67	20.54	1,246.41
1949	2,909.04	80.00	36.36	21.04	765.05
1950	64,255.76	80.00	803.20	21.55	17,305.50
1951	9,357.18	80.00	116.96	22.06	2,580.55
1952	3,101.48	80.00	38.77	22.59	875.97
1953	419,902.85	80.00	5,248.78	23.13	121,422.42
1954	209,709.65	80.00	2,621.37	23.68	62,078.44
1955	85,900.80	80.00	1,073.76	24.24	26,031.53
1956	36,536.86	80.00	456.71	24.81	11,332.10
1957	892,236.07	80.00	11,152.94	25.39	283,181.53
1958	41,596.91	80.00	519.96	25.98	13,507.61
1961	44,879.38	80.00	560.99	27.80	15,595.80
1962	45,642.03	80.00	570.52	28.42	16,216.60
1963	30,105.33	80.00	376.32	29.06	10,935.55
1965	304,441.97	80.00	3,805.52	30.35	115,497.99
1966	21,235,026.73	80.00	265,437.65	31.01	8,230,401.60
1968	34,420.00	80.00	430.25	32.35	13,917.76
1969	397,497.97	80.00	4,968.72	33.03	164,109.01
1970	781,349.79	80.00	9,766.87	33.72	329,297.03
1971	7,126.07	80.00	89.08	34.41	3,065.39
1972	6,196,036.90	80.00	77,450.41	35.12	2,719,728.13
1974	111,769.14	80.00	1,397.11	36.54	51,050.86

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1975	3,750,319.71	80.00	46,878.96	37.26	1,746,809.24
1976	302,087.62	80.00	3,776.09	37.99	143,472.45
1977	180,737.22	80.00	2,259.21	38.73	87,500.84
1978	78,508.62	80.00	981.36	39.47	38,736.54
1979	97,458.75	80.00	1,218.23	40.22	49,001.15
1980	3,222,120.37	80.00	40,276.48	40.98	1,650,453.62
1982	19,290.42	80.00	241.13	42.51	10,249.30
1983	24,537,925.96	80.00	306,723.86	43.28	13,274,201.10
1984	2,803,725.57	80.00	35,046.55	44.06	1,544,121.04
1985	3,490,753.96	80.00	43,634.39	44.84	1,956,720.24
1986	1,042,054.14	80.00	13,025.67	45.63	594,404.21
1987	1,007,322.58	80.00	12,591.52	46.43	584,637.02
1988	2,979,493.48	80.00	37,243.64	47.23	1,759,112.76
1989	2,341,591.92	80.00	29,269.88	48.04	1,406,104.12
1990	6,027,373.24	80.00	75,342.11	48.85	3,680,545.07
1992	5,294,845.94	80.00	66,185.53	50.49	3,341,928.60
1993	6,431,347.35	80.00	80,391.79	51.32	4,125,797.93
1994	594,962.59	80.00	7,437.03	52.15	387,868.54
1995	10,247,152.67	80.00	128,089.32	52.99	6,787,868.97
1996	418,494.03	80.00	5,231.17	53.84	281,626.60
1997	3,289,601.02	80.00	41,119.98	54.68	2,248,595.36
1998	3,180,230.23	80.00	39,752.85	55.54	2,207,704.97
1999	2,454,391.07	80.00	30,679.87	56.39	1,730,104.24
2000	3,490,061.25	80.00	43,625.74	57.26	2,497,830.86
2001	1,794,466.87	80.00	22,430.82	58.12	1,303,719.02
2002	3,123,261.18	80.00	39,040.74	58.99	2,303,082.32
2003	2,136,820.89	80.00	26,710.24	59.87	1,599,031.17

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2004	1,184,085.08	80.00	14,801.05	60.75	899,113.56
2005	7,386,564.38	80.00	92,331.99	61.63	5,690,359.33
2006	1,889,659.07	80.00	23,620.72	62.52	1,476,669.70
2007	6,280,746.98	80.00	78,509.28	63.41	4,977,965.12
2008	8,397,869.95	80.00	104,973.30	64.30	6,750,029.48
2009	7,869,507.93	80.00	98,368.78	65.20	6,413,687.55
2010	5,165,965.20	80.00	64,574.52	66.10	4,268,501.94
2011	3,149,642.79	80.00	39,370.51	67.01	2,638,150.09
2012	2,047,343.10	80.00	25,591.77	67.92	1,738,117.89
2013	4,151,065.89	80.00	51,888.29	68.83	3,571,418.10
2014	12,107,039.88	80.00	151,337.89	69.74	10,554,905.06
2015	5,354,324.14	80.00	66,929.00	70.66	4,729,332.92
2016	5,949,427.37	80.00	74,367.79	71.58	5,323,596.40
2017	15,524,187.67	80.00	194,052.21	72.51	14,070,522.24
2018	2,824,536.12	80.00	35,306.68	73.44	2,592,777.83
2019	13,411,921.76	80.00	167,648.90	74.37	12,467,487.32
2020	3,501,934.46	80.00	43,774.15	75.30	3,296,164.24
2021	5,364,890.34	80.00	67,061.08	76.23	5,112,365.97
2022	4,640,588.41	80.00	58,007.31	77.17	4,476,540.35
2023	5,006,525.56	80.00	62,581.53	78.11	4,888,358.85
2024	9,636,478.10	80.00	120,455.89	79.06	9,522,685.86
2025	6,587,743.99	80.00	82,346.74	79.76	6,568,291.49
Total	266,548,336.57	80.00	3,331,851.88	57.74	192,384,019.78

Composite Average Remaining Life ... 57.74 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1912	8,561.86	0.00	0.00	0.00	0.00
1916	1,911.68	0.00	0.00	0.00	0.00
1917	11,474.98	0.00	0.00	0.00	0.00
1921	3,790.15	0.00	0.00	0.00	0.00
1924	2,735.16	0.00	0.00	0.00	0.00
1925	130,561.92	0.00	0.00	0.00	0.00
1926	133,622.37	0.00	0.00	0.00	0.00
1927	28,585.36	50.00	571.71	0.50	285.85
1928	19,749.81	50.00	395.00	0.65	256.02
1930	102,431.77	50.00	2,048.64	0.97	1,990.31
1931	67,628.80	50.00	1,352.58	1.14	1,548.14
1932	12,566.11	50.00	251.32	1.32	332.40
1933	3,626.04	50.00	72.52	1.50	109.14
1934	9,285.87	50.00	185.72	1.69	314.00
1935	60,686.52	50.00	1,213.73	1.88	2,281.38
1936	115,058.29	50.00	2,301.17	2.07	4,767.10
1937	66,205.54	50.00	1,324.11	2.27	3,001.04
1938	68,078.15	50.00	1,361.56	2.46	3,354.90
1939	95,169.22	50.00	1,903.38	2.66	5,071.32
1940	31,426.02	50.00	628.52	2.87	1,802.33
1941	5,580.70	50.00	111.61	3.07	343.06
1942	64,632.82	50.00	1,292.66	3.28	4,243.28
1943	2,181,478.24	50.00	43,629.57	3.49	152,466.50
1944	12,957.82	50.00	259.16	3.71	961.37
1945	11,217.09	50.00	224.34	3.93	881.16
1946	68,755.13	50.00	1,375.10	4.15	5,705.53
1947	54,472.68	50.00	1,089.45	4.37	4,765.17

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1948	10,708.15	50.00	214.16	4.60	985.60
1949	8,292.42	50.00	165.85	4.83	801.69
1950	46,927.54	50.00	938.55	5.07	4,757.84
1951	24,689.71	50.00	493.79	5.31	2,621.37
1952	12,799.58	50.00	255.99	5.55	1,421.23
1953	625,274.35	50.00	12,505.49	5.80	72,522.21
1954	300,399.77	50.00	6,008.00	6.05	36,353.41
1955	126,303.26	50.00	2,526.07	6.31	15,931.56
1956	70,764.47	50.00	1,415.29	6.57	9,294.88
1957	35,807.16	50.00	716.14	6.83	4,893.30
1958	55,429.01	50.00	1,108.58	7.10	7,874.42
1961	80,479.17	50.00	1,609.58	7.95	12,789.22
1962	48,649.72	50.00	972.99	8.24	8,015.26
1963	46,793.72	50.00	935.87	8.54	7,988.41
1965	61,883.30	50.00	1,237.67	9.15	11,325.56
1966	4,568,610.24	50.00	91,372.21	9.47	865,128.25
1968	35,388.05	50.00	707.76	10.12	7,165.57
1969	78,210.94	50.00	1,564.22	10.46	16,367.22
1970	147,368.99	50.00	2,947.38	10.81	31,862.92
1971	13,739.30	50.00	274.79	11.17	3,068.22
1972	1,038,848.07	50.00	20,776.96	11.53	239,549.24
1974	8,999.10	50.00	179.98	12.28	2,210.86
1975	599,973.89	50.00	11,999.48	12.68	152,093.81
1977	42,780.69	50.00	855.61	13.49	11,540.12
1979	34,431.77	50.00	688.64	14.34	9,876.88
1980	1,193,863.10	50.00	23,877.26	14.79	353,079.22
1983	809,610.51	50.00	16,192.21	16.19	262,217.15

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1984	134,019.84	50.00	2,680.40	16.69	44,732.47
1985	768,564.12	50.00	15,371.28	17.20	264,341.47
1986	205,518.24	50.00	4,110.37	17.72	72,833.71
1987	236,554.49	50.00	4,731.09	18.26	86,372.97
1988	295,673.19	50.00	5,913.46	18.81	111,222.54
1989	21,431.94	50.00	428.64	19.38	8,305.15
1990	1,674,480.37	50.00	33,489.61	19.96	668,409.53
1992	572,844.23	50.00	11,456.89	21.17	242,586.84
1993	358,744.07	50.00	7,174.88	21.81	156,460.75
1994	240,277.70	50.00	4,805.55	22.46	107,917.71
1995	2,835,618.70	50.00	56,712.38	23.12	1,311,450.60
1996	171,669.15	50.00	3,433.38	23.81	81,749.39
1997	1,036,369.93	50.00	20,727.40	24.51	508,106.92
1998	489,526.22	50.00	9,790.53	25.24	247,069.79
1999	595,485.58	50.00	11,909.71	25.98	309,363.44
2000	573,756.82	50.00	11,475.14	26.73	306,778.31
2001	379,456.45	50.00	7,589.13	27.51	208,783.66
2002	746,696.63	50.00	14,933.93	28.31	422,715.91
2003	628,255.02	50.00	12,565.10	29.12	365,876.72
2004	602,166.01	50.00	12,043.32	29.95	360,683.31
2005	2,284,646.16	50.00	45,692.93	30.80	1,407,174.97
2006	171,037.75	50.00	3,420.76	31.66	108,302.82
2007	2,053,375.92	50.00	41,067.52	32.54	1,336,365.26
2008	2,386,021.69	50.00	47,720.44	33.44	1,595,588.22
2009	238,824.56	50.00	4,776.49	34.35	164,053.86
2010	783,441.59	50.00	15,668.83	35.27	552,633.04
2011	1,314,648.76	50.00	26,292.98	36.21	951,952.21

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2012	96,983.02	50.00	1,939.66	37.15	72,064.21
2013	1,061,797.09	50.00	21,235.94	38.11	809,316.74
2014	2,194,357.17	50.00	43,887.15	39.08	1,714,999.72
2015	5,519,178.30	50.00	110,383.57	40.05	4,421,099.79
2016	283,133.88	50.00	5,662.68	41.03	232,359.29
2017	406,388.58	50.00	8,127.77	42.02	341,531.00
2018	185,761.31	50.00	3,715.23	43.01	159,796.97
2019	153,157.12	50.00	3,063.14	44.01	134,796.02
2020	686,921.50	50.00	13,738.43	45.00	618,264.92
2021	448,218.69	50.00	8,964.37	46.00	412,369.75
2022	1,007,196.35	50.00	20,143.93	47.00	946,769.83
2023	923,446.35	50.00	18,468.93	48.00	886,509.19
2024	1,617,240.56	50.00	32,344.81	49.00	1,584,895.94
2025	1,183,514.42	50.00	23,670.29	49.75	1,177,596.78
Total	51,065,675.55	46.32	1,015,460.42	27.44	27,860,417.12

Composite Average Remaining Life ... *27.44 Years*

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1912	20,295.76	0.00	0.00	0.00	0.00
1916	8,724.19	0.00	0.00	0.00	0.00
1917	29,533.87	0.00	0.00	0.00	0.00
1919	5,542.61	0.00	0.00	0.00	0.00
1921	367.78	0.00	0.00	0.00	0.00
1922	2,061.14	0.00	0.00	0.00	0.00
1924	10,576.28	0.00	0.00	0.00	0.00
1925	406,575.78	0.00	0.00	0.00	0.00
1926	275,896.64	0.00	0.00	0.00	0.00
1927	81,823.31	0.00	0.00	0.00	0.00
1928	31,303.91	0.00	0.00	0.00	0.00
1929	114.72	0.00	0.00	0.00	0.00
1930	177,907.55	0.00	0.00	0.00	0.00
1931	106,567.72	0.00	0.00	0.00	0.00
1932	47,485.32	0.00	0.00	0.00	0.00
1933	3,294.89	0.00	0.00	0.00	0.00
1934	12,506.52	0.00	0.00	0.00	0.00
1935	83,767.66	0.00	0.00	0.00	0.00
1936	171,427.07	0.00	0.00	0.00	0.00
1937	71,566.46	0.00	0.00	0.00	0.00
1938	75,863.59	0.00	0.00	0.00	0.00
1939	58,561.23	0.00	0.00	0.00	0.00
1940	20,471.70	0.00	0.00	0.00	0.00
1941	4,074.41	0.00	0.00	0.00	0.00
1942	47,804.75	0.00	0.00	0.00	0.00
1943	3,493,758.53	0.00	0.00	0.00	0.00
1944	15,414.58	0.00	0.00	0.00	0.00

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1945	12,444.98	0.00	0.00	0.00	0.00
1946	51,760.96	47.00	1,101.30	0.50	550.65
1947	41,353.68	47.00	879.87	0.54	472.82
1948	3,494.17	47.00	74.34	0.69	51.66
1949	3,765.73	47.00	80.12	0.89	71.48
1950	13,805.72	47.00	293.74	1.11	325.18
1951	7,539.28	47.00	160.41	1.31	210.17
1952	3,913.23	47.00	83.26	1.56	129.69
1953	525,410.70	47.00	11,178.98	1.81	20,180.45
1954	110,500.49	47.00	2,351.08	2.05	4,831.31
1955	41,584.49	47.00	884.78	2.31	2,041.30
1956	22,273.98	47.00	473.92	2.56	1,213.89
1957	181,331.30	47.00	3,858.12	2.82	10,868.72
1958	15,935.24	47.00	339.05	3.07	1,042.07
1961	11,663.58	47.00	248.16	3.84	951.72
1962	17,100.97	47.00	363.85	4.09	1,489.58
1963	7,650.64	47.00	162.78	4.35	708.80
1965	57,674.42	47.00	1,227.12	4.89	5,994.80
1966	9,452,640.81	47.00	201,120.52	5.16	1,037,571.07
1968	12,368.97	47.00	263.17	5.73	1,507.08
1969	8,343.96	47.00	177.53	6.03	1,070.51
1970	379,235.16	47.00	8,068.85	6.35	51,207.15
1971	10,232.80	47.00	217.72	6.68	1,453.71
1972	605,250.06	47.00	12,877.69	7.02	90,444.34
1973	2,297.07	47.00	48.87	7.39	361.01
1974	8,386.25	47.00	178.43	7.77	1,385.94
1975	1,680,201.42	47.00	35,749.06	8.17	291,979.75

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *47* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1976	54,189.63	47.00	1,152.97	8.59	9,900.39
1977	56,778.47	47.00	1,208.06	9.03	10,903.83
1978	32,729.10	47.00	696.37	9.49	6,605.08
1979	45,138.57	47.00	960.40	9.96	9,569.80
1980	799,412.49	47.00	17,008.82	10.46	177,979.99
1981	72,360.52	47.00	1,539.59	10.98	16,910.31
1982	59,525.72	47.00	1,266.51	11.53	14,597.41
1983	288,044.64	47.00	6,128.62	12.09	74,066.31
1984	250,999.93	47.00	5,340.44	12.66	67,631.00
1985	1,693,355.21	47.00	36,028.92	13.26	477,783.37
1986	226,760.23	47.00	4,824.70	13.88	66,948.54
1987	759,749.71	47.00	16,164.93	14.51	234,531.35
1988	329,311.48	47.00	7,006.64	15.16	106,205.20
1989	311,615.14	47.00	6,630.13	15.82	104,908.24
1990	3,463,156.42	47.00	73,684.36	16.51	1,216,240.91
1991	79,126.91	47.00	1,683.56	17.20	28,960.30
1992	459,275.48	47.00	9,771.84	17.91	175,031.49
1993	754,574.85	47.00	16,054.82	18.64	299,188.34
1994	250,014.08	47.00	5,319.46	19.37	103,049.56
1995	6,475,030.72	47.00	137,766.96	20.12	2,772,099.55
1996	129,486.81	47.00	2,755.05	20.88	57,534.90
1997	437,673.46	47.00	9,312.22	21.66	201,677.19
1998	401,410.66	47.00	8,540.67	22.44	191,693.05
1999	277,325.07	47.00	5,900.55	23.24	137,139.56
2000	1,039,279.34	47.00	22,112.38	24.05	531,802.87
2001	363,172.65	47.00	7,727.10	24.87	192,165.03
2002	478,546.04	47.00	10,181.86	25.70	261,658.70

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2003	584,302.97	47.00	12,432.01	26.54	329,925.63
2004	952,452.23	47.00	20,264.99	27.39	555,024.78
2005	2,838,606.99	47.00	60,396.05	28.25	1,706,075.61
2006	1,002,471.58	47.00	21,329.24	29.12	621,087.56
2007	694,897.78	47.00	14,785.10	30.00	443,522.13
2008	2,563,254.26	47.00	54,537.46	30.89	1,684,428.48
2009	2,506,766.58	47.00	53,335.59	31.78	1,695,119.23
2010	962,539.76	47.00	20,479.62	32.69	669,414.61
2011	235,577.57	47.00	5,012.30	33.60	168,411.06
2012	244,628.25	47.00	5,204.87	34.52	179,671.15
2013	568,674.86	47.00	12,099.50	35.45	428,894.53
2014	645,431.18	47.00	13,732.61	36.38	499,629.31
2015	1,275,097.20	47.00	27,129.80	37.32	1,012,580.56
2016	681,869.76	47.00	14,507.90	38.27	555,223.95
2017	2,248,796.68	47.00	47,846.86	39.22	1,876,695.02
2018	746,826.11	47.00	15,889.96	40.18	638,469.23
2019	408,691.77	47.00	8,695.59	41.14	357,764.76
2020	976,539.23	47.00	20,777.48	42.11	874,944.65
2021	986,883.04	47.00	20,997.56	43.08	904,602.55
2022	1,385,464.94	47.00	29,478.05	44.06	1,298,703.66
2023	2,692,194.15	47.00	57,280.87	45.03	2,579,633.04
2024	2,708,532.49	47.00	57,628.50	46.02	2,651,832.61
2025	1,274,988.28	47.00	27,127.48	46.75	1,268,303.03
Total	67,324,979.02	34.35	1,320,200.05	24.30	32,074,854.27

Composite Average Remaining Life ... 24.30 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
364.00 Flow Measuring Devices
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 15 **Survivor Curve:** L2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1989	7,979.00	15.00	531.93	1.25	664.60
1990	3,478.54	15.00	231.90	1.42	329.64
1991	8,740.98	15.00	582.73	1.60	932.86
1992	6,784.52	15.00	452.30	1.78	805.34
1999	51,368.90	15.00	3,424.58	3.19	10,913.71
2001	7,764.93	15.00	517.66	3.64	1,885.29
2002	4,455.38	15.00	297.02	3.88	1,152.22
2004	2,628.68	15.00	175.24	4.37	766.01
2005	8,722.16	15.00	581.48	4.62	2,687.50
2006	15,631.29	15.00	1,042.08	4.87	5,078.82
2007	9,030.61	15.00	602.04	5.12	3,083.93
2008	29,418.95	15.00	1,961.26	5.37	10,527.24
2009	92,082.61	15.00	6,138.83	5.61	34,434.30
2010	29,477.55	15.00	1,965.17	5.85	11,492.10
2011	53,822.99	15.00	3,588.19	6.09	21,851.14
2013	26,874.75	15.00	1,791.65	6.62	11,857.98
2014	152,277.99	15.00	10,151.84	6.93	70,357.94
2015	112,570.79	15.00	7,504.70	7.29	54,745.22
2016	5,515.89	15.00	367.73	7.73	2,842.16
2018	1,269.20	15.00	84.61	8.86	750.01
2020	30,025.23	15.00	2,001.68	10.37	20,758.30
2021	21,591.05	15.00	1,439.40	11.21	16,141.50
2024	57,960.15	15.00	3,864.00	14.00	54,114.31
Total	739,472.14	15.00	49,298.02	6.86	338,172.10

Composite Average Remaining Life ... 6.86 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
365.00 Flow Measuring Installations

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *25* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1970	30,360.76	0.00	0.00	0.00	0.00
1991	227,265.28	25.00	9,090.61	3.43	31,179.24
2009	14,938.00	25.00	597.52	10.91	6,516.21
Total	272,564.04	16.67	9,688.13	3.89	37,695.45

Composite Average Remaining Life ... 3.89 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
370.00 Receiving Wells

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2007	6,261.10	50.00	125.22	32.93	4,123.95
2009	92,112.20	50.00	1,842.24	34.73	63,990.09
2013	33,467.05	50.00	669.34	38.43	25,719.97
2017	1,547.02	50.00	30.94	42.22	1,306.15
2019	544,001.01	50.00	10,880.01	44.14	480,239.43
Total	677,388.38	50.00	13,547.76	42.47	575,379.59

Composite Average Remaining Life ... 42.47 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
371.00 Pumping Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 30 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1968	45,036.60	30.00	1,501.22	1.11	1,666.14
1985	24,445.49	30.00	814.85	6.89	5,611.80
1986	80,394.17	30.00	2,679.80	7.25	19,431.43
1987	7,690.98	30.00	256.37	7.62	1,953.53
1989	25,432.63	30.00	847.75	8.37	7,098.15
1990	1,864.20	30.00	62.14	8.76	544.23
1992	112,975.50	30.00	3,765.84	9.55	35,952.73
1993	164,128.61	30.00	5,470.94	9.95	54,445.96
1994	15,852.39	30.00	528.41	10.36	5,476.33
1996	56,678.77	30.00	1,889.29	11.21	21,181.43
1997	43,544.85	30.00	1,451.49	11.65	16,906.75
1998	108,836.69	30.00	3,627.88	12.09	43,873.10
1999	542,406.50	30.00	18,080.18	12.55	226,874.37
2001	15,000.00	30.00	500.00	13.49	6,744.57
2002	61,494.38	30.00	2,049.81	13.98	28,647.73
2003	120,731.71	30.00	4,024.38	14.47	58,251.95
2004	166,377.35	30.00	5,545.90	14.99	83,108.59
2005	101,526.82	30.00	3,384.22	15.51	52,486.80
2006	41,066.32	30.00	1,368.87	16.05	21,966.91
2007	6,031.45	30.00	201.05	16.60	3,337.26
2008	926,516.01	30.00	30,883.80	17.17	530,156.91
2009	597,821.84	30.00	19,927.35	17.75	353,709.16
2010	524,129.24	30.00	17,470.94	18.35	320,584.75
2011	66,844.03	30.00	2,228.13	18.97	42,260.07
2012	41,822.46	30.00	1,394.08	19.60	27,328.47
2013	60,261.59	30.00	2,008.72	20.26	40,693.06
2014	1,687,020.87	30.00	56,233.91	20.93	1,177,159.69

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
371.00 Pumping Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *30* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2015	231,880.48	30.00	7,729.33	21.63	167,192.17
2016	617,565.17	30.00	20,585.46	22.35	460,076.25
2017	395,217.96	30.00	13,173.90	23.09	304,201.08
2018	471,237.52	30.00	15,707.88	23.86	374,766.48
2019	3,682,743.71	30.00	122,757.87	24.65	3,025,960.10
2020	647,653.61	30.00	21,588.41	25.47	549,794.77
2021	200,584.16	30.00	6,686.12	26.31	175,934.54
2022	2,632,199.28	30.00	87,739.79	27.19	2,385,371.55
2023	2,046,330.53	30.00	68,210.87	28.09	1,916,044.12
2024	1,054,307.45	30.00	35,143.51	29.03	1,020,109.70
2025	2,437,785.60	30.00	81,259.35	29.75	2,417,623.93
Total	20,063,436.92	30.00	668,779.83	23.90	15,984,526.56

Composite Average Remaining Life ... 23.90 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
380.00 Treatment Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 *Survivor Curve:* S1.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1951	889,872.35	0.00	0.00	0.00	0.00
1957	10,040.14	35.00	286.86	0.64	184.98
1963	78,679.95	35.00	2,248.00	2.10	4,725.20
1965	83,399.24	35.00	2,382.84	2.60	6,203.92
1967	162,108.46	35.00	4,631.67	3.11	14,393.03
1969	2,145.15	35.00	61.29	3.61	221.19
1973	946.11	35.00	27.03	4.65	125.59
1981	2,355,765.96	35.00	67,307.59	6.92	465,557.11
1984	581,328.63	35.00	16,609.39	7.88	130,845.87
1985	476,475.05	35.00	13,613.57	8.22	111,843.52
1986	719,743.99	35.00	20,564.11	8.56	176,087.87
1987	144,303.20	35.00	4,122.95	8.92	36,779.42
1988	808,655.41	35.00	23,104.44	9.29	214,599.36
1989	1,182,368.41	35.00	33,781.95	9.67	326,572.68
1990	2,530,450.44	35.00	72,298.58	10.06	727,161.01
1991	2,231,839.71	35.00	63,766.84	10.46	667,054.54
1992	801,701.61	35.00	22,905.76	10.88	249,144.55
1993	3,128,193.67	35.00	89,376.96	11.31	1,010,556.53
1994	58,490.67	35.00	1,671.16	11.75	19,636.48
1995	7,336.00	35.00	209.60	12.21	2,559.07
1996	78,592.87	35.00	2,245.51	12.68	28,482.19
1997	20,044.11	35.00	572.69	13.18	7,545.29
1998	3,736,404.22	35.00	106,754.40	13.68	1,460,758.29
1999	1,076,156.53	35.00	30,747.33	14.21	436,895.53
2000	5,188.88	35.00	148.25	14.75	2,187.26
2001	1,763,697.55	35.00	50,391.36	15.32	771,771.01
2002	621,295.62	35.00	17,751.30	15.90	282,226.63

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
380.00 Treatment Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S1.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2003	2,041,741.80	35.00	58,335.48	16.50	962,687.78
2004	698,122.41	35.00	19,946.35	17.13	341,624.58
2005	2,242,056.25	35.00	64,058.75	17.77	1,138,522.02
2006	692,237.32	35.00	19,778.21	18.44	364,726.64
2007	56,165.28	35.00	1,604.72	19.13	30,699.55
2008	935,244.82	35.00	26,721.28	19.84	530,194.41
2009	18,928,182.07	35.00	540,805.16	20.58	11,128,285.74
2010	21,364,029.46	35.00	610,400.80	21.34	13,023,215.84
2011	7,089,610.85	35.00	202,560.30	22.12	4,479,896.23
2012	4,797,177.42	35.00	137,062.20	22.92	3,141,404.48
2013	3,050,877.66	35.00	87,167.93	23.74	2,069,778.63
2014	8,807,527.39	35.00	251,643.62	24.59	6,188,252.39
2015	1,026,823.44	35.00	29,337.81	25.46	746,865.61
2016	541,226.97	35.00	15,463.63	26.35	407,391.64
2017	651,726.63	35.00	18,620.76	27.25	507,445.83
2018	4,755,013.14	35.00	135,857.51	28.18	3,827,868.50
2019	1,905,741.81	35.00	54,449.76	29.12	1,585,348.11
2020	8,555,667.54	35.00	244,447.63	30.07	7,350,697.85
2021	10,538,260.88	35.00	301,093.15	31.04	9,345,480.84
2022	11,387,103.87	35.00	325,345.80	32.02	10,416,606.18
2023	11,446,067.90	35.00	327,030.49	33.01	10,793,812.15
2024	4,163,405.30	35.00	118,954.43	34.00	4,044,544.00
2025	4,322,578.80	35.00	123,502.24	34.75	4,291,699.65
Total	153,551,812.94	34.30	4,361,769.43	23.81	103,871,166.75

Composite Average Remaining Life ... 23.81 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
381.00 Plant Sewers

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2008	294,411.86	50.00	5,888.23	33.83	199,199.41
2009	4,434,866.70	50.00	88,697.29	34.73	3,080,889.72
2010	1,187,964.50	50.00	23,759.28	35.65	846,951.50
2011	6,597.06	50.00	131.94	36.57	4,824.65
2012	1,684.33	50.00	33.69	37.49	1,263.01
2014	234,044.45	50.00	4,680.89	39.36	184,262.23
2015	4,256.52	50.00	85.13	40.31	3,431.57
2016	45,239.43	50.00	904.79	41.26	37,331.39
2021	1,641.43	50.00	32.83	46.08	1,512.75
2022	431,044.32	50.00	8,620.88	47.06	405,663.01
2025	13,045.20	50.00	260.90	49.75	12,980.89
Total	6,654,795.80	50.00	133,095.85	35.90	4,778,310.14

Composite Average Remaining Life ... 35.90 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
382.00 Outfall Sewer Lines

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1957	12,139.53	50.00	242.79	4.10	996.12
1975	4,177.28	50.00	83.55	10.09	843.03
1993	192,691.50	50.00	3,853.83	21.34	82,249.81
2004	1,695.94	50.00	33.92	30.29	1,027.47
2005	9,240.93	50.00	184.82	31.16	5,759.64
2006	201,117.58	50.00	4,022.35	32.04	128,893.03
2009	26,051.26	50.00	521.02	34.73	18,097.74
2010	27,827.93	50.00	556.56	35.65	19,839.74
2014	100,305.10	50.00	2,006.10	39.36	78,969.79
2017	18,433.32	50.00	368.67	42.22	15,563.29
2023	33,315.31	50.00	666.31	48.03	32,005.70
Total	626,995.68	50.00	12,539.91	30.64	384,245.35

Composite Average Remaining Life ... 30.64 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
389.10 Other Plant - Intangibles

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2010	273,149.74	20.00	13,657.49	7.42	101,289.91
2013	8,814.50	20.00	440.73	9.25	4,077.71
2022	91,911.93	20.00	4,595.60	17.01	78,153.50
2023	1,990,538.30	20.00	99,526.92	18.00	1,791,588.38
2024	272,366.55	20.00	13,618.33	19.00	258,748.85
2025	22,280.04	20.00	1,114.00	19.75	22,001.54
Total	2,659,061.06	20.00	132,953.06	16.97	2,255,859.90

Composite Average Remaining Life ... 16.97 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
391.00 Transportation Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 14 *Survivor Curve:* L4

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1986	6,625.93	0.00	0.00	0.00	0.00
1987	468.88	0.00	0.00	0.00	0.00
1990	30,431.59	0.00	0.00	0.00	0.00
1991	21,931.10	0.00	0.00	0.00	0.00
2000	5,861.06	14.00	418.64	0.90	378.61
2001	22,361.85	14.00	1,597.24	1.03	1,641.20
2002	5,389.24	14.00	384.94	1.17	450.08
2005	3,310.52	14.00	236.46	1.67	395.30
2006	73,113.90	14.00	5,222.30	1.87	9,770.43
2011	149,228.96	14.00	10,658.97	2.78	29,644.59
2012	73,865.31	14.00	5,275.97	2.99	15,790.75
2013	62,726.96	14.00	4,480.40	3.35	15,013.65
2014	3,075.33	14.00	219.66	3.89	855.24
2016	2,423.80	14.00	173.12	5.36	928.14
2017	8,526.46	14.00	609.02	6.20	3,774.85
2018	927,895.26	14.00	66,276.73	7.09	469,864.48
2019	299,081.56	14.00	21,362.48	8.03	171,529.15
2020	26,190.18	14.00	1,870.68	9.01	16,846.58
2022	1,422,366.36	14.00	101,595.29	11.00	1,117,580.48
2023	1,165,809.58	14.00	83,270.22	12.00	999,269.13
2024	422,529.36	14.00	30,179.98	13.00	392,349.38
2025	3,630.70	14.00	259.33	13.75	3,565.87
Total	4,736,843.89	11.45	334,091.45	9.73	3,249,647.89

Composite Average Remaining Life ... 9.73 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
395.00 Power Operated Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *22* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2011	345,636.00	22.00	15,710.44	10.73	168,603.56
2015	3,257.24	22.00	148.05	13.61	2,015.11
2018	19,634.12	22.00	892.44	15.97	14,249.62
2022	64,677.17	22.00	2,939.82	19.33	56,835.84
2023	3,895.80	22.00	177.08	20.21	3,578.77
Total	437,100.33	22.00	19,867.84	12.35	245,282.89

Composite Average Remaining Life ... 12.35 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
354.30 Structures - SPP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1964	699,951.35	55.00	12,726.38	19.23	244,744.66
1969	27,685.26	55.00	503.37	21.42	10,783.53
1972	5,390.11	55.00	98.00	22.77	2,231.34
1979	312,467.50	55.00	5,681.22	26.01	147,771.10
1980	1,925,421.49	55.00	35,007.64	26.49	927,237.08
1981	1,006,124.74	55.00	18,293.16	26.97	493,302.75
1992	367,539.24	55.00	6,682.53	32.51	217,262.76
1999	101,094.83	55.00	1,838.09	36.36	66,832.76
2005	55,968.06	55.00	1,017.60	39.92	40,625.84
2010	464,545.22	55.00	8,446.27	43.13	364,323.23
2012	94,838.48	55.00	1,724.33	44.49	76,720.42
2013	22,305,947.27	55.00	405,562.40	45.19	18,328,232.09
2014	8,206,912.04	55.00	149,216.48	45.90	6,849,761.43
2016	592,801.05	55.00	10,778.19	47.37	510,603.77
2018	792,190.90	55.00	14,403.46	48.91	704,412.65
2023	9,247.84	55.00	168.14	53.11	8,929.36
Total	36,968,125.38	55.00	672,147.27	43.14	28,993,774.77

Composite Average Remaining Life ... 43.14 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1964	535,164.61	55.00	9,730.26	19.23	187,125.41
1965	1,945,016.40	55.00	35,363.91	19.66	695,421.46
1982	12,187,003.00	55.00	221,581.72	27.45	6,082,406.99
1993	445,465.16	55.00	8,099.36	33.04	267,639.35
1994	220,388.44	55.00	4,007.06	33.58	134,566.36
1995	91,800.02	55.00	1,669.09	34.12	56,957.29
2007	156,375.15	55.00	2,843.18	41.18	117,073.23
2011	840,813.68	55.00	15,287.51	43.81	669,721.33
2016	14,574.90	55.00	265.00	47.37	12,553.96
2017	164,519.97	55.00	2,991.27	48.13	143,967.57
2019	360,662.79	55.00	6,557.50	49.70	325,915.45
2022	54,845.32	55.00	997.19	52.22	52,071.49
2023	236,710.97	55.00	4,303.83	53.11	228,559.09
2024	9,360.58	55.00	170.19	54.03	9,195.72
2025	5,735.27	55.00	104.28	54.76	5,709.74
Total	17,268,436.26	55.00	313,971.35	28.63	8,988,884.43

Composite Average Remaining Life ... 28.63 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
354.70 Structures - General

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1966	150,591.59	55.00	2,738.03	20.10	55,035.80
1982	1,253,489.09	55.00	22,790.69	27.45	625,603.42
2003	636,629.39	55.00	11,575.07	38.70	447,997.21
2011	1,032,003.27	55.00	18,763.68	43.81	822,006.85
2012	725,865.41	55.00	13,197.54	44.49	587,195.18
2013	2,180,370.70	55.00	39,643.08	45.19	1,791,555.40
2015	123,582.58	55.00	2,246.95	46.63	104,779.45
2016	138,263.75	55.00	2,513.88	47.37	119,092.22
2020	9,183.01	55.00	166.96	50.52	8,434.51
2021	1,056,667.93	55.00	19,212.13	51.36	986,644.22
2023	54,982.48	55.00	999.68	53.11	53,088.99
2024	58,586.85	55.00	1,065.21	54.03	57,555.02
2025	30,548.67	55.00	555.43	54.76	30,412.71
Total	7,450,764.72	55.00	135,468.36	42.00	5,689,400.98

Composite Average Remaining Life ... 42.00 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
355.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1999	15,782.30	35.00	450.92	16.72	7,538.82
2000	52,360.25	35.00	1,496.00	17.23	25,769.00
2001	346,845.16	35.00	9,909.83	17.74	175,820.52
2005	41,623.25	35.00	1,189.23	19.93	23,703.21
2010	15,509.83	35.00	443.14	22.98	10,182.10
2013	621,166.53	35.00	17,747.57	25.00	443,703.09
2014	40,215.83	35.00	1,149.02	25.71	29,543.39
2016	74,060.67	35.00	2,116.01	27.19	57,538.92
2018	28,901.95	35.00	825.77	28.76	23,747.41
2021	63,989.80	35.00	1,828.28	31.28	57,183.42
2023	11,610.76	35.00	331.74	33.08	10,973.72
Total	1,312,066.33	35.00	37,487.51	23.09	865,703.59

Composite Average Remaining Life ... 23.09 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
360.10 Collection Sewers - Force Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1964	18,121.74	75.00	241.62	22.92	5,538.21
1969	43,735.32	75.00	583.14	26.23	15,297.45
1979	1,160,481.90	75.00	15,473.09	33.54	518,949.17
1980	3,297,197.01	75.00	43,962.63	34.31	1,508,451.94
2005	120,689.76	75.00	1,609.20	55.77	89,751.92
2010	48,159.59	75.00	642.13	60.46	38,825.79
2013	2,816,323.60	75.00	37,550.98	63.32	2,377,825.24
2016	85,454.40	75.00	1,139.39	66.21	75,438.37
2018	197,446.89	75.00	2,632.63	68.15	179,407.42
2023	76,315.55	75.00	1,017.54	73.03	74,313.60
2024	435,613.23	75.00	5,808.18	74.02	429,896.34
2025	135,260.74	75.00	1,803.48	74.75	134,816.84
Total	8,434,799.73	75.00	112,463.99	48.45	5,448,512.29

Composite Average Remaining Life ... 48.45 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1928	3,670,809.29	80.00	45,885.08	12.81	587,733.56
1935	4,054,172.45	80.00	50,677.12	15.07	763,498.52
1945	1,720,470.53	80.00	21,505.87	19.12	411,110.50
1954	1,192,673.98	80.00	14,908.41	23.68	353,056.41
1955	3,541,248.55	80.00	44,265.58	24.24	1,073,146.01
1960	5,245,097.78	80.00	65,563.68	27.19	1,782,358.62
1963	1,034,101.25	80.00	12,926.26	29.06	375,630.11
1964	2,087,631.13	80.00	26,095.37	29.70	775,056.17
1965	194,818.08	80.00	2,435.22	30.35	73,909.31
1967	445,174.85	80.00	5,564.68	31.67	176,240.03
1970	1,798,298.73	80.00	22,478.72	33.72	757,886.45
1972	271,964.18	80.00	3,399.55	35.12	119,377.70
1973	77,978.53	80.00	974.73	35.82	34,919.51
1974	3,493.19	80.00	43.66	36.54	1,595.52
1979	14,537,300.66	80.00	181,716.13	40.22	7,309,189.05
1980	24,752,207.00	80.00	309,402.37	40.98	12,678,722.41
1985	52,022.95	80.00	650.29	44.84	29,161.14
1986	92,289.52	80.00	1,153.62	45.63	52,643.41
1991	110,641.44	80.00	1,383.02	49.67	68,691.62
1993	844,291.83	80.00	10,553.64	51.32	541,624.84
1994	470,328.99	80.00	5,879.11	52.15	306,617.29
1997	196,094.90	80.00	2,451.18	54.68	134,039.99
1999	76,270.45	80.00	953.38	56.39	53,763.16
2000	296,086.72	80.00	3,701.08	57.26	211,908.76
2001	37,633.99	80.00	470.42	58.12	27,341.91
2002	705,945.41	80.00	8,824.31	58.99	520,561.78
2003	94,266.29	80.00	1,178.33	59.87	70,541.59

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
361.10 Collection Sewers - Gravity Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *80* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2004	360,348.06	80.00	4,504.35	60.75	273,623.77
2005	111,394.94	80.00	1,392.44	61.63	85,814.89
2006	283,846.47	80.00	3,548.08	62.52	221,811.17
2007	5,704,200.28	80.00	71,302.45	63.41	4,521,008.43
2008	119,976.66	80.00	1,499.71	64.30	96,434.69
2009	235,121.28	80.00	2,939.01	65.20	191,625.00
2010	245,614.00	80.00	3,070.17	66.10	202,944.42
2011	17,434.94	80.00	217.94	67.01	14,603.56
2012	3,758,914.22	80.00	46,986.39	67.92	3,191,177.89
2013	391,862.47	80.00	4,898.28	68.83	337,143.46
2014	4,329,447.37	80.00	54,118.05	69.74	3,774,407.82
2015	19,809.14	80.00	247.61	70.66	17,496.89
2016	567,236.31	80.00	7,090.45	71.58	507,567.70
2018	466,259.88	80.00	5,828.24	73.44	428,002.41
2019	113,400.85	80.00	1,417.51	74.37	105,415.44
2020	192,829.08	80.00	2,410.36	75.30	181,498.63
2021	285,118.60	80.00	3,563.98	76.23	271,698.12
2022	351,246.78	80.00	4,390.58	77.17	338,829.96
2023	276,325.50	80.00	3,454.07	78.11	269,803.52
2024	211,272.84	80.00	2,640.91	79.06	208,778.03
2025	24,802.09	80.00	310.03	79.76	24,728.85
Total	85,669,774.43	80.00	1,070,871.43	41.61	44,554,740.01

Composite Average Remaining Life ... 41.61 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1928	133,865.67	50.00	2,677.31	0.65	1,735.30
1935	143,174.69	50.00	2,863.49	1.88	5,382.35
1945	184,529.24	50.00	3,690.59	3.93	14,495.72
1954	139,704.99	50.00	2,794.10	6.05	16,906.64
1955	407,033.51	50.00	8,140.67	6.31	51,342.14
1960	620,219.48	50.00	12,404.39	7.66	95,009.70
1963	109,198.31	50.00	2,183.97	8.54	18,641.83
1964	318,195.84	50.00	6,363.92	8.84	56,257.17
1965	26,029.80	50.00	520.60	9.15	4,763.84
1967	40,650.83	50.00	813.02	9.79	7,961.54
1970	280,225.51	50.00	5,604.51	10.81	60,588.07
1972	6,428.29	50.00	128.57	11.53	1,482.31
1973	13,198.58	50.00	263.97	11.90	3,141.82
1979	2,334,731.47	50.00	46,694.63	14.34	669,726.25
1980	3,845,310.99	50.00	76,906.22	14.79	1,137,232.08
1985	33,655.06	50.00	673.10	17.20	11,575.39
1986	9,041.14	50.00	180.82	17.72	3,204.09
1991	15,507.95	50.00	310.16	20.56	6,376.25
1993	123,678.41	50.00	2,473.57	21.81	53,940.45
1994	54,667.75	50.00	1,093.36	22.46	24,553.33
1997	33,687.94	50.00	673.76	24.51	16,516.38
1999	14,806.12	50.00	296.12	25.98	7,692.00
2000	45,582.44	50.00	911.65	26.73	24,372.18
2001	30,843.97	50.00	616.88	27.51	16,970.90
2002	99,256.16	50.00	1,985.12	28.31	56,190.37
2003	478,019.08	50.00	9,560.38	29.12	278,383.85
2004	701,321.96	50.00	14,026.44	29.95	420,075.40

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2005	38,617.68	50.00	772.35	30.80	23,785.67
2006	57,803.90	50.00	1,156.08	31.66	36,602.01
2007	3,028.12	50.00	60.56	32.54	1,970.74
2008	78,067.79	50.00	1,561.36	33.44	52,205.75
2009	11,484.87	50.00	229.70	34.35	7,889.21
2010	56,286.57	50.00	1,125.73	35.27	39,704.07
2011	336,348.58	50.00	6,726.97	36.21	243,553.86
2012	485,107.87	50.00	9,702.16	37.15	360,464.27
2014	13,493.59	50.00	269.87	39.08	10,545.91
2016	103,973.56	50.00	2,079.47	41.03	85,327.91
2018	62,427.36	50.00	1,248.55	43.01	53,701.73
2019	62,386.02	50.00	1,247.72	44.01	54,906.93
2020	16,501.98	50.00	330.04	45.00	14,852.64
2021	140,858.75	50.00	2,817.18	46.00	129,592.74
2022	219,114.43	50.00	4,382.29	47.00	205,968.71
2023	49,274.81	50.00	985.50	48.00	47,303.85
2024	88,498.50	50.00	1,769.97	49.00	86,728.54
2025	138,059.82	50.00	2,761.20	49.75	137,369.51
Total	12,203,899.38	50.00	244,078.00	19.08	4,656,991.37

Composite Average Remaining Life ... 19.08 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1930	488,889.07	0.00	0.00	0.00	0.00
1935	529,809.03	0.00	0.00	0.00	0.00
1945	462,171.02	0.00	0.00	0.00	0.00
1954	97,074.56	47.00	2,065.42	2.05	4,244.30
1955	652,096.94	47.00	13,874.44	2.31	32,010.17
1960	798,378.67	47.00	16,986.82	3.58	60,759.01
1965	15,638.55	47.00	332.74	4.89	1,625.50
1967	3,867.13	47.00	82.28	5.43	447.17
1969	86,681.44	47.00	1,844.29	6.03	11,121.01
1970	120,397.57	47.00	2,561.66	6.35	16,256.97
1972	1,344.47	47.00	28.61	7.02	200.91
1973	4,549.23	47.00	96.79	7.39	714.96
1979	22,062.14	47.00	469.41	9.96	4,677.38
1980	4,290,203.02	47.00	91,281.15	10.46	955,164.30
1985	679.28	47.00	14.45	13.26	191.66
1986	3,713.98	47.00	79.02	13.88	1,096.51
1991	6,171.80	47.00	131.32	17.20	2,258.87
1993	68,221.47	47.00	1,451.52	18.64	27,049.76
1994	88,444.00	47.00	1,881.79	19.37	36,454.41
1997	11,311.99	47.00	240.68	21.66	5,212.49
1999	17,055.37	47.00	362.88	23.24	8,434.02
2000	70,788.27	47.00	1,506.14	24.05	36,222.60
2001	52,826.26	47.00	1,123.97	24.87	27,951.88
2002	397,749.97	47.00	8,462.79	25.70	217,481.15
2003	75,513.19	47.00	1,606.67	26.54	42,638.39
2004	56,349.51	47.00	1,198.93	27.39	32,836.69
2005	36,547.89	47.00	777.62	28.25	21,966.22

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *47* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2006	38,274.75	47.00	814.36	29.12	23,713.36
2007	108,254.08	47.00	2,303.28	30.00	69,093.73
2008	36,663.45	47.00	780.08	30.89	24,093.19
2009	58,634.46	47.00	1,247.54	31.78	39,649.64
2010	27,404.34	47.00	583.07	32.69	19,058.81
2011	70,810.82	47.00	1,506.62	33.60	50,621.65
2012	1,689,929.08	47.00	35,956.03	34.52	1,241,195.55
2014	375,878.55	47.00	7,997.44	36.38	290,968.19
2016	56,816.46	47.00	1,208.86	38.27	46,263.76
2018	20,419.84	47.00	434.47	40.18	17,457.13
2019	134,135.44	47.00	2,853.95	41.14	117,420.85
2020	45,565.53	47.00	969.48	42.11	40,825.10
2021	266,093.03	47.00	5,661.57	43.08	243,907.76
2022	121,967.53	47.00	2,595.06	44.06	114,329.62
2024	87,946.02	47.00	1,871.20	46.02	86,104.98
2025	237,575.47	47.00	5,054.81	46.75	236,329.77
Total	11,834,904.67	43.72	220,299.18	19.10	4,208,049.43

Composite Average Remaining Life ... 19.10 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
364.00 Flow Measuring Devices

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *15* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1999	176,385.00	15.00	11,758.97	3.19	37,474.31
2012	40,821.83	15.00	2,721.45	6.34	17,262.48
2023	10,799.01	15.00	719.93	13.03	9,383.93
2024	9,612.38	15.00	640.82	14.00	8,974.57
Total	237,618.22	15.00	15,841.17	4.61	73,095.29

Composite Average Remaining Life ... 4.61 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
371.00 Pumping Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *30* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1964	125,073.63	0.00	0.00	0.00	0.00
1969	1,842.43	30.00	61.41	1.44	88.73
1972	61,400.84	30.00	2,046.69	2.44	5,000.11
1981	890,691.67	30.00	29,689.66	5.47	162,509.31
1999	897,139.70	30.00	29,904.59	12.55	375,249.94
2004	17,393.60	30.00	579.79	14.99	8,688.43
2005	38,922.09	30.00	1,297.40	15.51	20,121.74
2009	135,459.23	30.00	4,515.30	17.75	80,146.24
2010	163,846.33	30.00	5,461.53	18.35	100,216.95
2011	467,265.18	30.00	15,575.47	18.97	295,413.94
2013	2,878,328.18	30.00	95,944.07	20.26	1,943,659.09
2015	52,657.14	30.00	1,755.23	21.63	37,967.24
2016	283,314.69	30.00	9,443.80	22.35	211,064.95
2018	301,860.16	30.00	10,061.98	23.86	240,063.80
2019	49,323.67	30.00	1,644.12	24.65	40,527.25
2023	20,951.62	30.00	698.39	28.09	19,617.67
2024	310,264.30	30.00	10,342.12	29.03	300,200.50
2025	5,481.61	30.00	182.72	29.75	5,436.27
Total	6,701,216.07	28.33	219,204.29	17.55	3,845,972.14

Composite Average Remaining Life ... 17.55 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
380.00 Treatment Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1966	215,682.63	35.00	6,162.36	2.86	17,625.42
1982	7,765,160.87	35.00	221,861.72	7.23	1,603,820.20
1991	234,030.48	35.00	6,686.58	10.46	69,947.27
1992	47,323.40	35.00	1,352.10	10.88	14,706.68
1993	2,255,219.63	35.00	64,434.84	11.31	728,544.06
1998	545,786.75	35.00	15,593.91	13.68	213,376.95
2000	563,180.56	35.00	16,090.87	14.75	237,396.11
2011	916,479.66	35.00	26,185.13	22.12	579,119.77
2014	3,866,902.42	35.00	110,482.92	24.59	2,716,922.36
2016	33,556.41	35.00	958.75	26.35	25,258.54
2018	20,106.03	35.00	574.46	28.18	16,185.70
2019	7,244,673.55	35.00	206,990.66	29.12	6,026,697.54
2020	212,101.75	35.00	6,060.05	30.07	182,229.60
2021	198,452.19	35.00	5,670.06	31.04	175,990.25
2022	350,562.80	35.00	10,016.08	32.02	320,685.11
2023	29,625.40	35.00	846.44	33.01	27,937.19
2024	621,509.55	35.00	17,757.41	34.00	603,766.04
2025	240,370.41	35.00	6,867.73	34.75	238,653.28
Total	25,360,724.49	35.00	724,592.08	19.04	13,798,862.06

Composite Average Remaining Life ... 19.04 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
382.00 Outfall Sewer Lines

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1965	73,525.14	50.00	1,470.50	6.29	9,242.17
Total	73,525.14	50.00	1,470.50	6.29	9,242.17

Composite Average Remaining Life ... 6.29 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
391.00 Transportation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *14* ***Survivor Curve:*** *L4*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2011	119,487.15	14.00	8,534.60	2.78	23,736.33
2014	13,147.84	14.00	939.11	3.89	3,656.38
2017	21,007.05	14.00	1,500.47	6.20	9,300.27
2018	31,168.11	14.00	2,226.24	7.09	15,782.80
2019	27,488.89	14.00	1,963.45	8.03	15,765.42
2020	28,863.43	14.00	2,061.63	9.01	18,566.12
2022	75,954.78	14.00	5,425.22	11.00	59,679.12
2023	68,311.66	14.00	4,879.29	12.00	58,553.07
2024	189,347.17	14.00	13,524.49	13.00	175,822.68
2025	99,173.31	14.00	7,083.65	13.75	97,402.40
Total	673,949.39	14.00	48,138.15	9.94	478,264.59

Composite Average Remaining Life ... 9.94 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
395.00 Power Operated Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *22* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1993	18,154.62	22.00	825.20	2.48	2,045.11
1997	39,291.32	22.00	1,785.94	3.70	6,613.46
2000	14,790.15	22.00	672.27	4.79	3,219.24
2001	2,322.53	22.00	105.57	5.20	548.64
2004	4,697.67	22.00	213.53	6.58	1,405.28
2011	22,500.91	22.00	1,022.75	10.73	10,976.09
2012	17,502.58	22.00	795.56	11.42	9,086.14
2015	35,730.49	22.00	1,624.08	13.61	22,104.87
2018	25,218.04	22.00	1,146.25	15.97	18,302.19
2019	7,634.66	22.00	347.02	16.79	5,825.21
2021	452,466.57	22.00	20,566.29	18.47	379,859.98
2023	11,478.29	22.00	521.73	20.21	10,544.22
Total	651,787.83	22.00	29,626.19	15.88	470,530.44

Composite Average Remaining Life ... 15.88 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.20 Structures - Collection

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *45* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2017	984,312.76	45.00	21,873.61	37.23	814,331.44
2018	1,927,982.08	45.00	42,844.03	38.18	1,635,992.64
2019	1,211,517.34	45.00	26,922.59	39.15	1,053,930.34
2020	173,808.85	45.00	3,862.42	40.11	154,931.77
2021	222,041.86	45.00	4,934.26	41.08	202,713.80
2022	2,205,419.74	45.00	49,009.30	42.06	2,061,188.51
2023	7,951,251.02	45.00	176,694.38	43.04	7,604,081.40
2024	29,623,753.60	45.00	658,305.32	44.02	28,976,106.69
2025	36,515.37	45.00	811.45	44.75	36,315.42
Total	44,336,602.62	45.00	985,257.37	43.18	42,539,592.02

Composite Average Remaining Life ... 43.18 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.30 Structures - SPP
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1960	2,307,540.06	55.00	41,955.24	17.52	735,040.02
1968	671,326.79	55.00	12,205.93	20.98	256,074.95
1970	60,405.27	55.00	1,098.28	21.87	24,017.75
1972	430,021.03	55.00	7,818.56	22.77	178,015.67
1990	89,924.53	55.00	1,634.99	31.46	51,441.01
1995	131,932.60	55.00	2,398.77	34.12	81,857.54
1996	344,568.73	55.00	6,264.88	34.67	217,230.35
2000	105,072.37	55.00	1,910.41	36.94	70,560.87
2004	244,354.55	55.00	4,442.81	39.31	174,643.26
2005	52,725.90	55.00	958.65	39.92	38,272.44
2006	2,611,533.23	55.00	47,482.39	40.54	1,925,141.62
2011	7,145.91	55.00	129.93	43.81	5,691.83
2012	7,147.63	55.00	129.96	44.49	5,782.14
2013	148,319.26	55.00	2,696.71	45.19	121,870.18
2014	10,489,746.72	55.00	190,722.54	45.90	8,755,091.09
2015	40,952.90	55.00	744.60	46.63	34,721.90
2017	762,725.81	55.00	13,867.73	48.13	667,443.47
2018	1,526,953.41	55.00	27,762.77	48.91	1,357,760.23
2019	446,541.64	55.00	8,118.93	49.70	403,520.47
2020	2,544,665.64	55.00	46,266.62	50.52	2,337,251.06
2021	237,091.40	55.00	4,310.75	51.36	221,379.73
2023	2,377,007.71	55.00	43,218.29	53.11	2,295,148.02
2024	193,229.75	55.00	3,513.27	54.03	189,826.60
2025	11,393.77	55.00	207.16	54.76	11,343.06

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.30 Structures - SPP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	25,842,326.61	55.00	469,860.16	42.90	20,159,125.24

Composite Average Remaining Life ... 42.90 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1960	10,599,624.45	55.00	192,720.31	17.52	3,376,386.98
1972	12,693,053.48	55.00	230,782.63	22.77	5,254,539.24
1975	17,981,926.22	55.00	326,943.89	24.14	7,892,194.53
1985	1,204,742.75	55.00	21,904.40	28.92	633,537.46
1993	12,736.38	55.00	231.57	33.04	7,652.13
1994	101,865.06	55.00	1,852.09	33.58	62,197.50
1995	8,797,962.75	55.00	159,962.85	34.12	5,458,693.22
1996	2,958,647.48	55.00	53,793.55	34.67	1,865,253.46
1999	75,887.27	55.00	1,379.77	36.36	50,168.30
2001	236,542.84	55.00	4,300.78	37.52	161,348.41
2003	1,461,646.93	55.00	26,575.38	38.70	1,028,563.49
2004	367,499.67	55.00	6,681.81	39.31	262,656.62
2006	131,140.18	55.00	2,384.37	40.54	96,672.49
2007	18,890.83	55.00	343.47	41.18	14,142.98
2008	402,043.27	55.00	7,309.87	41.82	305,691.38
2009	16,621.70	55.00	302.21	42.47	12,835.35
2010	12,094,530.43	55.00	219,900.40	43.13	9,485,230.24
2011	393,025.03	55.00	7,145.90	43.81	313,050.62
2012	282,267.24	55.00	5,132.13	44.49	228,342.55
2013	8,325.00	55.00	151.36	45.19	6,840.44
2014	16,814,574.82	55.00	305,719.33	45.90	14,034,002.73
2015	5,371,118.78	55.00	97,656.64	46.63	4,553,901.24
2016	19,818,007.39	55.00	360,327.16	47.37	17,070,059.64
2017	3,090,389.28	55.00	56,188.86	48.13	2,704,327.19
2018	101,683.42	55.00	1,848.79	48.91	90,416.45
2019	265,878.40	55.00	4,834.15	49.70	240,262.87
2020	1,060,026.32	55.00	19,273.19	50.52	973,624.04

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2021	16,913,734.53	55.00	307,522.23	51.36	15,792,888.18
2022	975,108.52	55.00	17,729.23	52.22	925,791.97
2023	37,310.78	55.00	678.38	53.11	36,025.87
2024	30,884.14	55.00	561.53	54.03	30,340.21
2025	2,525,732.72	55.00	45,922.38	54.76	2,514,491.65
Total	136,843,428.06	55.00	2,488,060.60	38.38	95,482,129.43

Composite Average Remaining Life ... 38.38 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
355.00 Power Generation Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1991	21,067.56	35.00	601.93	13.01	7,829.12
2002	19,740.16	35.00	564.00	18.27	10,304.92
2004	38,295.54	35.00	1,094.16	19.37	21,188.59
2012	403,177.35	35.00	11,519.32	24.31	280,017.43
2015	426,122.43	35.00	12,174.89	26.44	321,916.38
2020	22,037.01	35.00	629.63	30.41	19,149.28
2021	1,986.71	35.00	56.76	31.28	1,775.39
2024	2,289,043.09	35.00	65,401.05	34.02	2,225,161.52
Total	3,221,469.85	35.00	92,041.75	31.37	2,887,342.62

Composite Average Remaining Life ... 31.37 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
360.10 Collection Sewers - Force Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 75 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1955	1,834.70	75.00	24.46	17.64	431.52
1960	17,379.90	75.00	231.73	20.45	4,740.04
1972	234,615.90	75.00	3,128.21	28.34	88,640.49
1989	4,590.34	75.00	61.20	41.60	2,545.87
1995	333,428.74	75.00	4,445.72	46.75	207,816.23
1996	180,459.83	75.00	2,406.13	47.62	114,588.12
2004	32,074.48	75.00	427.66	54.85	23,457.06
2015	1,168,459.93	75.00	15,579.47	65.24	1,016,472.72
2018	135,690.81	75.00	1,809.21	68.15	123,293.60
2019	37,085.16	75.00	494.47	69.12	34,177.85
2020	832,091.90	75.00	11,094.56	70.10	777,674.10
2021	671,346.60	75.00	8,951.29	71.07	636,192.58
2022	4,425,582.14	75.00	59,007.76	72.05	4,251,613.65
2023	6,485,350.26	75.00	86,471.33	73.03	6,315,223.14
2024	2,967,781.33	75.00	39,570.42	74.02	2,928,832.82
Total	17,527,772.02	75.00	233,703.62	70.71	16,525,699.80

Composite Average Remaining Life ... 70.71 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 *Survivor Curve:* R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1938	833,176.70	80.00	10,414.70	16.17	168,404.25
1945	209,851.74	80.00	2,623.14	19.12	50,144.57
1950	876,568.41	80.00	10,957.10	21.55	236,079.30
1955	16,947,767.54	80.00	211,846.95	24.24	5,135,880.42
1959	56,041,493.45	80.00	700,518.18	26.57	18,615,844.26
1960	1,043,301.20	80.00	13,041.26	27.19	354,528.54
1962	11,518,386.30	80.00	143,979.73	28.42	4,092,478.14
1963	27,097,985.26	80.00	338,724.58	29.06	9,843,155.27
1965	638,127.31	80.00	7,976.59	30.35	242,090.21
1968	1,806,188.42	80.00	22,577.34	32.35	730,333.83
1970	751,560.29	80.00	9,394.50	33.72	316,742.35
1972	15,304,008.47	80.00	191,299.97	35.12	6,717,639.53
1973	517,337.40	80.00	6,466.71	35.82	231,668.46
1974	457,111.24	80.00	5,713.89	36.54	208,786.81
1975	2,132,433.52	80.00	26,655.40	37.26	993,236.54
1976	35,466,245.60	80.00	443,327.76	37.99	16,844,216.63
1977	313,994.11	80.00	3,924.92	38.73	152,014.88
1978	818,922.39	80.00	10,236.52	39.47	404,060.32
1979	864,384.51	80.00	10,804.80	40.22	434,602.68
1980	1,407,555.32	80.00	17,594.43	40.98	720,986.34
1981	663,781.30	80.00	8,297.26	41.74	346,318.13
1982	495,753.11	80.00	6,196.91	42.51	263,401.45
1983	365,157.06	80.00	4,564.46	43.28	197,537.81
1984	636,254.98	80.00	7,953.18	44.06	350,410.44
1985	1,571,332.24	80.00	19,641.64	44.84	880,800.43
1986	739,759.61	80.00	9,246.99	45.63	421,970.62
1987	686,531.82	80.00	8,581.64	46.43	398,454.20

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *80* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1988	275,257.69	80.00	3,440.72	47.23	162,513.97
1989	24,437,646.26	80.00	305,470.36	48.04	14,674,578.78
1990	2,840,779.70	80.00	35,509.72	48.85	1,734,688.94
1991	1,100,766.48	80.00	13,759.57	49.67	683,409.73
1992	2,102,271.26	80.00	26,278.37	50.49	1,326,882.88
1993	357,995.25	80.00	4,474.94	51.32	229,658.88
1994	941,729.89	80.00	11,771.62	52.15	613,933.38
1995	2,276,458.62	80.00	28,455.71	52.99	1,507,960.63
1996	3,458,334.01	80.00	43,229.14	53.84	2,327,294.48
1997	220,445.94	80.00	2,755.57	54.68	150,685.06
1998	1,443,654.89	80.00	18,045.67	55.54	1,002,180.30
1999	9,409,696.47	80.00	117,621.12	56.39	6,632,910.30
2000	300,950.63	80.00	3,761.88	57.26	215,389.85
2001	543,534.45	80.00	6,794.18	58.12	394,889.54
2002	156,924.96	80.00	1,961.56	58.99	115,715.94
2003	19,520.22	80.00	244.00	59.87	14,607.42
2004	1,784,624.89	80.00	22,307.80	60.75	1,355,122.59
2005	1,337,027.70	80.00	16,712.83	61.63	1,030,000.91
2006	1,123,901.91	80.00	14,048.76	62.52	878,270.54
2007	4,883,155.84	80.00	61,039.41	63.41	3,870,268.86
2008	2,340,117.90	80.00	29,251.45	64.30	1,880,937.06
2009	9,135,819.13	80.00	114,197.66	65.20	7,445,737.39
2010	3,736,525.58	80.00	46,706.54	66.10	3,087,393.36
2011	3,662,994.20	80.00	45,787.40	67.01	3,068,134.74
2012	259,675.51	80.00	3,245.94	67.92	220,454.82
2013	436,419.34	80.00	5,455.24	68.83	375,478.48
2014	1,121,719.09	80.00	14,021.48	69.74	977,913.56

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.10 Collection Sewers - Gravity Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *80* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2015	16,178.80	80.00	202.23	70.66	14,290.31
2016	12,848,487.71	80.00	160,605.98	71.58	11,496,932.17
2017	6,871,493.85	80.00	85,893.61	72.51	6,228,055.80
2018	3,793,202.85	80.00	47,415.00	73.44	3,481,963.71
2019	37,918,557.67	80.00	473,981.64	74.37	35,248,426.39
2020	26,291,831.99	80.00	328,647.67	75.30	24,746,949.81
2021	11,232,426.03	80.00	140,405.23	76.23	10,703,717.88
2022	11,300,125.46	80.00	141,251.47	77.17	10,900,658.08
2023	44,300,863.63	80.00	553,760.41	78.11	43,255,250.83
2024	15,020,372.62	80.00	187,754.53	79.06	14,843,004.73
2025	2,248,192.12	80.00	28,102.38	79.76	2,241,553.59
Total	431,754,649.84	80.00	5,396,929.35	53.45	288,489,602.14

Composite Average Remaining Life ... 53.45 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1918	192,002.76	0.00	0.00	0.00	0.00
1938	263,057.70	50.00	5,261.15	2.46	12,963.52
1945	40,698.28	50.00	813.97	3.93	3,197.06
1950	100,436.85	50.00	2,008.74	5.07	10,182.98
1955	82,962.76	50.00	1,659.26	6.31	10,464.71
1959	10,519,036.90	50.00	210,380.75	7.38	1,552,314.44
1960	124,835.20	50.00	2,496.70	7.66	19,123.16
1963	1,816,090.25	50.00	36,321.81	8.54	310,034.45
1965	115,835.77	50.00	2,316.72	9.15	21,199.66
1968	62,128.41	50.00	1,242.57	10.12	12,580.11
1970	131,490.13	50.00	2,629.80	10.81	28,429.72
1972	1,406,333.16	50.00	28,126.67	11.53	324,288.08
1973	300,514.18	50.00	6,010.28	11.90	71,535.02
1974	145,131.67	50.00	2,902.63	12.28	35,655.40
1975	428,835.35	50.00	8,576.71	12.68	108,710.07
1976	1,216,546.67	50.00	24,330.94	13.08	318,154.97
1977	135,672.33	50.00	2,713.45	13.49	36,597.71
1978	365,240.42	50.00	7,304.81	13.91	101,606.81
1979	376,391.09	50.00	7,527.82	14.34	107,969.16
1980	344,640.29	50.00	6,892.81	14.79	101,925.69
1981	303,876.29	50.00	6,077.53	15.24	92,644.10
1982	241,192.22	50.00	4,823.84	15.71	75,794.66
1983	167,201.76	50.00	3,344.04	16.19	54,153.41
1984	193,153.85	50.00	3,863.08	16.69	64,469.92
1985	425,383.15	50.00	8,507.66	17.20	146,307.12
1986	362,362.31	50.00	7,247.25	17.72	128,417.75
1987	251,003.20	50.00	5,020.06	18.26	91,648.62

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1988	96,404.18	50.00	1,928.08	18.81	36,264.08
1989	1,480,246.96	50.00	29,604.94	19.38	573,614.44
1990	1,029,539.70	50.00	20,590.80	19.96	410,965.79
1991	480,597.06	50.00	9,611.94	20.56	197,602.35
1992	446,706.85	50.00	8,934.14	21.17	189,170.45
1993	106,820.01	50.00	2,136.40	21.81	46,587.92
1994	172,867.94	50.00	3,457.36	22.46	77,641.46
1995	493,617.84	50.00	9,872.36	23.12	228,294.24
1996	766,628.21	50.00	15,332.57	23.81	365,070.78
1997	99,518.88	50.00	1,990.38	24.51	48,791.68
1998	667,600.22	50.00	13,352.01	25.24	336,945.89
1999	377,718.65	50.00	7,554.37	25.98	196,230.35
2001	40,263.23	50.00	805.26	27.51	22,153.54
2004	391,028.74	50.00	7,820.58	29.95	234,217.04
2005	622,671.32	50.00	12,453.43	30.80	383,520.00
2006	485,376.83	50.00	9,707.54	31.66	307,345.49
2007	261,475.47	50.00	5,229.51	32.54	170,171.83
2008	302,656.61	50.00	6,053.13	33.44	202,393.52
2010	100,531.28	50.00	2,010.63	35.27	70,913.91
2011	258,381.57	50.00	5,167.63	36.21	187,097.05
2012	100,205.47	50.00	2,004.11	37.15	74,458.68
2013	16,187.94	50.00	323.76	38.11	12,338.68
2014	101,870.38	50.00	2,037.41	39.08	79,616.79
2016	19,978.89	50.00	399.58	41.03	16,396.06
2019	46,757.52	50.00	935.15	44.01	41,152.04
2020	883,019.13	50.00	17,660.38	45.00	794,762.95
2021	904,384.65	50.00	18,087.69	46.00	832,051.13

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	2,203,271.10	50.00	44,065.42	47.00	2,071,086.34
2023	4,897,474.91	50.00	97,949.50	48.00	4,701,579.59
2024	4,306,744.15	50.00	86,134.89	49.00	4,220,609.77
2025	3,315,430.70	50.00	66,308.62	49.75	3,298,853.35
Total	45,588,029.34	49.14	907,920.59	26.73	24,268,265.48

Composite Average Remaining Life ... 26.73 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1938	143,054.88	0.00	0.00	0.00	0.00
1945	22,073.48	0.00	0.00	0.00	0.00
1950	56,278.80	47.00	1,197.42	1.11	1,325.59
1955	48,679.71	47.00	1,035.74	2.31	2,389.59
1960	76,154.48	47.00	1,620.31	3.58	5,795.58
1965	78,429.72	47.00	1,668.72	4.89	8,152.14
1970	106,824.27	47.00	2,272.86	6.35	14,424.21
1972	579,573.92	47.00	12,331.39	7.02	86,607.47
1973	116,887.81	47.00	2,486.98	7.39	18,370.04
1974	139,735.00	47.00	2,973.09	7.77	23,093.15
1975	332,974.60	47.00	7,084.58	8.17	57,863.21
1977	107,076.26	47.00	2,278.22	9.03	20,563.09
1978	281,896.00	47.00	5,997.80	9.49	56,889.60
1979	300,946.68	47.00	6,403.14	9.96	63,803.54
1980	266,091.96	47.00	5,661.55	10.46	59,242.31
1981	234,753.75	47.00	4,994.77	10.98	54,860.85
1982	190,062.15	47.00	4,043.89	11.53	46,608.69
1983	132,799.92	47.00	2,825.54	12.09	34,147.48
1984	157,785.94	47.00	3,357.16	12.66	42,514.83
1985	324,685.98	47.00	6,908.23	13.26	91,610.76
1986	295,474.98	47.00	6,286.72	13.88	87,235.84
1987	205,043.94	47.00	4,362.65	14.51	63,296.15
1988	70,509.94	47.00	1,500.22	15.16	22,739.94
1989	746,798.97	47.00	15,889.38	15.82	251,417.07
1990	832,608.91	47.00	17,715.13	16.51	292,407.53
1991	393,283.11	47.00	8,367.75	17.20	143,940.88
1992	531,951.61	47.00	11,318.15	17.91	202,728.61

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1994	66,342.64	47.00	1,411.55	19.37	27,344.78
1995	100,262.25	47.00	2,133.24	20.12	42,924.42
1996	265,445.95	47.00	5,647.80	20.88	117,945.65
1997	87,126.12	47.00	1,853.75	21.66	40,147.17
1998	573,379.95	47.00	12,199.60	22.44	273,816.73
1999	165,344.70	47.00	3,517.98	23.24	81,764.33
2000	12,081.20	47.00	257.05	24.05	6,181.99
2004	188,269.92	47.00	4,005.75	27.39	109,710.98
2005	502,155.36	47.00	10,684.18	28.25	301,808.25
2006	406,003.36	47.00	8,638.39	29.12	251,541.93
2007	228,819.60	47.00	4,868.51	30.00	146,045.30
2008	64,952.16	47.00	1,381.96	30.89	42,682.96
2009	79,573.30	47.00	1,693.05	31.78	53,808.85
2011	170,969.39	47.00	3,637.66	33.60	122,223.59
2012	79,926.00	47.00	1,700.56	34.52	58,702.93
2013	16,092.23	47.00	342.39	35.45	12,136.76
2014	58,450.63	47.00	1,243.63	36.38	45,246.73
2016	134,440.98	47.00	2,860.45	38.27	109,470.84
2017	192,421.86	47.00	4,094.09	39.22	160,582.39
2018	202,105.13	47.00	4,300.12	40.18	172,781.73
2019	302,505.57	47.00	6,436.30	41.14	264,810.41
2020	1,411,244.70	47.00	30,026.56	42.11	1,264,425.39
2021	1,065,892.84	47.00	22,678.63	43.08	977,024.98
2022	1,077,994.36	47.00	22,936.11	44.06	1,010,487.66
2023	1,319,744.29	47.00	28,079.74	45.03	1,264,565.55
2024	2,095,111.46	47.00	44,576.95	46.02	2,051,252.81
2025	1,546,399.87	47.00	32,902.21	46.75	1,538,291.50

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *47* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	19,185,492.59	45.26	404,689.62	30.39	12,299,754.77

Composite Average Remaining Life ... 30.39 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
364.00 Flow Measuring Devices
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 15 **Survivor Curve:** L2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1960	34,668.83	0.00	0.00	0.00	0.00
1996	10,667.26	15.00	711.15	2.55	1,815.14
1998	11,518.92	15.00	767.93	2.97	2,280.46
2008	91,182.72	15.00	6,078.83	5.37	32,628.70
2010	110,716.42	15.00	7,381.08	5.85	43,163.85
2011	38,771.91	15.00	2,584.79	6.09	15,740.68
2013	175,978.36	15.00	11,731.86	6.62	77,647.17
2015	40,642.36	15.00	2,709.48	7.29	19,765.12
2016	442,654.44	15.00	29,510.22	7.73	228,085.35
2017	160,544.63	15.00	10,702.95	8.25	88,285.13
2018	43,907.33	15.00	2,927.15	8.86	25,946.19
2019	859,930.78	15.00	57,328.57	9.58	549,076.17
2020	72,459.17	15.00	4,830.60	10.37	50,095.52
2022	98,651.86	15.00	6,576.77	12.10	79,594.42
2023	407,174.77	15.00	27,144.92	13.03	353,819.57
2024	8,460.60	15.00	564.04	14.00	7,899.21
Total	2,607,930.36	14.06	171,550.33	9.19	1,575,842.68

Composite Average Remaining Life ... 9.19 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
371.00 Pumping Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 30 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1991	10,165.98	30.00	338.87	9.15	3,100.34
1996	865,081.19	30.00	28,835.98	11.21	323,289.57
1997	12,345.74	30.00	411.52	11.65	4,793.36
2001	72,361.53	30.00	2,412.05	13.49	32,536.49
2002	53,105.57	30.00	1,770.18	13.98	24,739.72
2004	392,031.81	30.00	13,067.70	14.99	195,827.20
2005	8,726.79	30.00	290.89	15.51	4,511.53
2006	400,949.09	30.00	13,364.94	16.05	214,472.89
2007	12,937.95	30.00	431.26	16.60	7,158.69
2008	17,844.66	30.00	594.82	17.17	10,210.80
2009	463,548.76	30.00	15,451.59	17.75	274,264.72
2010	701,547.03	30.00	23,384.85	18.35	429,102.72
2011	128,559.92	30.00	4,285.32	18.97	81,278.03
2012	1,573,089.45	30.00	52,436.21	19.60	1,027,919.47
2013	413,699.69	30.00	13,789.96	20.26	279,360.49
2014	92,722.35	30.00	3,090.74	20.93	64,699.27
2015	3,940,792.51	30.00	131,359.48	21.63	2,841,419.28
2016	1,201,307.47	30.00	40,043.50	22.35	894,955.00
2017	85,221.90	30.00	2,840.72	23.09	65,595.69
2018	1,331,946.38	30.00	44,398.12	23.86	1,059,272.31
2019	444,357.51	30.00	14,811.89	24.65	365,110.42
2020	1,329,556.93	30.00	44,318.47	25.47	1,128,664.19
2021	320,418.37	30.00	10,680.59	26.31	281,042.43
2022	640,944.19	30.00	21,364.76	27.19	580,841.29
2023	2,438,935.71	30.00	81,297.69	28.09	2,283,652.79
2024	622,970.96	30.00	20,765.66	29.03	602,764.14
2025	366,718.64	30.00	12,223.93	29.75	363,685.70

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
371.00 Pumping Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *30* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	17,941,888.08	30.00	598,061.68	22.48	13,444,268.54

Composite Average Remaining Life ... 22.48 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
380.00 Treatment Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S1.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1960	266,178.48	35.00	7,605.10	1.36	10,309.95
1968	473,334.30	35.00	13,523.84	3.36	45,401.53
1975	15,036,892.82	35.00	429,625.48	5.18	2,225,650.09
1987	1,471,100.21	35.00	42,031.43	8.92	374,948.12
1988	442,565.45	35.00	12,644.73	9.29	117,447.14
1990	26,054.86	35.00	744.42	10.06	7,487.24
1994	141,818.41	35.00	4,051.95	11.75	47,611.25
1995	5,111,106.19	35.00	146,031.60	12.21	1,782,941.17
1996	35,212.21	35.00	1,006.06	12.68	12,760.97
1997	1,947.81	35.00	55.65	13.18	733.22
1999	1,062,894.00	35.00	30,368.40	14.21	431,511.24
2001	1,637,450.09	35.00	46,784.29	15.32	716,526.77
2002	197,596.78	35.00	5,645.62	15.90	89,759.32
2003	91,094.17	35.00	2,602.69	16.50	42,951.19
2004	3,939,642.25	35.00	112,561.20	17.13	1,927,854.79
2006	11,515.96	35.00	329.03	18.44	6,067.54
2007	294,504.54	35.00	8,414.41	19.13	160,974.14
2008	1,126,803.13	35.00	32,194.37	19.84	638,789.66
2009	55,372.86	35.00	1,582.08	20.58	32,554.90
2010	24,214.50	35.00	691.84	21.34	14,760.82
2012	120,670.02	35.00	3,447.71	22.92	79,020.08
2013	49,252.10	35.00	1,407.20	23.74	33,413.65
2014	29,087.99	35.00	831.09	24.59	20,437.50
2015	11,568,792.25	35.00	330,536.90	25.46	8,414,623.89
2016	4,105,660.46	35.00	117,304.58	26.35	3,090,407.27
2017	2,377,540.48	35.00	67,929.72	27.25	1,851,194.88
2018	1,075,745.89	35.00	30,735.59	28.18	865,994.20

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
380.00 Treatment Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2019	167,428.01	35.00	4,783.66	29.12	139,279.98
2020	9,823,261.02	35.00	280,664.58	30.07	8,439,765.03
2021	2,379,170.70	35.00	67,976.30	31.04	2,109,882.69
2022	15,610,807.82	35.00	446,023.05	32.02	14,280,333.19
2023	3,973,362.72	35.00	113,524.64	33.01	3,746,940.10
2024	841,226.19	35.00	24,035.03	34.00	817,209.97
2025	152,990.22	35.00	4,371.15	34.75	151,897.31
Total	83,722,294.89	35.00	2,392,065.40	22.04	52,727,440.76

Composite Average Remaining Life ... 22.04 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
381.00 Plant Sewers

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1995	874,635.54	50.00	17,492.70	22.88	400,151.04
1999	17,293.00	50.00	345.86	26.07	9,017.12
2002	27,056.54	50.00	541.13	28.58	15,463.00
2003	603,123.96	50.00	12,062.47	29.43	354,987.37
2004	48,787.57	50.00	975.75	30.29	29,557.39
2016	5,448.80	50.00	108.98	41.26	4,496.33
Total	1,576,345.41	50.00	31,526.89	25.81	813,672.25

Composite Average Remaining Life ... 25.81 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
382.00 Outfall Sewer Lines

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2017	12,867.84	50.00	257.36	42.22	10,864.34
2018	174,944.46	50.00	3,498.89	43.18	151,065.02
2023	311,592.01	50.00	6,231.84	48.03	299,343.43
Total	499,404.31	50.00	9,988.08	46.18	461,272.79

Composite Average Remaining Life ... 46.18 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
389.10 Other Plant - Intangibles

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2003	732.57	20.00	36.63	4.33	158.78
2013	4,140,223.53	20.00	207,011.19	9.25	1,915,326.26
2019	2,529.74	20.00	126.49	14.11	1,784.50
2020	6,201,677.71	20.00	310,083.91	15.05	4,667,523.25
2022	430,060.25	20.00	21,503.01	17.01	365,683.92
2024	38,327.02	20.00	1,916.35	19.00	36,410.76
Total	10,813,550.82	20.00	540,677.58	12.92	6,986,887.47

Composite Average Remaining Life ... 12.92 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
390.00 Office Furniture

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 20 **Survivor Curve:** SQ

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2008	12,008.00	20.00	600.40	3.00	1,801.20
2009	12,846.21	20.00	642.31	4.00	2,569.24
2010	44,755.08	20.00	2,237.75	5.00	11,188.77
2011	17,379.55	20.00	868.98	6.00	5,213.87
2012	39,909.19	20.00	1,995.46	7.00	13,968.22
2013	4,929.42	20.00	246.47	8.00	1,971.77
2014	23,508.40	20.00	1,175.42	9.00	10,578.78
2015	19,770.58	20.00	988.53	10.00	9,885.29
2016	717,221.40	20.00	35,861.07	11.00	394,471.77
2017	200,445.74	20.00	10,022.29	12.00	120,267.44
2018	57,523.48	20.00	2,876.17	13.00	37,390.26
2019	218,312.76	20.00	10,915.64	14.00	152,818.93
2020	417,250.76	20.00	20,862.54	15.00	312,938.07
2021	305,742.77	20.00	15,287.14	16.00	244,594.22
2022	247,326.91	20.00	12,366.35	17.00	210,227.87
2023	891,711.99	20.00	44,585.60	18.00	802,540.79
2024	584,267.19	20.00	29,213.36	19.00	555,053.83
2025	379,962.73	20.00	18,998.14	19.75	375,213.20
Total	4,194,872.16	20.00	209,743.61	15.56	3,262,693.52

Composite Average Remaining Life ... 15.56 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
391.00 Transportation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *14* ***Survivor Curve:*** *L4*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1995	13,240.08	0.00	0.00	0.00	0.00
2003	25,581.36	14.00	1,827.20	1.32	2,416.49
2004	6,788.48	14.00	484.88	1.49	722.18
2006	99,532.58	14.00	7,109.31	1.87	13,300.83
2007	154,794.96	14.00	11,056.53	2.09	23,053.35
2008	150,540.49	14.00	10,752.65	2.30	24,726.40
2009	220,230.56	14.00	15,730.40	2.49	39,180.61
2010	253,581.52	14.00	18,112.56	2.64	47,807.93
2011	91,691.79	14.00	6,549.27	2.78	18,214.73
2012	283,568.72	14.00	20,254.45	2.99	60,620.64
2013	590,227.54	14.00	42,158.15	3.35	141,270.51
2014	555,945.44	14.00	39,709.49	3.89	154,606.82
2015	697,815.92	14.00	49,842.86	4.58	228,470.49
2016	185,576.14	14.00	13,255.14	5.36	71,062.42
2017	174,855.63	14.00	12,489.40	6.20	77,412.31
2018	1,449,339.70	14.00	103,521.92	7.09	733,911.75
2019	840,388.91	14.00	60,026.42	8.03	481,979.55
2021	89,577.43	14.00	6,398.24	10.00	63,985.69
2022	869,888.42	14.00	62,133.48	11.00	683,487.99
2023	2,612,625.59	14.00	186,611.88	12.00	2,239,401.83
2024	815,335.23	14.00	58,236.91	13.00	757,098.32
2025	244,677.74	14.00	17,476.59	13.75	240,308.59
Total	10,425,804.23	13.36	743,737.72	8.21	6,103,039.42

Composite Average Remaining Life ... 8.21 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
395.00 Power Operated Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2025
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 22 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2007	13,810.00	22.00	627.72	8.21	5,152.21
2008	48,270.00	22.00	2,194.05	8.80	19,313.87
2009	246,063.00	22.00	11,184.48	9.42	105,379.18
2010	440,226.19	22.00	20,009.92	10.07	201,417.05
2011	45,902.54	22.00	2,086.44	10.73	22,391.57
2012	282,853.13	22.00	12,856.73	11.42	146,838.03
2013	157,521.76	22.00	7,159.95	12.13	86,853.19
2014	2,683.87	22.00	121.99	12.86	1,568.94
2015	7,815.84	22.00	355.26	13.61	4,835.31
2016	15,995.00	22.00	727.03	14.38	10,453.61
2017	29,847.33	22.00	1,356.67	15.16	20,573.19
2018	44,891.21	22.00	2,040.47	15.97	32,580.15
2020	9,692.97	22.00	440.58	17.62	7,763.25
2021	563,825.38	22.00	25,627.96	18.47	473,349.22
2023	271,216.17	22.00	12,327.79	20.21	249,145.33
2024	129,069.73	22.00	5,866.70	21.10	123,781.73
Total	2,309,684.12	22.00	104,983.75	14.40	1,511,395.83

Composite Average Remaining Life ... 14.40 Years

PAWC - Water Operations
Water Operations
303.35 Waste Handling

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *100* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1991	70,430.00	100.00	704.30	66.76	47,019.62
1992	84,595.17	100.00	845.95	67.66	57,236.91
Total	155,025.17	100.00	1,550.25	67.25	104,256.53

Composite Average Remaining Life ... 67.25 Years

PAWC - Water Operations
Water Operations
304.15 Other Water Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1905	20,000.00	0.00	0.00	0.00	0.00
1962	3,046.99	50.00	60.94	12.45	758.45
1965	40,502.68	50.00	810.05	13.57	10,990.89
1966	20,825.96	50.00	416.52	13.95	5,809.91
1967	270.30	50.00	5.41	14.33	77.48
1968	13,568.76	50.00	271.37	14.72	3,994.79
1969	631.00	50.00	12.62	15.11	190.71
1970	1,609.62	50.00	32.19	15.51	499.22
1971	11,357.68	50.00	227.15	15.91	3,613.24
1972	19,891.30	50.00	397.83	16.31	6,488.55
1973	102.13	50.00	2.04	16.72	34.15
1974	11,058.14	50.00	221.16	17.13	3,788.49
1975	3,360.08	50.00	67.20	17.55	1,179.16
1977	2,198.00	50.00	43.96	18.39	808.62
1978	1,550.08	50.00	31.00	18.83	583.63
1979	66,916.71	50.00	1,338.33	19.26	25,779.43
1980	50,476.77	50.00	1,009.53	19.70	19,892.15
1981	175,270.37	50.00	3,505.40	20.15	70,640.10
1982	5,146.13	50.00	102.92	20.60	2,120.72
1983	23,321.00	50.00	466.42	21.06	9,824.70
1984	402.00	50.00	8.04	21.53	173.10
1985	61,463.99	50.00	1,229.28	22.00	27,045.11
1986	65,149.35	50.00	1,302.99	22.48	29,289.53
1987	194.55	50.00	3.89	22.96	89.35
1988	5,314.89	50.00	106.30	23.46	2,493.21
1989	105,571.50	50.00	2,111.43	23.95	50,576.54
1990	167,225.90	50.00	3,344.51	24.46	81,805.97

PAWC - Water Operations
Water Operations
304.15 Other Water Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1991	515,689.12	50.00	10,313.77	24.97	257,569.36
1992	303,462.34	50.00	6,069.24	25.49	154,733.73
1993	140,489.27	50.00	2,809.78	26.02	73,122.35
1994	1,280,944.74	50.00	25,618.87	26.56	680,487.08
1995	208,091.31	50.00	4,161.82	27.11	112,819.72
1996	372,613.59	50.00	7,452.26	27.66	206,154.78
1997	26,226.70	50.00	524.53	28.23	14,806.31
1998	254,653.48	50.00	5,093.06	28.80	146,686.14
1999	142,608.54	50.00	2,852.17	29.38	83,809.17
2000	129,853.55	50.00	2,597.07	29.98	77,853.71
2001	1,161.48	50.00	23.23	30.58	710.38
2002	707,111.64	50.00	14,142.22	31.19	441,164.75
2003	1,932,009.71	50.00	38,640.15	31.82	1,229,517.04
2004	254,159.61	50.00	5,083.19	32.46	164,978.09
2005	974,587.19	50.00	19,491.72	33.10	645,236.66
2006	499,272.53	50.00	9,985.44	33.76	337,132.57
2007	1,551,026.95	50.00	31,020.51	34.43	1,068,156.19
2008	1,232,651.52	50.00	24,653.00	35.12	865,760.53
2009	228,603.44	50.00	4,572.06	35.81	163,747.03
2010	11,303,442.33	50.00	226,068.61	36.52	8,257,091.86
2011	250,029.38	50.00	5,000.58	37.25	186,263.28
2012	328,899.24	50.00	6,577.98	37.99	249,870.00
2013	2,948,687.90	50.00	58,973.70	38.74	2,284,502.10
2014	1,358,349.72	50.00	27,166.97	39.50	1,073,206.41
2015	863,430.65	50.00	17,268.59	40.29	695,675.09
2016	1,876,787.12	50.00	37,535.70	41.08	1,542,057.55
2017	1,914,619.65	50.00	38,292.35	41.90	1,604,260.07

PAWC - Water Operations
Water Operations
304.15 Other Water Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2018	17,474,447.65	50.00	349,488.58	42.72	14,931,489.26
2019	3,311,981.47	50.00	66,239.56	43.57	2,886,001.10
2020	5,258,970.84	50.00	105,179.30	44.43	4,673,267.91
2021	5,208,379.09	50.00	104,167.47	45.31	4,719,949.84
2022	14,305,441.54	50.00	286,108.53	46.21	13,220,747.15
2023	22,362,828.43	50.00	447,256.09	47.13	21,077,018.47
2024	12,035,825.08	50.00	240,716.24	48.06	11,569,068.67
2025	11,014,913.92	50.00	220,298.04	49.02	10,798,561.88
Total	123,448,676.60	49.19	2,468,570.90	43.28	106,852,023.41

Composite Average Remaining Life ... 43.28 Years

PAWC - Water Operations
Water Operations
304.21 Pumping Structures - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1962	15,878.73	75.00	211.72	31.83	6,738.04
1970	6,710.06	75.00	89.47	35.68	3,191.99
1990	1,277,952.17	75.00	17,039.37	46.79	797,293.78
1993	1,121,355.16	75.00	14,951.41	48.68	727,872.18
1994	88,730.90	75.00	1,183.08	49.33	58,357.56
1995	1,715,454.62	75.00	22,872.74	49.98	1,143,226.96
1997	4,494,042.69	75.00	59,920.59	51.31	3,074,580.01
1998	79,054.11	75.00	1,054.06	51.99	54,800.94
1999	4,650,691.72	75.00	62,009.25	52.68	3,266,400.20
2001	34,327.61	75.00	457.70	54.07	24,750.13
2003	2,358,291.93	75.00	31,443.90	55.51	1,745,335.56
2004	146,294.31	75.00	1,950.59	56.24	109,699.34
2005	11,236.00	75.00	149.81	56.98	8,536.09
2006	10,710.36	75.00	142.80	57.73	8,243.57
2007	29,310.29	75.00	390.80	58.49	22,857.13
2008	97,884.43	75.00	1,305.13	59.26	77,336.09
2012	23,869,584.52	75.00	318,261.25	62.43	19,869,572.47
2013	8,780,477.29	75.00	117,073.08	63.25	7,405,419.34
2014	3,788,366.02	75.00	50,511.57	64.09	3,237,053.83
2015	114,587.76	75.00	1,527.84	64.93	99,196.90
2017	3,006.40	75.00	40.09	66.65	2,671.56
2018	8,073.07	75.00	107.64	67.52	7,268.14
2019	130,266.72	75.00	1,736.89	68.41	118,826.19
2021	4,068,632.96	75.00	54,248.46	70.22	3,809,573.30
2023	1,168.86	75.00	15.58	72.09	1,123.53

PAWC - Water Operations
Water Operations
304.21 Pumping Structures - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	56,902,088.69	75.00	758,694.81	60.21	45,679,924.86

Composite Average Remaining Life ... 60.21 Years

PAWC - Water Operations
Water Operations
304.22 Pumping Structures - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1901	5,841.82	0.00	0.00	0.00	0.00
1904	1,656.55	0.00	0.00	0.00	0.00
1905	4,576.49	0.00	0.00	0.00	0.00
1906	5,412.26	0.00	0.00	0.00	0.00
1908	6,553.43	0.00	0.00	0.00	0.00
1909	7,477.68	0.00	0.00	0.00	0.00
1910	12,025.18	0.00	0.00	0.00	0.00
1911	14,042.67	0.00	0.00	0.00	0.00
1912	1,186.63	0.00	0.00	0.00	0.00
1915	1,030.51	0.00	0.00	0.00	0.00
1918	30,729.07	0.00	0.00	0.00	0.00
1919	3,285.16	0.00	0.00	0.00	0.00
1920	5,065.81	0.00	0.00	0.00	0.00
1921	589.43	0.00	0.00	0.00	0.00
1922	10,583.50	0.00	0.00	0.00	0.00
1923	7,456.73	0.00	0.00	0.00	0.00
1924	32,859.61	0.00	0.00	0.00	0.00
1925	142.50	0.00	0.00	0.00	0.00
1926	487.26	0.00	0.00	0.00	0.00
1927	863.05	0.00	0.00	0.00	0.00
1928	3,516.76	0.00	0.00	0.00	0.00
1929	12,727.23	0.00	0.00	0.00	0.00
1930	4,043.81	0.00	0.00	0.00	0.00
1931	7,583.10	0.00	0.00	0.00	0.00
1932	4,091.51	0.00	0.00	0.00	0.00
1933	31.03	0.00	0.00	0.00	0.00
1934	205.04	55.00	3.73	0.50	1.86

PAWC - Water Operations
Water Operations
304.22 Pumping Structures - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1935	2,181.02	55.00	39.65	0.62	24.75
1936	1,208.47	55.00	21.97	0.84	18.43
1937	934.92	55.00	17.00	1.00	16.99
1938	3,088.23	55.00	56.15	1.21	68.05
1939	2,936.64	55.00	53.39	1.44	76.95
1940	256.37	55.00	4.66	1.68	7.83
1941	426.22	55.00	7.75	1.94	15.05
1942	3,960.66	55.00	72.01	2.17	156.35
1943	65.66	55.00	1.19	2.41	2.88
1944	632.02	55.00	11.49	2.66	30.58
1945	1,391.94	55.00	25.31	2.91	73.76
1946	458.99	55.00	8.35	3.17	26.46
1947	9,849.69	55.00	179.09	3.44	615.78
1948	69,981.98	55.00	1,272.40	3.69	4,694.16
1949	2,182.09	55.00	39.67	3.94	156.43
1950	502.83	55.00	9.14	4.20	38.38
1951	30,036.64	55.00	546.12	4.45	2,432.88
1952	11,892.63	55.00	216.23	4.72	1,021.07
1953	28,685.21	55.00	521.55	4.98	2,595.35
1954	150,370.41	55.00	2,734.01	5.23	14,310.67
1955	122,038.47	55.00	2,218.88	5.50	12,197.21
1956	26,864.73	55.00	488.45	5.77	2,815.96
1957	15,965.08	55.00	290.27	6.04	1,753.12
1958	14,351.02	55.00	260.93	6.33	1,650.50
1959	28,185.43	55.00	512.46	6.61	3,388.77
1960	22,982.96	55.00	417.87	6.91	2,887.69
1961	77,621.92	55.00	1,411.31	7.22	10,189.12

PAWC - Water Operations
Water Operations
304.22 Pumping Structures - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1962	764.70	55.00	13.90	7.54	104.85
1963	49,553.58	55.00	900.97	7.88	7,097.20
1964	382,895.62	55.00	6,961.74	8.22	57,254.02
1965	28,459.92	55.00	517.45	8.59	4,442.90
1966	68,093.98	55.00	1,238.07	8.96	11,097.69
1967	97,629.18	55.00	1,775.08	9.36	16,609.94
1968	21,632.31	55.00	393.31	9.77	3,841.63
1969	115,270.36	55.00	2,095.82	10.19	21,362.76
1970	58,066.48	55.00	1,055.75	10.64	11,230.06
1971	131,023.64	55.00	2,382.25	11.10	26,438.89
1972	103,200.73	55.00	1,876.38	11.58	21,722.60
1973	58,897.24	55.00	1,070.86	12.07	12,928.18
1974	124,265.86	55.00	2,259.38	12.58	28,430.27
1975	103,208.46	55.00	1,876.52	13.11	24,609.05
1976	48,283.97	55.00	877.89	13.66	11,993.71
1977	31,616.36	55.00	574.84	14.23	8,177.80
1978	90,978.06	55.00	1,654.15	14.81	24,491.94
1979	66,769.29	55.00	1,213.99	15.40	18,698.22
1980	120,180.98	55.00	2,185.11	16.01	34,986.41
1981	248,439.56	55.00	4,517.08	16.64	75,157.76
1982	213,685.47	55.00	3,885.19	17.28	67,136.51
1983	147,087.28	55.00	2,674.31	17.94	47,965.09
1984	136,432.53	55.00	2,480.59	18.60	46,149.42
1985	953,727.67	55.00	17,340.50	19.28	334,382.30
1986	216,373.69	55.00	3,934.07	19.98	78,597.37
1987	1,117,433.37	55.00	20,316.97	20.69	420,276.36
1988	354,873.27	55.00	6,452.24	21.40	138,109.59

PAWC - Water Operations
Water Operations
304.22 Pumping Structures - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1989	819,879.51	55.00	14,906.90	22.14	329,965.53
1990	1,926,625.32	55.00	35,029.55	22.88	801,343.60
1991	294,397.18	55.00	5,352.68	23.63	126,463.79
1992	1,848,476.34	55.00	33,608.66	24.39	819,695.09
1993	1,463,314.62	55.00	26,605.72	25.16	669,468.41
1994	243,427.51	55.00	4,425.95	25.95	114,833.95
1995	637,438.12	55.00	11,589.78	26.74	309,890.21
1996	992,670.64	55.00	18,048.55	27.54	497,029.16
1997	754,369.67	55.00	13,715.81	28.35	388,852.49
1998	624,669.83	55.00	11,357.63	29.17	331,324.06
1999	660,921.33	55.00	12,016.75	30.00	360,527.26
2000	1,706,138.15	55.00	31,020.69	30.84	956,705.93
2001	794,513.61	55.00	14,445.70	31.69	457,759.40
2002	225,626.47	55.00	4,102.30	32.54	133,500.25
2003	3,783,308.96	55.00	68,787.42	33.41	2,298,010.82
2004	336,158.01	55.00	6,111.96	34.28	209,518.11
2005	304,164.60	55.00	5,530.26	35.16	194,445.89
2006	3,479,458.76	55.00	63,262.88	36.05	2,280,511.61
2007	3,816,541.06	55.00	69,391.64	36.94	2,563,470.55
2008	1,100,189.00	55.00	20,003.43	37.84	757,028.34
2009	18,910.36	55.00	343.82	38.75	13,324.77
2010	215,150.60	55.00	3,911.83	39.67	155,185.12
2011	497,543.40	55.00	9,046.24	40.59	367,215.87
2012	574,162.28	55.00	10,439.31	41.52	433,457.68
2013	3,315,957.15	55.00	60,290.12	42.46	2,559,625.38
2014	1,855,342.43	55.00	33,733.49	43.40	1,463,873.61
2015	816,045.29	55.00	14,837.18	44.34	657,888.36

PAWC - Water Operations
Water Operations
304.22 Pumping Structures - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2016	3,078,578.01	55.00	55,974.14	45.29	2,535,103.41
2017	596,454.65	55.00	10,844.63	46.25	501,513.22
2018	2,924,830.20	55.00	53,178.72	47.20	2,510,228.96
2019	142,272.05	55.00	2,586.76	48.17	124,596.61
2020	2,322,098.42	55.00	42,219.96	49.13	2,074,436.70
2021	6,088,150.85	55.00	110,693.63	50.10	5,546,250.98
2022	782,958.60	55.00	14,235.61	51.08	727,129.25
2023	9,740,769.56	55.00	177,104.87	52.05	9,219,163.18
2024	2,908,519.77	55.00	52,882.17	53.03	2,804,543.81
2025	13,936,240.07	55.00	253,386.14	54.02	13,686,858.44
2026	1,139,080.99	55.00	20,710.56	54.75	1,133,983.32
Total	82,667,312.98	42.98	1,499,698.91	41.83	62,729,282.67

Composite Average Remaining Life ... 41.83 Years

PAWC - Water Operations
Water Operations
304.31 Purification Buildings - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1900	690.28	0.00	0.00	0.00	0.00
1906	871.05	0.00	0.00	0.00	0.00
1910	955.96	0.00	0.00	0.00	0.00
1921	7,550.49	55.00	137.28	1.36	186.15
1924	65,855.77	55.00	1,197.38	2.16	2,581.96
1928	713.20	55.00	12.97	3.25	42.19
1930	44.14	55.00	0.80	3.82	3.07
1938	1,127.93	55.00	20.51	6.14	125.86
1951	429.84	55.00	7.82	10.23	79.98
1953	7,347.67	55.00	133.59	10.91	1,457.32
1954	63,503.27	55.00	1,154.60	11.25	12,988.59
1955	11,789.91	55.00	214.36	11.59	2,485.28
1958	1,894.04	55.00	34.44	12.65	435.66
1960	45.00	55.00	0.82	13.37	10.94
1961	26,097.98	55.00	474.51	13.74	6,519.62
1962	893.00	55.00	16.24	14.11	229.11
1963	541.00	55.00	9.84	14.49	142.50
1964	398.22	55.00	7.24	14.87	107.64
1965	321.42	55.00	5.84	15.25	89.13
1966	438.31	55.00	7.97	15.64	124.64
1967	22,777.88	55.00	414.14	16.03	6,640.37
1969	89,590.44	55.00	1,628.92	16.84	27,425.38
1970	358.00	55.00	6.51	17.25	112.25
1972	2,625.00	55.00	47.73	18.08	862.87
1973	6,319,882.94	55.00	114,906.97	18.50	2,126,297.52
1975	69,470.87	55.00	1,263.11	19.37	24,469.67
1976	3,042,618.84	55.00	55,320.35	19.82	1,096,228.33

PAWC - Water Operations
Water Operations
304.31 Purification Buildings - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1977	49,822.29	55.00	905.86	20.27	18,357.95
1978	89.00	55.00	1.62	20.72	33.53
1979	16,962.81	55.00	308.41	21.19	6,533.80
1980	10,568.86	55.00	192.16	21.65	4,161.14
1981	5,396.00	55.00	98.11	22.13	2,171.33
1982	364.13	55.00	6.62	22.62	149.73
1983	56,269.13	55.00	1,023.08	23.11	23,642.02
1984	44,668.70	55.00	812.16	23.61	19,174.13
1985	129,729.26	55.00	2,358.71	24.12	56,882.23
1986	56,314.64	55.00	1,023.90	24.63	25,221.36
1987	44,970.19	55.00	817.64	25.16	20,570.11
1988	6,104,219.17	55.00	110,985.81	25.69	2,851,447.61
1989	354,686.26	55.00	6,448.84	26.24	169,186.13
1990	18,290,076.26	55.00	332,546.86	26.79	8,908,107.08
1991	463,554.17	55.00	8,428.26	27.35	230,497.56
1992	10,159,569.23	55.00	184,719.45	27.92	5,157,480.22
1993	17,607,220.02	55.00	320,131.29	28.50	9,124,761.88
1994	594,840.73	55.00	10,815.29	29.10	314,683.44
1995	4,351,649.57	55.00	79,120.91	29.70	2,349,880.34
1996	404,065.68	55.00	7,346.65	30.31	222,696.19
1997	5,491,313.41	55.00	99,842.07	30.94	3,089,055.42
1998	141,383.91	55.00	2,570.62	31.58	81,174.53
1999	5,186,983.45	55.00	94,308.80	32.23	3,039,403.05
2000	2,110,656.29	55.00	38,375.57	32.89	1,262,202.96
2001	5,794,842.92	55.00	105,360.79	33.57	3,536,530.92
2002	747,232.76	55.00	13,586.05	34.25	465,350.16
2003	10,628,722.26	55.00	193,249.51	34.95	6,754,858.85

PAWC - Water Operations
Water Operations
304.31 Purification Buildings - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2004	1,366,240.03	55.00	24,840.73	35.67	886,057.39
2005	1,140,362.23	55.00	20,733.86	36.40	754,685.71
2006	16,562,900.56	55.00	301,143.67	37.14	11,185,030.97
2007	3,790,762.44	55.00	68,922.96	37.90	2,611,957.17
2008	1,021,974.93	55.00	18,581.36	38.67	718,534.00
2009	444,258.49	55.00	8,077.43	39.46	318,711.76
2010	4,958,956.40	55.00	90,162.85	40.26	3,629,901.12
2011	13,669,205.90	55.00	248,531.03	41.08	10,208,818.17
2012	49,857,456.27	55.00	906,499.27	41.91	37,990,405.26
2013	928,710.06	55.00	16,885.64	42.75	721,934.68
2014	2,458,292.83	55.00	44,696.24	43.62	1,949,552.31
2015	356,941.13	55.00	6,489.84	44.50	288,773.23
2016	1,590,034.14	55.00	28,909.71	45.39	1,312,192.46
2017	8,292,662.96	55.00	150,775.70	46.30	6,980,449.38
2018	38,663,786.79	55.00	702,977.99	47.22	33,192,160.54
2019	1,204,755.23	55.00	21,904.64	48.15	1,054,767.53
2020	256,427.12	55.00	4,662.31	49.10	228,927.34
2021	25,682,645.88	55.00	466,957.23	50.06	23,377,097.10
2022	22,776,043.45	55.00	414,109.91	51.03	21,133,861.61
2023	43,116,860.61	55.00	783,942.97	52.02	40,777,447.69
2024	4,423,364.16	55.00	80,424.81	53.00	4,262,878.86
2025	22,092,529.63	55.00	401,682.38	54.00	21,691,082.64
2026	1,566,436.37	55.00	28,480.66	54.75	1,559,317.98
Total	364,806,611.16	52.86	6,632,802.15	41.89	277,878,404.65

Composite Average Remaining Life ... 41.89 Years

PAWC - Water Operations
Water Operations
304.32 Purification Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 60 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1949	446.62	60.00	7.44	6.12	45.52
1951	2,577.02	60.00	42.95	6.66	286.24
1952	300.47	60.00	5.01	6.95	34.78
1953	974.80	60.00	16.25	7.24	117.64
1954	520.58	60.00	8.68	7.54	65.40
1955	39.08	60.00	0.65	7.85	5.11
1956	36.69	60.00	0.61	8.17	4.99
1957	205.83	60.00	3.43	8.50	29.15
1958	544.82	60.00	9.08	8.84	80.28
1959	50.43	60.00	0.84	9.20	7.73
1960	2,017.84	60.00	33.63	9.57	321.83
1961	243.49	60.00	4.06	9.95	40.40
1962	344.32	60.00	5.74	10.35	59.42
1963	536.36	60.00	8.94	10.77	96.27
1964	159.18	60.00	2.65	11.20	29.71
1965	137.84	60.00	2.30	11.64	26.75
1966	380.32	60.00	6.34	12.11	76.74
1967	15.71	60.00	0.26	12.58	3.30
1968	17.41	60.00	0.29	13.08	3.79
1969	6,762.47	60.00	112.71	13.59	1,531.37
1970	138.48	60.00	2.31	14.11	32.57
1971	1,630.35	60.00	27.17	14.65	398.12
1972	962,126.16	60.00	16,035.43	15.21	243,883.24
1973	8,355.39	60.00	139.26	15.78	2,197.60
1974	7,440.58	60.00	124.01	16.36	2,029.37
1975	201,596.47	60.00	3,359.94	16.97	57,006.74
1976	35,465.34	60.00	591.09	17.58	10,392.41

PAWC - Water Operations
Water Operations
304.32 Purification Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 60 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1977	1,228.15	60.00	20.47	18.21	372.70
1978	2,600.12	60.00	43.34	18.85	816.90
1979	9,855.41	60.00	164.26	19.51	3,203.97
1980	629.29	60.00	10.49	20.17	211.55
1981	22,803.05	60.00	380.05	20.85	7,924.45
1982	374,615.12	60.00	6,243.58	21.54	134,501.81
1983	79,765.79	60.00	1,329.43	22.24	29,569.79
1984	17,275.34	60.00	287.92	22.96	6,609.80
1985	412,588.82	60.00	6,876.48	23.68	162,843.79
1986	15,368.94	60.00	256.15	24.41	6,253.51
1987	24,135.30	60.00	402.25	25.16	10,120.36
1988	973,270.83	60.00	16,221.18	25.91	420,351.28
1989	2,262,509.73	60.00	37,708.49	26.68	1,005,901.18
1990	912,456.95	60.00	15,207.61	27.45	417,448.62
1991	1,035,512.97	60.00	17,258.55	28.23	487,256.75
1992	10,771.18	60.00	179.52	29.02	5,210.11
1993	1,529.61	60.00	25.49	29.82	760.31
1994	905,652.58	60.00	15,094.21	30.63	462,380.16
1995	1,301,863.40	60.00	21,697.72	31.45	682,366.93
1996	484,596.19	60.00	8,076.60	32.28	260,675.85
1997	1,619,429.21	60.00	26,990.48	33.11	893,648.18
1998	591,712.08	60.00	9,861.87	33.95	334,813.61
1999	1,757,798.37	60.00	29,296.63	34.80	1,019,554.00
2000	12,737.39	60.00	212.29	35.66	7,570.05
2001	2,026,207.14	60.00	33,770.11	36.52	1,233,384.10
2002	320,694.02	60.00	5,344.90	37.40	199,879.61
2003	406,414.68	60.00	6,773.58	38.28	259,268.62

PAWC - Water Operations
Water Operations
304.32 Purification Buildings - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *60* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2004	325,042.96	60.00	5,417.38	39.16	212,156.45
2005	87,900.88	60.00	1,465.01	40.06	58,683.46
2006	18,595.92	60.00	309.93	40.96	12,693.95
2007	247,516.17	60.00	4,125.27	41.86	172,695.87
2008	104,354.23	60.00	1,739.24	42.78	74,398.52
2009	752,094.33	60.00	12,534.90	43.70	547,721.73
2010	704,043.34	60.00	11,734.05	44.62	523,568.04
2011	2,017,071.77	60.00	33,617.86	45.55	1,531,302.78
2012	2,624,053.64	60.00	43,734.22	46.49	2,033,027.68
2013	3,123,751.82	60.00	52,062.52	47.43	2,469,102.38
2014	3,755,244.64	60.00	62,587.40	48.37	3,027,443.71
2015	426,184.87	60.00	7,103.08	49.32	350,334.20
2016	1,488,060.01	60.00	24,801.00	50.27	1,246,868.17
2017	2,198,162.59	60.00	36,636.04	51.23	1,876,990.33
2018	1,947,409.34	60.00	32,456.82	52.20	1,694,100.80
2019	1,886,357.37	60.00	31,439.28	53.16	1,671,328.87
2020	3,467,648.65	60.00	57,794.13	54.13	3,128,376.51
2021	2,982,556.47	60.00	49,709.27	55.10	2,739,064.64
2022	7,493,562.12	60.00	124,892.68	56.08	7,003,492.72
2023	10,965,940.51	60.00	182,765.64	57.05	10,427,471.44
2024	1,822,402.35	60.00	30,373.37	58.03	1,762,680.97
2025	9,732,611.37	60.00	162,210.16	59.02	9,572,932.42
2026	1,152,992.81	60.00	19,216.54	59.75	1,148,262.89
Total	76,140,643.87	60.00	1,269,010.50	48.59	61,656,403.02

Composite Average Remaining Life ... 48.59 Years

PAWC - Water Operations
Water Operations
304.36 Waste Handling Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1991	10,728,292.17	55.00	195,059.87	27.35	5,334,533.26
1998	68,969.00	55.00	1,253.98	31.58	39,598.04
2000	122,317.58	55.00	2,223.96	32.89	73,147.68
2001	25,833.98	55.00	469.71	33.57	15,766.20
2003	4,063.71	55.00	73.89	34.95	2,582.60
2007	19,061.38	55.00	346.57	37.90	13,133.90
2010	29,348.23	55.00	533.60	40.26	21,482.58
2012	197,525.13	55.00	3,591.37	41.91	150,510.28
2013	129,535.29	55.00	2,355.19	42.75	100,694.53
2014	18,080.06	55.00	328.73	43.62	14,338.42
2016	167,667.01	55.00	3,048.49	45.39	138,368.97
2021	13,550,479.62	55.00	246,372.37	50.06	12,334,043.75
2023	3,380,408.50	55.00	61,461.98	52.02	3,196,996.00
Total	28,441,581.66	55.00	517,119.70	41.45	21,435,196.21

Composite Average Remaining Life ... 41.45 Years

PAWC - Water Operations
Water Operations
304.60 Office Buildings - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1986	1,193,234.40	55.00	21,695.16	28.92	627,485.57
1987	1,333,438.47	55.00	24,244.32	29.42	713,319.82
1988	66,300.97	55.00	1,205.47	29.93	36,074.56
1989	673,796.52	55.00	12,250.84	30.43	372,837.21
1990	53,021.27	55.00	964.02	30.95	29,832.69
1991	4,089.45	55.00	74.35	31.46	2,339.36
1992	18,335.02	55.00	333.36	31.98	10,662.58
1994	2,429.06	55.00	44.16	33.04	1,459.40
1995	69,619.62	55.00	1,265.81	33.58	42,508.85
1996	25,231.49	55.00	458.75	34.12	15,654.87
1997	109,992.96	55.00	1,999.87	34.67	69,344.10
1998	1,013.00	55.00	18.42	35.23	648.87
2001	62,892.80	55.00	1,143.50	36.94	42,235.37
2002	10,259.32	55.00	186.53	37.52	6,997.99
2003	73,531.37	55.00	1,336.93	38.11	50,945.22
2005	152,175.13	55.00	2,766.82	39.31	108,761.47
2006	268,253.78	55.00	4,877.34	39.92	194,718.85
2007	23,101.69	55.00	420.03	40.54	17,029.85
2008	107,200.39	55.00	1,949.10	41.18	80,257.61
2009	4,369.19	55.00	79.44	41.82	3,322.09
2010	30,818.46	55.00	560.34	42.47	23,798.15
2011	114,845.78	55.00	2,088.10	43.13	90,068.70
2012	143,420.45	55.00	2,607.64	43.81	114,236.65
2013	360,133.68	55.00	6,547.88	44.49	291,333.29
2014	82,708.84	55.00	1,503.80	45.19	67,959.76
2015	29,091.75	55.00	528.94	45.90	24,280.94
2016	107,280.37	55.00	1,950.55	46.63	90,957.63

PAWC - Water Operations
Water Operations
304.60 Office Buildings - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2017	95,983.57	55.00	1,745.15	47.37	82,674.57
2018	19,728,894.53	55.00	358,706.92	48.13	17,264,292.95
2019	1,662,367.46	55.00	30,224.84	48.91	1,478,169.80
2023	11,478.86	55.00	208.71	52.22	10,898.31
2025	2,409,664.54	55.00	43,812.05	54.03	2,367,225.64
Total	29,028,974.19	55.00	527,799.16	46.10	24,332,332.73

Composite Average Remaining Life ... 46.10 Years

PAWC - Water Operations
Water Operations
304.61 Office Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1924	845.00	0.00	0.00	0.00	0.00
1926	215.00	0.00	0.00	0.00	0.00
1958	13.02	50.00	0.26	4.10	1.07
1960	48.73	50.00	0.97	4.62	4.50
1961	21.19	50.00	0.42	4.88	2.07
1963	33,045.39	50.00	660.91	5.42	3,581.93
1964	1,079.50	50.00	21.59	5.70	123.04
1965	11,957.68	50.00	239.15	5.99	1,431.76
1966	1,125.43	50.00	22.51	6.29	141.47
1967	48,178.36	50.00	963.57	6.60	6,354.77
1968	57,455.89	50.00	1,149.12	6.92	7,949.75
1969	1,273.22	50.00	25.46	7.26	184.76
1970	11,121.74	50.00	222.43	7.61	1,692.34
1971	9,019.90	50.00	180.40	7.98	1,439.09
1972	61,461.67	50.00	1,229.23	8.36	10,280.71
1973	1,636.52	50.00	32.73	8.77	286.96
1975	6,526.85	50.00	130.54	9.63	1,257.17
1976	45,687.00	50.00	913.74	10.09	9,220.24
1977	13,240.50	50.00	264.81	10.57	2,798.96
1979	28,098.53	50.00	561.97	11.58	6,510.41
1980	1.10	50.00	0.02	12.12	0.27
1981	45,810.00	50.00	916.20	12.68	11,613.17
1982	361,045.49	50.00	7,220.91	13.25	95,662.12
1983	32,369.00	50.00	647.38	13.84	8,958.56
1984	902.06	50.00	18.04	14.45	260.62
1985	72,985.69	50.00	1,459.71	15.07	21,997.35
1986	351,447.26	50.00	7,028.94	15.71	110,422.89

PAWC - Water Operations
Water Operations
304.61 Office Buildings - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1987	596,055.80	50.00	11,921.11	16.37	195,092.94
1988	612,729.15	50.00	12,254.58	17.04	208,766.83
1989	449,868.60	50.00	8,997.37	17.72	159,439.34
1990	143,314.05	50.00	2,866.28	18.42	52,794.90
1991	33,727.65	50.00	674.55	19.13	12,905.04
1992	148,265.09	50.00	2,965.30	19.86	58,879.09
1993	12,902.30	50.00	258.05	20.59	5,313.99
1994	325,416.52	50.00	6,508.33	21.34	138,903.10
1995	58,927.46	50.00	1,178.55	22.10	26,049.67
1996	47,370.53	50.00	947.41	22.88	21,672.30
1997	35,194.64	50.00	703.89	23.66	16,653.02
1998	15,964.58	50.00	319.29	24.45	7,807.44
1999	61,011.45	50.00	1,220.23	25.26	30,819.14
2000	754,379.80	50.00	15,087.59	26.07	393,357.61
2001	49,302.15	50.00	986.04	26.90	26,521.01
2002	6,125.14	50.00	122.50	27.73	3,397.13
2003	84,890.14	50.00	1,697.80	28.58	48,515.32
2004	37,729.39	50.00	754.59	29.43	22,206.81
2005	346,446.58	50.00	6,928.93	30.29	209,890.68
2006	226,824.45	50.00	4,536.49	31.16	141,373.90
2007	90,382.39	50.00	1,807.65	32.04	57,924.62
2008	234,555.06	50.00	4,691.10	32.93	154,492.38
2009	101,931.15	50.00	2,038.62	33.83	68,966.74
2010	61,124.75	50.00	1,222.49	34.73	42,463.20
2011	121,514.52	50.00	2,430.29	35.65	86,632.98
2012	183,845.36	50.00	3,676.91	36.57	134,452.20
2013	88,318.55	50.00	1,766.37	37.49	66,226.52

PAWC - Water Operations
Water Operations
304.61 Office Buildings - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2014	402,537.52	50.00	8,050.75	38.43	309,356.64
2015	12,615.97	50.00	252.32	39.36	9,932.50
2016	683,665.11	50.00	13,673.30	40.31	551,164.97
2017	539,219.66	50.00	10,784.39	41.26	444,961.80
2018	1,151,356.24	50.00	23,027.11	42.22	972,092.29
2019	1,338,951.60	50.00	26,779.02	43.18	1,156,188.37
2020	619,050.23	50.00	12,381.00	44.14	546,492.24
2021	830,510.39	50.00	16,610.20	45.11	749,254.02
2022	1,604,063.59	50.00	32,081.26	46.08	1,478,312.74
2023	387,682.44	50.00	7,753.65	47.06	364,854.42
2024	800,288.59	50.00	16,005.76	48.03	768,829.50
2025	887,174.99	50.00	17,743.49	49.02	869,715.35
Total	15,381,845.30	48.48	307,615.56	35.48	10,914,848.72

Composite Average Remaining Life ... 35.48 Years

PAWC - Water Operations
Water Operations
304.62 Garage Buildings - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1958	1,356.00	55.00	24.65	14.58	359.57
1965	653,341.28	55.00	11,878.93	17.30	205,458.68
1967	45,486.00	55.00	827.02	18.10	14,971.13
1969	4,300.00	55.00	78.18	18.93	1,479.59
1970	2,902.00	55.00	52.76	19.34	1,020.57
1972	1,319.97	55.00	24.00	20.19	484.55
1973	9,153.18	55.00	166.42	20.62	3,431.76
1975	40.52	55.00	0.74	21.50	15.84
1977	1,690.34	55.00	30.73	22.39	688.19
1979	3,808.27	55.00	69.24	23.31	1,613.93
1981	0.16	55.00	0.00	24.25	0.07
1985	8,909.55	55.00	161.99	26.20	4,243.78
1986	56,270.95	55.00	1,023.11	26.70	27,318.47
1987	799,727.39	55.00	14,540.49	27.21	395,678.90
1988	16,136.70	55.00	293.39	27.73	8,135.80
1989	365,534.82	55.00	6,646.09	28.25	187,783.31
1990	21,055.84	55.00	382.83	28.79	11,020.57
1991	5,126.72	55.00	93.21	29.33	2,733.52
1992	10,300.00	55.00	187.27	29.87	5,594.48
1993	2,884.28	55.00	52.44	30.43	1,595.76
1995	1,257.55	55.00	22.86	31.57	721.74
1996	53,669.41	55.00	975.81	32.15	31,367.60
1997	53,667.76	55.00	975.78	32.74	31,942.83
1998	41,194.00	55.00	748.98	33.34	24,967.60
2000	55,773.26	55.00	1,014.06	34.56	35,048.86
2001	106,652.86	55.00	1,939.14	35.19	68,241.06
2002	3,229.97	55.00	58.73	35.83	2,104.09

PAWC - Water Operations
Water Operations
304.62 Garage Buildings - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2006	123,630.77	55.00	2,247.83	38.49	86,523.66
2007	61,197.63	55.00	1,112.68	39.18	43,599.34
2008	530,439.54	55.00	9,644.35	39.89	384,717.73
2009	415,793.46	55.00	7,559.88	40.61	306,999.60
2010	105,796.74	55.00	1,923.58	41.34	79,520.69
2011	56,537.12	55.00	1,027.95	42.08	43,259.74
2012	1,931,567.43	55.00	35,119.40	42.84	1,504,520.87
2013	23,340.26	55.00	424.37	43.61	18,505.92
2014	16,852,825.36	55.00	306,414.91	44.39	13,602,500.41
2015	31,770.86	55.00	577.65	45.19	26,104.40
2018	19,072,598.79	55.00	346,774.41	47.67	16,530,311.70
2019	6,338,430.77	55.00	115,244.16	48.53	5,592,392.90
2021	11,528,614.10	55.00	209,611.10	50.29	10,541,095.10
Total	59,397,331.61	55.00	1,079,951.14	46.14	49,828,074.29

Composite Average Remaining Life ... 46.14 Years

PAWC - Water Operations
Water Operations
304.63 Garage Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 45 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1906	2,277.20	0.00	0.00	0.00	0.00
1908	11,029.40	0.00	0.00	0.00	0.00
1909	13,507.39	0.00	0.00	0.00	0.00
1912	4,321.23	0.00	0.00	0.00	0.00
1922	38.02	0.00	0.00	0.00	0.00
1924	0.63	0.00	0.00	0.00	0.00
1926	14,835.75	0.00	0.00	0.00	0.00
1927	283.00	0.00	0.00	0.00	0.00
1928	2,177.00	0.00	0.00	0.00	0.00
1929	2,405.47	0.00	0.00	0.00	0.00
1935	1,480.00	0.00	0.00	0.00	0.00
1937	295.00	0.00	0.00	0.00	0.00
1940	190.00	0.00	0.00	0.00	0.00
1942	2,556.77	0.00	0.00	0.00	0.00
1943	0.07	0.00	0.00	0.00	0.00
1945	648.58	0.00	0.00	0.00	0.00
1947	0.21	0.00	0.00	0.00	0.00
1948	524.42	0.00	0.00	0.00	0.00
1949	260.00	0.00	0.00	0.00	0.00
1950	368.99	0.00	0.00	0.00	0.00
1951	871.00	45.00	19.36	0.50	9.68
1954	10,690.00	45.00	237.56	1.03	244.92
1955	141.54	45.00	3.15	1.26	3.95
1956	6,563.98	45.00	145.87	1.49	217.34
1957	2,349.38	45.00	52.21	1.71	89.21
1958	1,197.00	45.00	26.60	1.96	52.16
1959	728.45	45.00	16.19	2.22	35.86

PAWC - Water Operations
Water Operations
304.63 Garage Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 45 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1960	2,083.92	45.00	46.31	2.47	114.45
1961	2,337.30	45.00	51.94	2.72	141.10
1962	827.00	45.00	18.38	2.97	54.67
1963	2,401.75	45.00	53.37	3.23	172.58
1964	3,175.28	45.00	70.56	3.49	246.42
1965	574.98	45.00	12.78	3.75	47.93
1966	1,195.17	45.00	26.56	4.00	106.26
1967	5,566.05	45.00	123.69	4.26	527.23
1968	2,498.10	45.00	55.51	4.53	251.38
1969	2,634.23	45.00	58.54	4.80	280.94
1970	7,477.75	45.00	166.17	5.07	842.84
1971	118.53	45.00	2.63	5.36	14.12
1972	1,497.86	45.00	33.29	5.66	188.32
1973	4,075.51	45.00	90.57	5.97	540.60
1974	1,878.67	45.00	41.75	6.29	262.80
1976	4,139.68	45.00	91.99	6.99	643.38
1977	1,348.58	45.00	29.97	7.37	220.91
1978	231.44	45.00	5.14	7.77	39.95
1980	2,836.34	45.00	63.03	8.62	543.53
1981	1,534.25	45.00	34.09	9.08	309.64
1982	6,296.00	45.00	139.91	9.56	1,337.76
1983	6,864.02	45.00	152.53	10.06	1,534.79
1984	50,567.72	45.00	1,123.73	10.59	11,896.11
1985	35,513.76	45.00	789.19	11.13	8,783.03
1986	27,677.97	45.00	615.07	11.69	7,191.39
1987	822.21	45.00	18.27	12.27	224.27
1988	551,770.05	45.00	12,261.55	12.88	157,918.12

PAWC - Water Operations
Water Operations
304.63 Garage Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *45* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1989	67,022.20	45.00	1,489.38	13.50	20,106.90
1990	977,166.56	45.00	21,714.80	14.14	307,023.34
1991	703,073.68	45.00	15,623.85	14.79	231,149.41
1992	326,380.72	45.00	7,252.90	15.47	112,178.74
1993	10,915.11	45.00	242.56	16.16	3,919.13
1994	68,231.44	45.00	1,516.25	16.86	25,565.63
1995	6,922.98	45.00	153.84	17.58	2,704.42
1996	89,822.17	45.00	1,996.05	18.31	36,549.02
1997	117,923.48	45.00	2,620.52	19.06	49,941.83
1998	17,129.33	45.00	380.65	19.82	7,543.25
1999	137,988.42	45.00	3,066.41	20.59	63,130.69
2000	71,946.71	45.00	1,598.82	21.37	34,168.44
2001	20,966.41	45.00	465.92	22.17	10,327.67
2002	9,450.88	45.00	210.02	22.98	4,825.20
2004	1,409.66	45.00	31.33	24.62	771.33
2005	49,272.77	45.00	1,094.95	25.46	27,880.68
2006	46,209.96	45.00	1,026.89	26.32	27,022.65
2007	51,006.16	45.00	1,133.47	27.18	30,803.54
2008	30,880.12	45.00	686.22	28.05	19,246.80
2009	16,376.26	45.00	363.92	28.93	10,527.38
2010	3,292.18	45.00	73.16	29.82	2,181.46
2011	204,308.42	45.00	4,540.18	30.72	139,465.51
2012	213,304.25	45.00	4,740.09	31.63	149,908.37
2013	45,748.36	45.00	1,016.63	32.54	33,082.48
2014	71,517.92	45.00	1,589.29	33.46	53,185.04
2015	514,980.71	45.00	11,444.01	34.40	393,633.04
2016	77,822.77	45.00	1,729.39	35.33	61,106.96

PAWC - Water Operations
Water Operations
304.63 Garage Buildings - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *45* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2017	35,445.83	45.00	787.68	36.28	28,576.13
2018	1,423,776.58	45.00	31,639.46	37.23	1,177,904.10
2019	166,008.61	45.00	3,689.08	38.18	140,866.90
2020	419,301.96	45.00	9,317.82	39.15	364,761.64
2021	1,977,977.57	45.00	43,955.04	40.11	1,763,152.81
2022	399,491.26	45.00	8,877.58	41.08	364,716.78
2023	165,400.27	45.00	3,675.56	42.06	154,583.33
2025	285,732.90	45.00	6,349.62	44.02	279,486.09
Total	9,631,889.21	34.89	212,770.79	29.74	6,327,084.36

Composite Average Remaining Life ... 29.74 Years

PAWC - Water Operations
Water Operations
304.65 Miscellaneous Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1917	599.15	0.00	0.00	0.00	0.00
1920	664.61	0.00	0.00	0.00	0.00
1927	142.31	0.00	0.00	0.00	0.00
1929	630.49	0.00	0.00	0.00	0.00
1930	4,558.43	0.00	0.00	0.00	0.00
1936	1,322.84	0.00	0.00	0.00	0.00
1941	644.36	0.00	0.00	0.00	0.00
1942	535.72	0.00	0.00	0.00	0.00
1943	42.18	0.00	0.00	0.00	0.00
1951	0.95	0.00	0.00	0.00	0.00
1952	478.89	0.00	0.00	0.00	0.00
1954	1,879.63	0.00	0.00	0.00	0.00
1958	1,399.09	35.00	39.97	0.79	31.58
1959	134.68	35.00	3.85	1.12	4.30
1960	1,285.28	35.00	36.72	1.46	53.50
1962	180.48	35.00	5.16	2.12	10.93
1963	1,029.08	35.00	29.40	2.45	72.10
1964	421.47	35.00	12.04	2.79	33.54
1967	421.04	35.00	12.03	3.79	45.57
1969	4.68	35.00	0.13	4.45	0.60
1970	253.31	35.00	7.24	4.79	34.67
1971	468.94	35.00	13.40	5.13	68.70
1972	566.38	35.00	16.18	5.47	88.46
1973	24.36	35.00	0.70	5.81	4.04
1975	2,925.93	35.00	83.60	6.50	543.25
1981	141.08	35.00	4.03	8.64	34.83
1983	1,027.70	35.00	29.36	9.39	275.62

PAWC - Water Operations
Water Operations
304.65 Miscellaneous Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1986	1,967.20	35.00	56.21	10.54	592.47
1987	6,676.54	35.00	190.76	10.94	2,086.26
1988	3,182.41	35.00	90.93	11.34	1,030.93
1989	525.11	35.00	15.00	11.75	176.22
1991	2,489.17	35.00	71.12	12.58	894.63
1992	1,478.76	35.00	42.25	13.01	549.54
1996	22,045.47	35.00	629.87	14.79	9,317.26
1997	6,677.97	35.00	190.80	15.26	2,911.55
1998	4,508.07	35.00	128.80	15.74	2,026.88
2003	65,913.56	35.00	1,883.24	18.27	34,408.73
2004	204,717.34	35.00	5,849.05	18.81	110,031.94
2005	175,582.84	35.00	5,016.64	19.37	97,148.44
2006	63,869.80	35.00	1,824.85	19.93	36,371.96
2007	262,123.35	35.00	7,489.22	20.51	153,613.63
2008	327,814.87	35.00	9,366.11	21.11	197,673.65
2009	26,499.10	35.00	757.12	21.71	16,439.09
2010	148,396.43	35.00	4,239.89	22.34	94,706.62
2011	1,710.45	35.00	48.87	22.98	1,122.90
2012	59,457.08	35.00	1,698.77	23.63	40,149.13
2013	28,675.54	35.00	819.30	24.31	19,915.93
2014	11,769.80	35.00	336.28	25.00	8,407.24
2015	592,316.95	35.00	16,923.30	25.71	435,128.42
2016	485,385.52	35.00	13,868.12	26.44	366,686.99
2017	369,909.50	35.00	10,568.81	27.19	287,388.62
2018	769,199.51	35.00	21,977.07	27.96	614,571.38
2019	38.71	35.00	1.11	28.76	31.81
2020	9,344.71	35.00	266.99	29.57	7,896.05

PAWC - Water Operations
Water Operations
304.65 Miscellaneous Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2021	35,363.13	35.00	1,010.37	30.41	30,729.15
2022	36,146.90	35.00	1,032.77	31.28	32,302.08
2023	710,947.37	35.00	20,312.73	32.16	653,346.27
2025	975,891.16	35.00	27,882.53	34.02	948,656.43
2026	155,329.22	35.00	4,437.97	34.75	154,224.76
Total	5,587,736.60	27.88	159,320.63	27.38	4,361,838.63

Composite Average Remaining Life ... 27.38 Years

PAWC - Water Operations
Water Operations
305.20 Collecting Reservoirs - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 75 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1975	3,696.63	75.00	49.29	29.78	1,467.95
1976	33,873.94	75.00	451.65	30.52	13,782.89
1977	10,916.92	75.00	145.56	31.26	4,550.48
1978	1,349.94	75.00	18.00	32.01	576.20
1979	1,950.67	75.00	26.01	32.77	852.32
1980	4,963.85	75.00	66.18	33.54	2,219.76
1981	40,478.96	75.00	539.72	34.31	18,518.93
1982	6,586.84	75.00	87.82	35.09	3,081.96
1983	23,816.23	75.00	317.55	35.88	11,394.59
1984	9,522.41	75.00	126.97	36.68	4,656.83
1985	9,787.50	75.00	130.50	37.48	4,891.06
1986	63,587.47	75.00	847.83	38.29	32,464.35
1987	238,785.72	75.00	3,183.81	39.11	124,508.65
1988	5,057.13	75.00	67.43	39.93	2,692.34
1989	10,658.11	75.00	142.11	40.76	5,792.38
1990	6,573.40	75.00	87.65	41.60	3,645.71
1991	64,197.42	75.00	855.97	42.44	36,325.25
1992	488,163.58	75.00	6,508.85	43.29	281,758.04
1993	11,903.21	75.00	158.71	44.14	7,005.94
1994	590.47	75.00	7.87	45.00	354.31
1995	402,185.05	75.00	5,362.47	45.87	245,989.72
1996	24,583.99	75.00	327.79	46.75	15,322.47
1997	584,524.50	75.00	7,793.66	47.62	371,160.53
1998	8,582.75	75.00	114.44	48.51	5,551.27
2000	36,206.67	75.00	482.76	50.29	24,279.79
2001	107,327.29	75.00	1,431.03	51.20	73,263.64
2002	121,804.01	75.00	1,624.05	52.10	84,616.58

PAWC - Water Operations
Water Operations
305.20 Collecting Reservoirs - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2003	6,013.22	75.00	80.18	53.01	4,250.34
2006	13,535.28	75.00	180.47	55.77	10,065.62
2007	22,971.49	75.00	306.29	56.71	17,367.99
2014	1,219,266.97	75.00	16,256.89	63.32	1,029,428.50
2016	7,735.78	75.00	103.14	65.24	6,729.55
2017	107,019.88	75.00	1,426.93	66.21	94,476.18
2019	385,025.55	75.00	5,133.67	68.15	349,848.21
2020	632,820.09	75.00	8,437.60	69.12	583,209.89
2023	1,227,876.69	75.00	16,371.69	72.05	1,179,609.18
2024	4,929,950.44	75.00	65,732.67	73.03	4,800,625.38
2025	549,203.56	75.00	7,322.71	74.02	541,995.93
Total	11,423,093.61	75.00	152,307.91	65.65	9,998,330.68

Composite Average Remaining Life ... 65.65 Years

PAWC - Water Operations
Water Operations
306.10 Lake Intakes - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1962	4,167.41	55.00	75.77	12.52	948.37
1966	6,696.14	55.00	121.75	13.91	1,693.34
1970	1,783.13	55.00	32.42	15.41	499.51
1990	18,120.03	55.00	329.46	25.07	8,258.89
1992	743,957.01	55.00	13,526.49	26.28	355,525.26
1995	1,697,864.04	55.00	30,870.26	28.21	870,868.68
1996	16,079.46	55.00	292.35	28.88	8,442.56
1997	9,262,132.20	55.00	168,402.42	29.56	4,978,420.45
1998	153,399.52	55.00	2,789.08	30.26	84,401.72
2004	89,428.33	55.00	1,625.97	34.75	56,508.16
2005	48,578.25	55.00	883.24	35.55	31,401.79
2007	52,227.42	55.00	949.59	37.19	35,316.27
2008	24,096.05	55.00	438.11	38.03	16,662.56
2018	210,583.17	55.00	3,828.79	47.12	180,394.08
Total	12,329,112.16	55.00	224,165.69	29.57	6,629,341.65

Composite Average Remaining Life ... 29.57 Years

PAWC - Water Operations
Water Operations
306.20 Lake Intakes - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1903	410.39	0.00	0.00	0.00	0.00
1905	534.43	0.00	0.00	0.00	0.00
1906	75.36	0.00	0.00	0.00	0.00
1907	35.28	0.00	0.00	0.00	0.00
1908	3,802.04	0.00	0.00	0.00	0.00
1909	483.18	0.00	0.00	0.00	0.00
1914	78.40	0.00	0.00	0.00	0.00
1915	1,821.25	0.00	0.00	0.00	0.00
1916	339.02	0.00	0.00	0.00	0.00
1920	325.59	0.00	0.00	0.00	0.00
1924	169.04	0.00	0.00	0.00	0.00
1934	259.69	50.00	5.19	2.82	14.63
1937	1,562.87	50.00	31.26	3.82	119.51
1938	212.56	50.00	4.25	4.16	17.68
1948	4,010.11	50.00	80.20	7.51	602.47
1954	498.28	50.00	9.97	9.58	95.43
1955	1,186.11	50.00	23.72	9.93	235.47
1959	0.02	50.00	0.00	11.35	0.00
1961	190,082.61	50.00	3,801.65	12.08	45,915.93
1962	2,379.72	50.00	47.59	12.45	592.35
1963	0.34	50.00	0.01	12.82	0.09
1964	12,769.99	50.00	255.40	13.19	3,368.94
1966	20,748.56	50.00	414.97	13.95	5,788.32
1967	34,143.96	50.00	682.88	14.33	9,787.59
1968	3,233.89	50.00	64.68	14.72	952.09
1969	330,412.38	50.00	6,608.24	15.11	99,863.63
1970	237.03	50.00	4.74	15.51	73.51

PAWC - Water Operations
Water Operations
306.20 Lake Intakes - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1972	2,354.32	50.00	47.09	16.31	767.98
1973	187,614.58	50.00	3,752.29	16.72	62,729.84
1974	681.97	50.00	13.64	17.13	233.64
1976	4,852.30	50.00	97.05	17.97	1,743.73
1979	4,513.05	50.00	90.26	19.26	1,738.64
1980	216.19	50.00	4.32	19.70	85.20
1982	0.25	50.00	0.00	20.60	0.10
1983	581.03	50.00	11.62	21.06	244.78
1984	7,023.48	50.00	140.47	21.53	3,024.21
1985	697.88	50.00	13.96	22.00	307.08
1986	5,080.50	50.00	101.61	22.48	2,284.07
1987	367.98	50.00	7.36	22.96	169.00
1988	324.97	50.00	6.50	23.46	152.44
1989	29,358.08	50.00	587.16	23.95	14,064.69
1991	298,477.84	50.00	5,969.55	24.97	149,079.64
1992	13,193.06	50.00	263.86	25.49	6,727.07
1994	7,099.58	50.00	141.99	26.56	3,771.57
1996	984,488.40	50.00	19,689.75	27.66	544,684.88
1997	104,446.54	50.00	2,088.93	28.23	58,965.41
1998	4,130.31	50.00	82.61	28.80	2,379.15
1999	424,004.45	50.00	8,480.08	29.38	249,181.85
2001	11,450.40	50.00	229.01	30.58	7,003.27
2002	110,605.59	50.00	2,212.11	31.19	69,006.48
2006	199,267.35	50.00	3,985.34	33.76	134,554.79
2007	431,304.73	50.00	8,626.09	34.43	297,029.54
2008	71,498.70	50.00	1,429.97	35.12	50,217.56
2011	35,369.46	50.00	707.39	37.25	26,349.03

PAWC - Water Operations
Water Operations
306.20 Lake Intakes - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2013	63,613.56	50.00	1,272.27	38.74	49,284.74
2014	6,708.45	50.00	134.17	39.50	5,300.22
2017	303,443.55	50.00	6,068.86	41.90	254,255.39
2019	144,996.82	50.00	2,899.93	43.57	126,347.62
2020	65,210.69	50.00	1,304.21	44.43	57,948.03
2021	110,041.39	50.00	2,200.83	45.31	99,721.97
2023	1,193,969.83	50.00	23,879.37	47.13	1,125,319.38
2025	2,794,308.00	50.00	55,886.10	49.02	2,739,422.94
Total	8,231,107.38	41.13	164,460.49	38.38	6,311,523.58

Composite Average Remaining Life ... 38.38 Years

PAWC - Water Operations
Water Operations
307.00 Wells and Springs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1901	681.93	0.00	0.00	0.00	0.00
1904	1,464.95	0.00	0.00	0.00	0.00
1905	11,469.70	0.00	0.00	0.00	0.00
1907	59.56	0.00	0.00	0.00	0.00
1908	10.92	0.00	0.00	0.00	0.00
1910	6,312.19	0.00	0.00	0.00	0.00
1912	844.78	0.00	0.00	0.00	0.00
1913	1,485.52	0.00	0.00	0.00	0.00
1914	681.15	0.00	0.00	0.00	0.00
1915	2,497.70	0.00	0.00	0.00	0.00
1916	1,749.01	0.00	0.00	0.00	0.00
1918	1,176.08	55.00	21.38	0.80	17.18
1920	61.59	55.00	1.12	1.50	1.68
1922	2,800.86	55.00	50.92	2.22	112.88
1923	9,805.16	55.00	178.28	2.58	460.55
1924	8,312.21	55.00	151.13	2.95	446.20
1926	457.16	55.00	8.31	3.70	30.72
1927	1,171.62	55.00	21.30	4.07	86.63
1930	8.95	55.00	0.16	5.19	0.85
1934	197.86	55.00	3.60	6.71	24.12
1935	1,242.93	55.00	22.60	7.09	160.18
1937	3,037.93	55.00	55.24	7.86	433.96
1938	239.68	55.00	4.36	8.24	35.92
1939	2,531.85	55.00	46.03	8.63	397.18
1940	74.35	55.00	1.35	9.02	12.19
1941	825.77	55.00	15.01	9.41	141.24
1945	4,298.99	55.00	78.16	10.98	858.04

PAWC - Water Operations
Water Operations
307.00 Wells and Springs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1946	223.23	55.00	4.06	11.37	46.16
1948	861.30	55.00	15.66	12.17	190.61
1950	107.48	55.00	1.95	12.98	25.36
1951	605.10	55.00	11.00	13.38	147.20
1953	12,940.30	55.00	235.28	14.19	3,339.44
1954	14,752.89	55.00	268.23	14.60	3,916.93
1955	12,112.59	55.00	220.23	15.01	3,306.43
1956	1,595.84	55.00	29.02	15.43	447.60
1957	25,321.59	55.00	460.39	15.84	7,293.16
1958	2,582.60	55.00	46.96	16.26	763.43
1959	1,920.72	55.00	34.92	16.68	582.39
1960	45,989.30	55.00	836.17	17.10	14,296.06
1961	4,462.49	55.00	81.14	17.52	1,421.47
1962	2,997.16	55.00	54.49	17.94	977.85
1963	8,633.83	55.00	156.98	18.37	2,883.91
1964	2,114.28	55.00	38.44	18.80	722.71
1965	13,643.97	55.00	248.07	19.23	4,770.74
1966	120,566.08	55.00	2,192.11	19.66	43,107.21
1967	4,200.85	55.00	76.38	20.10	1,535.26
1968	7,099.79	55.00	129.09	20.54	2,651.29
1969	56,380.98	55.00	1,025.11	20.98	21,506.30
1970	7,896.19	55.00	143.57	21.42	3,075.60
1971	31,770.82	55.00	577.65	21.87	12,632.40
1972	101,470.63	55.00	1,844.92	22.32	41,173.21
1973	100,432.43	55.00	1,826.04	22.77	41,575.98
1974	38,731.78	55.00	704.21	23.22	16,353.48
1975	9,075.85	55.00	165.02	23.68	3,907.45

PAWC - Water Operations
Water Operations
307.00 Wells and Springs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1976	108,029.28	55.00	1,964.17	24.14	47,413.61
1977	20,490.03	55.00	372.55	24.60	9,165.50
1978	178,729.50	55.00	3,249.63	25.07	81,463.32
1979	92,568.39	55.00	1,683.06	25.54	42,981.91
1980	224,448.24	55.00	4,080.87	26.01	106,145.32
1981	134,002.70	55.00	2,436.41	26.49	64,532.51
1982	297,910.23	55.00	5,416.55	26.97	146,065.32
1983	167,873.11	55.00	3,052.24	27.45	83,783.73
1984	49,303.78	55.00	896.43	27.94	25,043.72
1985	97,160.86	55.00	1,766.56	28.43	50,219.15
1986	89,535.96	55.00	1,627.93	28.92	47,084.23
1987	304,913.16	55.00	5,543.87	29.42	163,112.59
1988	209,822.34	55.00	3,814.95	29.93	114,164.98
1989	96,664.83	55.00	1,757.54	30.43	53,488.32
1990	942,766.58	55.00	17,141.20	30.95	530,452.46
1991	90,932.61	55.00	1,653.32	31.46	52,017.68
1992	222,370.82	55.00	4,043.10	31.98	129,317.90
1993	80,566.53	55.00	1,464.84	32.51	47,625.14
1994	11,303.91	55.00	205.53	33.04	6,791.49
1995	77,258.54	55.00	1,404.70	33.58	47,173.07
1996	210,950.90	55.00	3,835.47	34.12	130,884.42
1997	132,590.72	55.00	2,410.74	34.67	83,590.66
1998	61,315.68	55.00	1,114.83	35.23	39,275.29
1999	40,117.29	55.00	729.40	35.79	26,106.61
2000	893,302.05	55.00	16,241.84	36.36	590,552.88
2001	249,456.87	55.00	4,535.58	36.94	167,521.61
2002	304,629.46	55.00	5,538.71	37.52	207,791.02

PAWC - Water Operations
Water Operations
307.00 Wells and Springs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2003	144,275.25	55.00	2,623.18	38.11	99,959.17
2004	992,896.65	55.00	18,052.65	38.70	698,703.10
2005	2,656.44	55.00	48.30	39.31	1,898.59
2006	231,131.79	55.00	4,202.39	39.92	167,772.90
2007	502,115.51	55.00	9,129.37	40.54	370,144.04
2008	311,828.77	55.00	5,669.61	41.18	233,456.54
2009	8,573.91	55.00	155.89	41.82	6,519.13
2010	274,129.70	55.00	4,984.17	42.47	211,684.14
2011	339,764.18	55.00	6,177.53	43.13	266,462.72
2012	103,715.77	55.00	1,885.74	43.81	82,611.24
2013	217,566.75	55.00	3,955.76	44.49	176,002.53
2014	173,233.36	55.00	3,149.70	45.19	142,341.47
2015	1,153,991.75	55.00	20,981.65	45.90	963,159.85
2016	83,509.85	55.00	1,518.36	46.63	70,803.80
2017	28,746.62	55.00	522.67	47.37	24,760.64
2018	120,560.07	55.00	2,192.00	48.13	105,499.29
2019	136,512.89	55.00	2,482.05	48.91	121,386.66
2020	262,149.07	55.00	4,766.34	49.70	236,892.84
2021	186,021.65	55.00	3,382.21	50.52	170,859.11
2022	1,580,320.53	55.00	28,733.08	51.36	1,475,595.20
2023	297,050.29	55.00	5,400.91	52.22	282,026.84
2024	63,501.73	55.00	1,154.58	53.11	61,314.85
2025	1,372,071.88	55.00	24,946.74	54.03	1,347,907.01
Total	14,667,329.25	49.18	266,182.94	40.00	10,647,395.26

Composite Average Remaining Life ... 40.00 Years

PAWC - Water Operations
Water Operations
310.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 45 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1931	3,609.84	0.00	0.00	0.00	0.00
1936	2,809.10	0.00	0.00	0.00	0.00
1937	4,520.24	45.00	100.45	0.50	50.22
1940	2,939.00	45.00	65.31	1.45	94.59
1944	1.00	45.00	0.02	2.80	0.06
1954	8,338.50	45.00	185.30	6.15	1,140.11
1957	1,178.00	45.00	26.18	7.17	187.66
1958	5,336.00	45.00	118.58	7.51	890.67
1959	107.00	45.00	2.38	7.86	18.68
1963	940.00	45.00	20.89	9.25	193.25
1965	6,019.00	45.00	133.76	9.96	1,332.85
1966	142.00	45.00	3.16	10.32	32.58
1967	7,319.00	45.00	162.64	10.69	1,738.26
1968	23,061.00	45.00	512.47	11.05	5,664.95
1969	45,202.40	45.00	1,004.50	11.42	11,475.74
1970	206.00	45.00	4.58	11.80	54.00
1972	7,872.85	45.00	174.95	12.55	2,196.38
1973	136.00	45.00	3.02	12.94	39.10
1974	52,315.00	45.00	1,162.56	13.33	15,493.57
1975	38,313.36	45.00	851.41	13.72	11,680.58
1980	25,076.66	45.00	557.26	15.75	8,777.00
1981	585.65	45.00	13.01	16.17	210.46
1982	11,137.43	45.00	247.50	16.60	4,108.00
1983	2,509.00	45.00	55.76	17.03	949.53
1991	39,570.00	45.00	879.33	20.72	18,216.18
1992	48,752.04	45.00	1,083.38	21.21	22,976.67
1993	23,243.53	45.00	516.52	21.71	11,213.58

PAWC - Water Operations
Water Operations
310.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 45 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1994	107,457.50	45.00	2,387.94	22.22	53,056.72
1995	1,076.42	45.00	23.92	22.74	543.85
1996	7,932.48	45.00	176.28	23.26	4,100.53
1997	1,040,121.31	45.00	23,113.80	23.80	550,060.95
1998	20,346.13	45.00	452.14	24.34	11,006.22
1999	250,124.14	45.00	5,558.31	24.90	138,386.02
2000	96,600.18	45.00	2,146.67	25.46	54,657.44
2001	3,572.21	45.00	79.38	26.04	2,066.81
2002	189,643.82	45.00	4,214.31	26.62	112,198.71
2003	241,761.04	45.00	5,372.47	27.22	146,239.69
2004	86,744.06	45.00	1,927.65	27.83	53,643.50
2005	261,676.97	45.00	5,815.04	28.45	165,429.47
2006	370,647.36	45.00	8,236.61	29.08	239,540.90
2007	106,124.17	45.00	2,358.31	29.73	70,107.67
2008	133,786.35	45.00	2,973.03	30.39	90,339.09
2009	129,823.10	45.00	2,884.96	31.06	89,600.63
2010	97,770.04	45.00	2,172.67	31.74	68,967.62
2011	401,064.15	45.00	8,912.53	32.45	289,170.40
2012	6,230,204.92	45.00	138,448.95	33.16	4,591,020.97
2013	5,465,954.46	45.00	121,465.62	33.89	4,116,526.62
2014	619,366.07	45.00	13,763.69	34.64	476,719.57
2015	609,698.44	45.00	13,548.85	35.40	479,626.26
2016	160,719.19	45.00	3,571.54	36.18	129,213.02
2017	266,682.99	45.00	5,926.29	36.97	219,119.58
2018	983,860.91	45.00	21,863.57	37.79	826,161.28
2019	344,429.87	45.00	7,653.99	38.62	295,580.72
2020	278,768.83	45.00	6,194.86	39.47	244,509.33

PAWC - Water Operations
Water Operations
310.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *45* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2021	193,906.93	45.00	4,309.04	40.34	173,820.02
2022	168,052.35	45.00	3,734.50	41.23	153,960.45
2023	5,452,340.43	45.00	121,163.08	42.13	5,105,184.48
2024	839,770.15	45.00	18,661.55	43.07	803,692.76
2025	1,604,430.51	45.00	35,654.00	44.02	1,569,485.76
Total	27,125,697.08	43.47	602,650.43	35.58	21,442,471.73

Composite Average Remaining Life ... 35.58 Years

PAWC - Water Operations
Water Operations
311.20 Pumping Equipment - Electric
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 39 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1957	5,665.47	39.00	145.27	3.34	485.41
1958	73.73	39.00	1.89	3.72	7.02
1974	4,964.56	39.00	127.30	9.97	1,269.18
1977	19,220.56	39.00	492.83	11.21	5,522.31
1978	18,997.35	39.00	487.11	11.62	5,661.05
1979	4,205.00	39.00	107.82	12.04	1,298.32
1980	431.91	39.00	11.07	12.46	138.03
1981	9,166.75	39.00	235.04	12.89	3,029.43
1982	1,040.96	39.00	26.69	13.32	355.45
1983	2,613.98	39.00	67.02	13.75	921.50
1984	1,389.79	39.00	35.64	14.18	505.43
1987	741.00	39.00	19.00	15.51	294.66
1988	1,485.00	39.00	38.08	15.96	607.60
1989	5,955.25	39.00	152.70	16.41	2,505.82
1990	10,310.16	39.00	264.36	16.87	4,459.07
1991	9,057.70	39.00	232.25	17.33	4,024.49
1992	66,074.21	39.00	1,694.20	17.79	30,146.90
1993	20,263.16	39.00	519.57	18.26	9,489.46
1995	9,518.47	39.00	244.06	19.22	4,690.72
1996	119,141.88	39.00	3,054.90	19.70	60,195.04
1997	16,672.84	39.00	427.51	20.20	8,633.53
1998	14,990.79	39.00	384.38	20.69	7,953.20
1999	2,598.51	39.00	66.63	21.19	1,412.08
2000	1,860.29	39.00	47.70	21.70	1,035.15
2001	42,316.60	39.00	1,085.04	22.22	24,105.97
2002	44,041.12	39.00	1,129.25	22.74	25,677.00
2003	1,023,633.44	39.00	26,246.87	23.27	610,694.55

PAWC - Water Operations
Water Operations
311.20 Pumping Equipment - Electric

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2004	152,038.10	39.00	3,898.39	23.80	92,797.13
2005	355,301.76	39.00	9,110.25	24.35	221,816.58
2006	2,818,689.71	39.00	72,273.71	24.90	1,799,691.60
2007	47,776.02	39.00	1,225.02	25.46	31,191.63
2008	265,426.92	39.00	6,805.78	26.03	177,178.28
2009	38,624.68	39.00	990.37	26.61	26,357.34
2010	58,569.19	39.00	1,501.77	27.21	40,856.25
2011	117,249.98	39.00	3,006.39	27.81	83,602.17
2012	910,546.04	39.00	23,347.21	28.42	663,573.35
2013	344,080.13	39.00	8,822.52	29.05	256,287.72
2014	4,353,903.43	39.00	111,637.95	29.69	3,314,420.03
2015	360,443.02	39.00	9,242.08	30.34	280,446.62
2016	551,559.32	39.00	14,142.47	31.01	438,615.38
2017	145,324.53	39.00	3,726.25	31.70	118,130.50
2018	1,683,376.44	39.00	43,163.27	32.41	1,398,766.32
2019	857,993.31	39.00	21,999.71	33.13	728,915.99
2020	2,206,232.16	39.00	56,569.75	33.88	1,916,620.96
2021	1,487,352.61	39.00	38,137.04	34.65	1,321,476.31
2022	59,557.50	39.00	1,527.11	35.45	54,134.99
2023	1,020,364.40	39.00	26,163.05	36.28	949,077.48
2024	78,642.08	39.00	2,016.45	37.14	74,889.45
2025	2,009,413.32	39.00	51,523.14	38.04	1,959,929.72
2026	4,387,338.80	39.00	112,495.26	38.75	4,359,346.20
Total	25,766,233.93	39.00	660,669.11	31.97	21,123,240.38

Composite Average Remaining Life ... 31.97 Years

PAWC - Water Operations
Water Operations
311.50 Pumping Equipment - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 39 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1990	1,801.52	39.00	46.19	16.87	779.14
1995	401.15	39.00	10.29	19.22	197.69
1998	1,318.78	39.00	33.81	20.69	699.66
1999	5,730.18	39.00	146.93	21.19	3,113.90
2000	161,230.70	39.00	4,134.10	21.70	89,716.48
2003	3,916.03	39.00	100.41	23.27	2,336.28
2004	38,641.82	39.00	990.81	23.80	23,585.21
2005	87,881.47	39.00	2,253.36	24.35	54,864.82
2006	52,353.05	39.00	1,342.38	24.90	33,426.65
2007	5,522.97	39.00	141.61	25.46	3,605.79
2010	64,245.34	39.00	1,647.31	27.21	44,815.78
2011	116,559.46	39.00	2,988.69	27.81	83,109.81
2012	1,920.72	39.00	49.25	28.42	1,399.75
2013	645,473.78	39.00	16,550.52	29.05	480,780.45
2014	7,874.61	39.00	201.91	29.69	5,994.57
2016	70,154.05	39.00	1,798.81	31.01	55,788.46
2017	8,939.19	39.00	229.21	31.70	7,266.43
2018	6,412.66	39.00	164.43	32.41	5,328.47
2019	664,392.78	39.00	17,035.62	33.13	564,440.91
2020	2,543,133.58	39.00	65,208.20	33.88	2,209,297.47
2021	2,525,382.86	39.00	64,753.06	34.65	2,243,740.73
2022	4,948,991.53	39.00	126,896.54	35.45	4,498,402.12
2023	6,176,829.39	39.00	158,379.39	36.28	5,745,290.26
2024	6,389,083.84	39.00	163,821.78	37.14	6,084,210.73
2025	4,207,575.31	39.00	107,885.97	38.04	4,103,960.01
2026	982,285.95	39.00	25,186.68	38.75	976,018.66

PAWC - Water Operations
Water Operations
311.50 Pumping Equipment - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	29,718,052.72	39.00	761,997.25	35.86	27,322,170.23

Composite Average Remaining Life ... *35.86 Years*

PAWC - Water Operations
Water Operations
311.52 Pumping Equipment - SOS
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1995	500.74	39.00	12.84	19.22	246.77
1997	242.21	39.00	6.21	20.20	125.42
2007	302,979.30	39.00	7,768.66	25.46	197,806.73
2008	106,545.19	39.00	2,731.91	26.03	71,121.25
2009	90,997.69	39.00	2,333.26	26.61	62,096.49
2010	665,309.01	39.00	17,059.11	27.21	464,101.22
2011	673,316.56	39.00	17,264.43	27.81	480,091.53
2012	213,917.90	39.00	5,485.04	28.42	155,895.71
2013	1,167,611.55	39.00	29,938.60	29.05	869,694.21
2014	1,470,086.74	39.00	37,694.33	29.69	1,119,107.26
2015	1,333,851.63	39.00	34,201.14	30.34	1,037,817.79
2016	1,650,181.56	39.00	42,312.12	31.01	1,312,270.49
2017	2,025,413.90	39.00	51,933.41	31.70	1,646,405.87
2018	970,045.83	39.00	24,872.84	32.41	806,039.22
2019	325,033.26	39.00	8,334.14	33.13	276,134.95
2020	119,694.64	39.00	3,069.08	33.88	103,982.37
2021	268,274.05	39.00	6,878.78	34.65	238,354.91
2023	21,622.78	39.00	554.43	36.28	20,112.12
Total	11,405,624.54	39.00	292,450.34	30.30	8,861,404.30

Composite Average Remaining Life ... 30.30 Years

PAWC - Water Operations
Water Operations
311.53 Pumping Equipment - Water Treatment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 39 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1910	137.73	0.00	0.00	0.00	0.00
1917	133.00	0.00	0.00	0.00	0.00
1919	8,727.40	0.00	0.00	0.00	0.00
1928	134.45	0.00	0.00	0.00	0.00
1929	274.09	0.00	0.00	0.00	0.00
1930	10.36	0.00	0.00	0.00	0.00
1931	3,609.84	0.00	0.00	0.00	0.00
1937	1,084.39	0.00	0.00	0.00	0.00
1939	195.67	0.00	0.00	0.00	0.00
1941	233.57	0.00	0.00	0.00	0.00
1942	901.65	0.00	0.00	0.00	0.00
1944	22.40	0.00	0.00	0.00	0.00
1945	612.26	0.00	0.00	0.00	0.00
1946	36.51	0.00	0.00	0.00	0.00
1947	175.93	0.00	0.00	0.00	0.00
1948	1,721.87	0.00	0.00	0.00	0.00
1950	176.72	39.00	4.53	0.81	3.66
1951	14,946.31	39.00	383.24	1.14	438.16
1952	33,162.46	39.00	850.31	1.50	1,278.84
1953	14,955.45	39.00	383.47	1.86	713.92
1954	9,781.62	39.00	250.81	2.23	559.61
1955	2,307.03	39.00	59.15	2.60	153.59
1956	984.21	39.00	25.24	2.97	74.87
1957	15,308.52	39.00	392.52	3.34	1,311.61
1958	2,821.39	39.00	72.34	3.72	268.79
1959	30,581.95	39.00	784.15	4.09	3,210.00
1960	74,879.69	39.00	1,919.98	4.47	8,584.26

PAWC - Water Operations
Water Operations
311.53 Pumping Equipment - Water Treatment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 39 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1961	172,778.06	39.00	4,430.18	4.85	21,498.14
1962	3,846.01	39.00	98.62	5.23	516.10
1963	21,459.38	39.00	550.24	5.62	3,091.62
1964	32,655.26	39.00	837.31	6.00	5,026.50
1965	199,549.50	39.00	5,116.63	6.39	32,697.08
1966	11,660.13	39.00	298.98	6.78	2,027.19
1967	28,880.66	39.00	740.53	7.17	5,310.60
1968	95,517.72	39.00	2,449.16	7.57	18,528.99
1969	307,919.76	39.00	7,895.34	7.96	62,849.61
1970	5,567.23	39.00	142.75	8.36	1,193.18
1971	51,979.05	39.00	1,332.79	8.76	11,672.14
1972	423,176.07	39.00	10,850.61	9.16	99,385.65
1973	5,691,249.88	39.00	145,928.70	9.56	1,395,656.08
1974	22,347.74	39.00	573.02	9.97	5,713.15
1975	112,278.57	39.00	2,878.92	10.38	29,882.12
1976	70,968.42	39.00	1,819.69	10.79	19,636.06
1977	19,388.63	39.00	497.14	11.21	5,570.60
1978	9,787.72	39.00	250.97	11.62	2,916.66
1979	173,726.38	39.00	4,454.50	12.04	53,638.93
1980	146,097.95	39.00	3,746.08	12.46	46,689.64
1981	505,230.20	39.00	12,954.55	12.89	166,968.63
1982	684,624.45	39.00	17,554.38	13.32	233,775.83
1983	229,348.41	39.00	5,880.70	13.75	80,851.51
1984	311,320.96	39.00	7,982.55	14.18	113,220.00
1985	643,142.22	39.00	16,490.74	14.62	241,119.18
1986	407,620.75	39.00	10,451.76	15.06	157,436.32
1987	667,775.86	39.00	17,122.37	15.51	265,539.70

PAWC - Water Operations
Water Operations
311.53 Pumping Equipment - Water Treatment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1988	283,751.47	39.00	7,275.64	15.96	116,100.12
1989	418,946.17	39.00	10,742.15	16.41	176,281.76
1990	4,401,706.59	39.00	112,863.66	16.87	1,903,706.91
1991	1,019,819.94	39.00	26,149.09	17.33	453,123.49
1992	985,449.05	39.00	25,267.79	17.79	449,619.26
1993	1,214,131.28	39.00	31,131.40	18.26	568,590.78
1994	342,251.03	39.00	8,775.62	18.74	164,449.36
1995	3,082,931.12	39.00	79,049.09	19.22	1,519,273.17
1996	1,060,183.76	39.00	27,184.05	19.70	535,645.43
1997	3,345,175.84	39.00	85,773.28	20.20	1,732,199.88
1998	1,034,657.53	39.00	26,529.54	20.69	548,926.45
1999	3,189,091.46	39.00	81,771.14	21.19	1,733,017.83
2000	2,409,237.91	39.00	61,775.00	21.70	1,340,615.26
2001	2,395,199.84	39.00	61,415.05	22.22	1,364,443.88
2002	1,311,520.09	39.00	33,628.54	22.74	764,646.79
2003	2,219,803.79	39.00	56,917.74	23.27	1,324,323.75
2004	383,622.14	39.00	9,836.41	23.80	234,145.49
2005	64,788.35	39.00	1,661.23	24.35	40,447.67
2006	234,701.03	39.00	6,017.94	24.90	149,853.13
2007	1,472,539.40	39.00	37,757.22	25.46	961,379.87
2008	315,637.75	39.00	8,093.23	26.03	210,695.11
2009	166,046.08	39.00	4,257.57	26.61	113,309.24
2010	222,616.68	39.00	5,708.09	27.21	155,291.26
2011	329,273.84	39.00	8,442.87	27.81	234,780.47
2012	460,640.66	39.00	11,811.24	28.42	335,698.42
2013	203,020.58	39.00	5,205.63	29.05	151,219.66
2014	121,523.26	39.00	3,115.96	29.69	92,509.89

PAWC - Water Operations
Water Operations
311.53 Pumping Equipment - Water Treatment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 39 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2015	386,471.90	39.00	9,909.48	30.34	300,698.67
2016	297,614.05	39.00	7,631.09	31.01	236,671.01
2017	66,657.04	39.00	1,709.15	31.70	54,183.76
2018	891,894.73	39.00	22,868.97	32.41	741,101.20
2019	112,378.15	39.00	2,881.48	33.13	95,471.88
2020	142,298.54	39.00	3,648.66	33.88	123,619.07
2021	438,896.41	39.00	11,253.69	34.65	389,948.70
2022	118,121.94	39.00	3,028.75	35.45	107,367.33
2023	587,754.33	39.00	15,070.54	36.28	546,691.36
2024	25,792.73	39.00	661.35	37.14	24,561.96
2025	1,130,062.20	39.00	28,975.80	38.04	1,102,233.41
Total	48,154,022.10	32.22	1,234,250.05	19.60	24,195,851.19

Composite Average Remaining Life ... 19.60 Years

PAWC - Water Operations
Water Operations
311.54 Pumping Equipment - Transmission
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1999	35,292.32	39.00	904.93	21.19	19,178.57
2000	475,480.08	39.00	12,191.73	21.70	264,579.87
2001	36,531.40	39.00	936.70	22.22	20,810.39
2002	538,352.70	39.00	13,803.84	22.74	313,872.18
2003	70,588.30	39.00	1,809.95	23.27	42,112.62
2004	268,409.81	39.00	6,882.27	23.80	163,825.13
2005	16,038.24	39.00	411.23	24.35	10,012.75
2006	189,538.24	39.00	4,859.93	24.90	121,017.36
2007	1,098,486.35	39.00	28,166.17	25.46	717,171.07
2008	658,548.44	39.00	16,885.77	26.03	439,595.50
2009	1,314,447.17	39.00	33,703.59	26.61	896,973.94
2010	291,357.56	39.00	7,470.67	27.21	203,243.00
2011	161,831.12	39.00	4,149.49	27.81	115,389.63
2012	145,779.02	39.00	3,737.90	28.42	106,238.53
2013	243,526.60	39.00	6,244.24	29.05	181,390.53
2015	53,358.27	39.00	1,368.15	30.34	41,515.98
2016	287,116.14	39.00	7,361.91	31.01	228,322.78
2017	135,483.94	39.00	3,473.93	31.70	110,131.34
2018	157,143.96	39.00	4,029.31	32.41	130,575.47
2019	27,912.06	39.00	715.69	33.13	23,712.94
2020	81,516.58	39.00	2,090.16	33.88	70,815.93
2021	3,000.02	39.00	76.92	34.65	2,665.44
2022	48,563.86	39.00	1,245.22	35.45	44,142.28
2023	2,922,287.54	39.00	74,930.05	36.28	2,718,124.31
2024	28,865.32	39.00	740.13	37.14	27,487.93
2025	543,332.19	39.00	13,931.52	38.04	529,952.15

PAWC - Water Operations
Water Operations
311.54 Pumping Equipment - Transmission
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	9,832,787.23	39.00	252,121.39	29.92	7,542,857.63

Composite Average Remaining Life ... 29.92 Years

PAWC - Water Operations
Water Operations
320.10 Purification System - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1900	14,836.59	0.00	0.00	0.00	0.00
1903	17,503.17	0.00	0.00	0.00	0.00
1906	1,384.00	0.00	0.00	0.00	0.00
1907	187.12	0.00	0.00	0.00	0.00
1909	3,521.00	0.00	0.00	0.00	0.00
1910	1,630.96	0.00	0.00	0.00	0.00
1920	2.00	0.00	0.00	0.00	0.00
1921	42,429.29	0.00	0.00	0.00	0.00
1924	1,765.00	0.00	0.00	0.00	0.00
1927	254.95	50.00	5.10	0.50	2.55
1928	129.00	50.00	2.58	0.64	1.66
1929	49,801.23	50.00	996.02	0.87	864.60
1931	5,319.00	50.00	106.38	1.37	145.86
1935	11.26	50.00	0.23	2.44	0.55
1947	278.00	50.00	5.56	5.88	32.71
1949	14,516.83	50.00	290.34	6.49	1,884.26
1951	7,786.36	50.00	155.73	7.11	1,106.96
1952	30,268.98	50.00	605.38	7.42	4,492.96
1953	78,423.13	50.00	1,568.46	7.74	12,136.89
1954	24,571.68	50.00	491.43	8.06	3,959.69
1955	1,595.53	50.00	31.91	8.38	267.41
1956	179.54	50.00	3.59	8.71	31.26
1957	1,208.73	50.00	24.17	9.03	218.40
1958	1,634.57	50.00	32.69	9.37	306.21
1959	27,605.73	50.00	552.11	9.70	5,356.78
1961	80,918.05	50.00	1,618.36	10.38	16,805.87
1962	5,544.41	50.00	110.89	10.73	1,189.96

PAWC - Water Operations
Water Operations
320.10 Purification System - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1963	3,151.05	50.00	63.02	11.08	698.39
1964	977.76	50.00	19.56	11.44	223.64
1965	219,097.73	50.00	4,381.95	11.80	51,686.08
1966	310.40	50.00	6.21	12.16	75.48
1967	184.10	50.00	3.68	12.53	46.12
1968	3,136.88	50.00	62.74	12.90	809.17
1969	1,371,242.31	50.00	27,424.85	13.27	364,044.64
1970	4,526.51	50.00	90.53	13.66	1,236.26
1971	405.57	50.00	8.11	14.04	113.90
1972	822,086.47	50.00	16,441.73	14.43	237,316.24
1973	30,712.90	50.00	614.26	14.83	9,109.86
1974	84.31	50.00	1.69	15.23	25.69
1975	177,976.84	50.00	3,559.54	15.64	55,675.04
1976	25,568.85	50.00	511.38	16.05	8,210.14
1977	915.82	50.00	18.32	16.47	301.76
1979	6,225.74	50.00	124.51	17.33	2,158.29
1980	1,374.20	50.00	27.48	17.77	488.47
1981	8,541.92	50.00	170.84	18.22	3,112.51
1982	2,891,251.18	50.00	57,825.02	18.67	1,079,721.87
1983	136,339.49	50.00	2,726.79	19.13	52,171.11
1984	5,629.18	50.00	112.58	19.60	2,206.75
1985	1,677,659.54	50.00	33,553.19	20.08	673,645.99
1986	185,741.29	50.00	3,714.83	20.56	76,380.79
1987	27,765.36	50.00	555.31	21.05	11,691.19
1988	5,166,890.45	50.00	103,337.81	21.55	2,227,416.42
1989	3,568,437.10	50.00	71,368.74	22.06	1,574,737.75
1990	18,528,369.54	50.00	370,567.38	22.58	8,368,953.43

PAWC - Water Operations
Water Operations
320.10 Purification System - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1991	5,306,665.42	50.00	106,133.31	23.11	2,453,066.40
1992	10,136,881.74	50.00	202,737.63	23.65	4,795,119.80
1993	23,934,631.84	50.00	478,692.63	24.20	11,584,761.50
1994	1,782,330.61	50.00	35,646.61	24.76	882,622.78
1995	4,832,497.22	50.00	96,649.94	25.33	2,448,215.54
1996	378,441.77	50.00	7,568.84	25.91	196,126.54
1997	9,239,163.06	50.00	184,783.26	26.51	4,897,789.56
1998	910,429.68	50.00	18,208.59	27.11	493,648.66
1999	9,760,277.34	50.00	195,205.54	27.73	5,412,704.96
2000	355,612.04	50.00	7,112.24	28.36	201,691.84
2001	1,111,461.79	50.00	22,229.24	29.00	644,684.63
2003	2,316.85	50.00	46.34	30.33	1,405.35
2004	38,706.38	50.00	774.13	31.01	24,008.47
2005	80,991.72	50.00	1,619.83	31.71	51,369.58
2006	5,578,655.28	50.00	111,573.10	32.43	3,617,988.28
2007	172,593.45	50.00	3,451.87	33.16	114,452.02
2008	553,951.20	50.00	11,079.02	33.90	375,596.60
2009	589,198.43	50.00	11,783.97	34.66	408,462.34
2010	372,072.85	50.00	7,441.46	35.44	263,722.78
2011	9,820,334.80	50.00	196,406.69	36.23	7,116,440.42
2012	19,735,264.61	50.00	394,705.28	37.04	14,621,184.45
2013	3,631,525.71	50.00	72,630.51	37.87	2,750,526.45
2014	2,102,898.32	50.00	42,057.97	38.71	1,628,220.90
2016	562,914.51	50.00	11,258.29	40.45	455,410.96
2017	370,078.55	50.00	7,401.57	41.34	306,015.36
2018	46,774,088.85	50.00	935,481.76	42.25	39,528,051.08
2019	1,284,580.07	50.00	25,691.60	43.18	1,109,347.05

PAWC - Water Operations
Water Operations
320.10 Purification System - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: ***50*** ***Survivor Curve:*** ***S1***

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2021	12,889,604.34	50.00	257,792.08	45.07	11,619,562.25
2022	144,098.02	50.00	2,881.96	46.04	132,686.02
2023	15,613,629.75	50.00	312,272.59	47.02	14,682,538.91
2024	49,463.77	50.00	989.28	48.01	47,491.15
2026	15,919,008.04	50.00	318,380.15	49.75	15,839,333.02
Total	239,312,276.61	44.77	4,784,580.26	34.18	163,555,307.20

Composite Average Remaining Life ... ***34.18 Years***

PAWC - Water Operations
Water Operations
320.11 Purification System - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1930	38.33	50.00	0.77	1.11	0.85
1931	673.67	50.00	13.47	1.37	18.47
1932	5.08	50.00	0.10	1.63	0.17
1933	89.62	50.00	1.79	1.90	3.40
1934	57.99	50.00	1.16	2.17	2.51
1937	344.32	50.00	6.89	2.99	20.59
1938	191.96	50.00	3.84	3.27	12.55
1941	223.77	50.00	4.48	4.12	18.44
1942	10.23	50.00	0.20	4.41	0.90
1944	85.22	50.00	1.70	4.99	8.51
1946	899.12	50.00	17.98	5.58	100.39
1947	7,414.52	50.00	148.29	5.88	872.29
1948	156.50	50.00	3.13	6.18	19.36
1950	93.33	50.00	1.87	6.80	12.69
1951	97,441.53	50.00	1,948.83	7.11	13,852.88
1952	1,116.09	50.00	22.32	7.42	165.67
1953	216,852.04	50.00	4,337.04	7.74	33,560.36
1954	36,332.33	50.00	726.65	8.06	5,854.90
1955	24,372.05	50.00	487.44	8.38	4,084.69
1956	22,525.53	50.00	450.51	8.71	3,921.91
1957	9,422.16	50.00	188.44	9.03	1,702.46
1958	105,339.93	50.00	2,106.80	9.37	19,733.53
1959	12,096.02	50.00	241.92	9.70	2,347.18
1960	8,140.12	50.00	162.80	10.04	1,634.79
1961	198.33	50.00	3.97	10.38	41.19
1962	8,495.47	50.00	169.91	10.73	1,823.33
1963	394.09	50.00	7.88	11.08	87.34

PAWC - Water Operations
Water Operations
320.11 Purification System - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1964	1,806.05	50.00	36.12	11.44	413.10
1965	8,538.74	50.00	170.77	11.80	2,014.32
1966	2,005.35	50.00	40.11	12.16	487.63
1967	7,018.23	50.00	140.36	12.53	1,758.16
1968	511.01	50.00	10.22	12.90	131.82
1969	20,866.95	50.00	417.34	13.27	5,539.87
1970	942.79	50.00	18.86	13.66	257.49
1971	1,919.05	50.00	38.38	14.04	538.95
1972	29,476.11	50.00	589.52	14.43	8,509.03
1973	253,029.31	50.00	5,060.59	14.83	75,051.91
1974	142.87	50.00	2.86	15.23	43.53
1975	10,469.08	50.00	209.38	15.64	3,274.96
1976	1,710.57	50.00	34.21	16.05	549.26
1977	2,581.12	50.00	51.62	16.47	850.47
1978	12,162.41	50.00	243.25	16.90	4,111.15
1979	5,445.81	50.00	108.92	17.33	1,887.91
1980	3,288.95	50.00	65.78	17.77	1,169.08
1981	4,856.45	50.00	97.13	18.22	1,769.59
1982	16,151.13	50.00	323.02	18.67	6,031.55
1983	90,281.38	50.00	1,805.63	19.13	34,546.71
1984	37,024.11	50.00	740.48	19.60	14,514.16
1985	347,917.69	50.00	6,958.35	20.08	139,702.57
1986	387,464.23	50.00	7,749.28	20.56	159,333.58
1987	34,765.72	50.00	695.31	21.05	14,638.84
1988	116,753.67	50.00	2,335.07	21.55	50,331.83
1989	604,270.35	50.00	12,085.41	22.06	266,662.21
1990	374,040.70	50.00	7,480.81	22.58	168,947.90

PAWC - Water Operations
Water Operations
320.11 Purification System - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1991	115,559.04	50.00	2,311.18	23.11	53,418.48
1992	63.86	50.00	1.28	23.65	30.21
1993	3,883.73	50.00	77.67	24.20	1,879.79
1994	828,996.95	50.00	16,579.94	24.76	410,525.18
1995	26,338.50	50.00	526.77	25.33	13,343.48
1996	506,597.41	50.00	10,131.95	25.91	262,542.89
1997	144,312.88	50.00	2,886.26	26.51	76,501.96
1998	488.98	50.00	9.78	27.11	265.13
1999	23.75	50.00	0.47	27.73	13.17
2000	1,075.90	50.00	21.52	28.36	610.22
2001	718.33	50.00	14.37	29.00	416.66
2002	765,135.02	50.00	15,302.70	29.66	453,852.90
2003	172,667.82	50.00	3,453.36	30.33	104,736.39
2004	22,916.59	50.00	458.33	31.01	14,214.51
2005	40,094.38	50.00	801.89	31.71	25,430.15
2006	443,694.95	50.00	8,873.90	32.43	287,754.49
2007	320,332.86	50.00	6,406.66	33.16	212,422.55
2008	244,767.09	50.00	4,895.34	33.90	165,959.90
2009	280,432.56	50.00	5,608.65	34.66	194,410.12
2010	1,797.26	50.00	35.95	35.44	1,273.89
2011	104,962.85	50.00	2,099.26	36.23	76,062.77
2012	1,259,860.90	50.00	25,197.22	37.04	933,387.97
2013	856,989.97	50.00	17,139.80	37.87	649,086.30
2014	259,723.14	50.00	5,194.46	38.71	201,097.05
2016	136,074.76	50.00	2,721.50	40.45	110,087.65
2017	233,389.04	50.00	4,667.78	41.34	192,987.76
2018	1,128,217.21	50.00	22,564.34	42.25	953,438.72

PAWC - Water Operations
Water Operations
320.11 Purification System - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2019	1,944,561.54	50.00	38,891.23	43.18	1,679,298.68
2020	686,340.74	50.00	13,726.81	44.12	605,618.71
2021	1,727,607.69	50.00	34,552.15	45.07	1,557,382.57
2023	152,302.59	50.00	3,046.05	47.02	143,220.30
2025	12,672,341.40	50.00	253,446.82	49.00	12,419,113.98
Total	28,010,718.87	50.00	560,214.37	40.79	22,853,353.49

Composite Average Remaining Life ... 40.79 Years

PAWC - Water Operations
Water Operations
320.20 Chemical Treatment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 42 **Survivor Curve:** R0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1965	14,355.28	42.00	341.79	9.89	3,379.31
1966	1,688.98	42.00	40.21	10.29	413.72
1967	688.22	42.00	16.39	10.69	175.18
1968	59,108.21	42.00	1,407.32	11.10	15,616.04
1969	2,258.71	42.00	53.78	11.50	618.72
1970	8,536.97	42.00	203.26	11.92	2,422.09
1971	15,632.78	42.00	372.20	12.33	4,589.86
1972	32,603.76	42.00	776.27	12.75	9,897.89
1973	257,616.10	42.00	6,133.64	13.17	80,799.57
1974	31,941.16	42.00	760.49	13.60	10,342.92
1975	42,769.93	42.00	1,018.32	14.03	14,288.64
1976	1,073,863.59	42.00	25,567.85	14.47	369,904.09
1977	28,840.00	42.00	686.66	14.91	10,236.81
1978	51,727.94	42.00	1,231.60	15.35	18,909.62
1979	20,509.89	42.00	488.32	15.80	7,717.53
1980	61,671.01	42.00	1,468.34	16.26	23,874.49
1981	192,581.16	42.00	4,585.21	16.72	76,666.73
1982	7,527.22	42.00	179.22	17.19	3,080.09
1983	79,951.11	42.00	1,903.57	17.66	33,613.19
1984	292,693.25	42.00	6,968.80	18.13	126,377.00
1985	978,744.46	42.00	23,303.14	18.62	433,829.61
1986	2,083,104.19	42.00	49,597.07	19.10	947,547.31
1987	719,004.40	42.00	17,118.93	19.60	335,498.35
1988	111,285.48	42.00	2,649.62	20.10	53,249.89
1989	1,052,756.10	42.00	25,065.29	20.60	516,382.99
1990	436,377.41	42.00	10,389.80	21.11	219,341.18
1991	706,070.04	42.00	16,810.97	21.63	363,569.46

PAWC - Water Operations
Water Operations
320.20 Chemical Treatment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *42* ***Survivor Curve:*** *R0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1992	4,299,099.40	42.00	102,358.18	22.15	2,266,984.92
1993	99,614.98	42.00	2,371.75	22.67	53,775.77
1994	739,039.18	42.00	17,595.94	23.21	408,318.43
1995	4,638,977.20	42.00	110,450.40	23.74	2,622,270.90
1996	2,154,720.70	42.00	51,302.21	24.28	1,245,796.63
1997	3,334,739.32	42.00	79,397.52	24.83	1,971,431.13
1998	2,072,021.04	42.00	49,333.19	25.38	1,252,119.57
1999	7,194,288.92	42.00	171,290.36	25.94	4,442,773.72
2000	67,552.81	42.00	1,608.38	26.50	42,617.50
2001	2,457,933.54	42.00	58,521.46	27.06	1,583,667.93
2002	77,713.84	42.00	1,850.31	27.63	51,124.39
2003	1,964,206.88	42.00	46,766.22	28.20	1,318,914.08
2004	1,990,696.83	42.00	47,396.93	28.78	1,364,005.52
2005	2,161,553.64	42.00	51,464.89	29.36	1,510,873.19
2006	499,472.13	42.00	11,892.04	29.94	356,039.54
2007	1,947,345.46	42.00	46,364.76	30.52	1,415,268.80
2008	1,350,615.98	42.00	32,157.10	31.11	1,000,475.89
2009	82,919.55	42.00	1,974.25	31.70	62,588.15
2010	438,539.91	42.00	10,441.29	32.29	337,193.87
2011	1,033,930.77	42.00	24,617.08	32.89	809,609.17
2012	685,575.24	42.00	16,323.01	33.48	546,560.55
2013	1,516,285.09	42.00	36,101.56	34.08	1,230,387.82
2014	304,829.68	42.00	7,257.75	34.68	251,698.52
2015	3,645,945.28	42.00	86,807.09	35.28	3,062,598.61
2016	4,980,688.04	42.00	118,586.27	35.88	4,255,139.84
2017	2,403,250.89	42.00	57,219.51	36.49	2,087,703.65
2018	1,114,876.03	42.00	26,544.32	37.09	984,554.53

PAWC - Water Operations
Water Operations
320.20 Chemical Treatment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *42* ***Survivor Curve:*** *R0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2019	3,459,004.02	42.00	82,356.17	37.70	3,104,639.19
2020	7,834,644.60	42.00	186,536.73	38.31	7,145,609.12
2021	11,081,791.67	42.00	263,848.75	38.92	10,268,266.09
2022	13,412,801.43	42.00	319,348.25	39.53	12,623,712.88
2023	17,240,492.29	42.00	410,482.56	40.14	16,478,617.45
2024	10,795,822.82	42.00	257,040.05	40.76	10,477,197.18
2025	37,804,284.62	42.00	900,090.29	41.38	37,245,591.91
2026	718,747.56	42.00	17,112.81	41.84	716,084.61
Total	163,967,928.69	42.00	3,903,947.44	35.42	138,276,553.33

Composite Average Remaining Life ... 35.42 Years

PAWC - Water Operations
Water Operations
320.30 Granular Activated Carbon

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 11 **Survivor Curve:** L0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1992	755.89	11.00	68.71	1.80	123.57
1994	3,127.19	11.00	284.25	2.06	584.37
1995	22,529.51	11.00	2,047.85	2.17	4,449.59
1996	19,021.10	11.00	1,728.95	2.28	3,943.09
1998	24,638.62	11.00	2,239.56	2.48	5,561.23
1999	9,019.00	11.00	819.79	2.59	2,119.77
2000	242,357.48	11.00	22,029.42	2.70	59,413.29
2001	565,915.16	11.00	51,439.64	2.82	144,934.06
2002	259,574.29	11.00	23,594.36	2.95	69,576.35
2003	11,549.71	11.00	1,049.83	3.09	3,245.68
2007	133,689.45	11.00	12,151.89	3.78	45,937.61
2008	22,525.60	11.00	2,047.50	3.98	8,152.62
2009	290,056.89	11.00	26,365.12	4.20	110,602.17
2010	252,059.62	11.00	22,911.31	4.42	101,263.06
2011	762,602.88	11.00	69,317.84	4.66	322,839.33
2012	382,409.40	11.00	34,759.63	4.91	170,586.17
2013	1,278,638.81	11.00	116,223.63	5.17	600,981.65
2014	648,647.47	11.00	58,959.70	5.45	321,205.03
2015	2,088.22	11.00	189.81	5.74	1,089.36
2016	110,250.14	11.00	10,021.34	6.05	60,583.61
2017	406,505.55	11.00	36,949.88	6.37	235,283.34
2018	1,504,916.77	11.00	136,791.48	6.71	917,401.28
2019	1,347,102.38	11.00	122,446.72	7.06	864,868.71
2020	874,697.64	11.00	79,506.84	7.44	591,491.52
2021	768,470.48	11.00	69,851.18	7.85	548,360.38
2022	3,315,089.96	11.00	301,329.66	8.32	2,506,187.72
2023	7,727,540.14	11.00	702,405.38	8.86	6,220,035.34

PAWC - Water Operations
Water Operations
320.30 Granular Activated Carbon

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *11* ***Survivor Curve:*** *L0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2024	2,226,099.32	11.00	202,344.36	9.47	1,917,005.45
2025	799,177.36	11.00	72,642.32	10.18	739,503.00
Total	24,011,056.03	11.00	2,182,517.92	7.60	16,577,328.36

Composite Average Remaining Life ... 7.60 Years

PAWC - Water Operations
Water Operations
320.37 Waste Handling and Treatment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *30* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1991	6,031,805.84	30.00	201,059.90	4.09	823,212.72
1997	591,680.33	30.00	19,722.65	6.54	129,045.23
1999	1,596,632.54	30.00	53,221.01	7.61	404,908.63
2000	699,453.00	30.00	23,315.07	8.19	190,843.71
2002	3,157.82	30.00	105.26	9.43	992.36
2003	255,901.42	30.00	8,530.03	10.09	86,045.27
2004	25,359.24	30.00	845.31	10.77	9,106.47
2005	13,973.57	30.00	465.78	11.48	5,347.19
2013	15,011.73	30.00	500.39	17.83	8,921.96
2014	585,331.37	30.00	19,511.02	18.70	364,828.13
2015	1,026,831.36	30.00	34,227.66	19.58	670,226.94
2016	3,706,337.79	30.00	123,544.41	20.48	2,530,053.71
2017	16,485.57	30.00	549.52	21.39	11,753.37
2023	749,793.89	30.00	24,993.09	27.06	676,435.43
2025	5,307,125.52	30.00	176,903.92	29.02	5,133,208.32
2026	10,000.00	30.00	333.33	29.75	9,917.93
Total	20,634,880.99	30.00	687,828.35	16.07	11,054,847.37

Composite Average Remaining Life ... *16.07 Years*

PAWC - Water Operations
Water Operations
330.00 Distribution Reservoirs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 65 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1906	5,109.66	65.00	78.61	3.52	276.87
1907	47,241.62	65.00	726.79	3.85	2,799.26
1911	21,098.83	65.00	324.60	5.20	1,686.85
1912	4,854.07	65.00	74.68	5.53	412.89
1922	37,387.44	65.00	575.19	8.88	5,108.15
1923	14,226.55	65.00	218.87	9.22	2,017.41
1924	1,157.77	65.00	17.81	9.56	170.24
1929	2,414.86	65.00	37.15	11.26	418.50
1931	5,386.24	65.00	82.87	11.96	990.79
1933	64.84	65.00	1.00	12.65	12.62
1935	288.99	65.00	4.45	13.36	59.39
1938	6,784.14	65.00	104.37	14.43	1,505.85
1940	15,662.18	65.00	240.96	15.15	3,650.62
1941	8,303.02	65.00	127.74	15.52	1,981.98
1943	64.86	65.00	1.00	16.25	16.22
1949	20,278.60	65.00	311.98	18.51	5,776.09
1950	11,200.00	65.00	172.31	18.90	3,256.82
1951	84,442.64	65.00	1,299.12	19.29	25,060.32
1952	1,053.28	65.00	16.20	19.68	318.95
1953	765,700.78	65.00	11,780.00	20.08	236,516.20
1954	134,575.67	65.00	2,070.39	20.48	42,394.10
1955	58,990.21	65.00	907.54	20.88	18,947.19
1956	48,644.49	65.00	748.38	21.28	15,927.24
1957	84,452.90	65.00	1,299.27	21.69	28,181.40
1958	76,240.83	65.00	1,172.93	22.10	25,923.77
1959	166,796.84	65.00	2,566.10	22.52	57,779.11
1960	24,552.85	65.00	377.74	22.93	8,663.28

PAWC - Water Operations
Water Operations
330.00 Distribution Reservoirs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 65 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1961	401,183.97	65.00	6,172.06	23.36	144,158.97
1962	186,962.54	65.00	2,876.34	23.78	68,406.75
1963	15,157.25	65.00	233.19	24.21	5,645.99
1964	45,588.11	65.00	701.35	24.65	17,285.45
1965	55,626.04	65.00	855.78	25.08	21,465.92
1966	394,465.55	65.00	6,068.70	25.53	154,904.78
1967	806,984.51	65.00	12,415.13	25.97	322,433.89
1968	282,717.71	65.00	4,349.50	26.42	114,920.76
1969	84,335.85	65.00	1,297.47	26.88	34,871.03
1970	69,869.85	65.00	1,074.92	27.34	29,383.79
1971	407,403.58	65.00	6,267.74	27.80	174,239.42
1972	173,285.68	65.00	2,665.93	28.27	75,362.33
1973	3,532,689.75	65.00	54,349.02	28.74	1,562,088.84
1974	749,158.82	65.00	11,525.51	29.22	336,788.71
1975	390,034.66	65.00	6,000.53	29.71	178,247.56
1976	399,924.61	65.00	6,152.68	30.19	185,775.01
1977	199,610.20	65.00	3,070.92	30.69	94,243.87
1978	447,321.54	65.00	6,881.86	31.19	214,636.54
1979	304,051.08	65.00	4,677.70	31.69	148,259.72
1980	1,076.03	65.00	16.55	32.21	533.15
1981	54,623.64	65.00	840.36	32.72	27,500.05
1982	1,047,267.09	65.00	16,111.79	33.25	535,664.52
1983	1,394,266.63	65.00	21,450.24	33.78	724,531.87
1984	32,354.18	65.00	497.76	34.31	17,079.24
1985	1,752,002.99	65.00	26,953.87	34.86	939,506.82
1986	1,778,699.21	65.00	27,364.58	35.40	968,820.87
1987	240,248.85	65.00	3,696.13	35.96	132,918.62

PAWC - Water Operations
Water Operations
330.00 Distribution Reservoirs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 65 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1988	3,095,526.72	65.00	47,623.44	36.53	1,739,453.61
1989	5,055,328.77	65.00	77,774.22	37.09	2,885,023.65
1990	6,129,161.37	65.00	94,294.70	37.67	3,552,374.59
1991	675,140.24	65.00	10,386.76	38.26	397,370.67
1992	1,315,378.04	65.00	20,236.57	38.85	786,210.87
1993	7,639,604.37	65.00	117,532.27	39.45	4,636,716.89
1994	2,027,808.17	65.00	31,197.02	40.06	1,249,759.80
1995	1,585,876.37	65.00	24,398.08	40.68	992,411.14
1996	3,624,223.56	65.00	55,757.23	41.30	2,302,898.48
1997	2,280,357.49	65.00	35,082.39	41.93	1,471,163.04
1998	1,215,386.77	65.00	18,698.24	42.58	796,143.46
1999	5,099,721.28	65.00	78,457.18	43.23	3,391,567.13
2000	3,634,244.00	65.00	55,911.40	43.89	2,453,986.52
2001	5,032,730.61	65.00	77,426.55	44.56	3,450,228.93
2002	2,276,714.48	65.00	35,026.34	45.24	1,584,594.60
2003	2,410,479.28	65.00	37,084.26	45.93	1,703,291.30
2004	1,519,412.36	65.00	23,375.55	46.63	1,089,968.29
2005	3,825,628.33	65.00	58,855.77	47.34	2,786,181.49
2006	2,881,396.25	65.00	44,329.13	48.06	2,130,356.02
2007	1,534,816.04	65.00	23,612.53	48.79	1,152,044.14
2008	236,167.51	65.00	3,633.34	49.53	179,956.62
2009	24,836.32	65.00	382.10	50.28	19,213.03
2010	797,440.05	65.00	12,268.30	51.04	626,233.01
2011	249,853.14	65.00	3,843.89	51.82	199,196.90
2012	1,177,587.89	65.00	18,116.72	52.61	953,052.26
2013	4,260,578.06	65.00	65,547.29	53.41	3,500,680.22
2014	6,068,629.18	65.00	93,363.44	54.22	5,062,024.81

PAWC - Water Operations
Water Operations
330.00 Distribution Reservoirs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2015	376,780.65	65.00	5,796.62	55.04	319,049.54
2016	8,406,094.89	65.00	129,324.42	55.88	7,226,304.98
2017	5,265,669.74	65.00	81,010.23	56.72	4,595,273.36
2018	3,560,709.42	65.00	54,780.09	57.59	3,154,647.55
2019	3,422,777.21	65.00	52,658.06	58.46	3,078,437.03
2021	2,281,005.92	65.00	35,092.37	60.25	2,114,376.59
2022	2,653,783.47	65.00	40,827.40	61.17	2,497,435.35
2023	2,840,290.76	65.00	43,696.74	62.10	2,713,580.51
2024	6,704,284.79	65.00	103,142.75	63.05	6,503,166.10
2025	6,304,653.01	65.00	96,994.57	64.01	6,208,820.21
2026	4,815,061.04	65.00	74,077.79	64.75	4,796,737.38
Total	139,199,021.63	65.00	2,141,521.46	47.64	102,019,456.63

Composite Average Remaining Life ... *47.64 Years*

PAWC - Water Operations
Water Operations
330.10 Elevated Tanks

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1992	189,738.86	65.00	2,919.06	38.85	113,408.28
1994	0.01	65.00	0.00	40.06	0.01
2007	109,596.89	65.00	1,686.10	48.79	82,264.23
2008	452,291.74	65.00	6,958.33	49.53	344,640.51
2009	610,424.47	65.00	9,391.14	50.28	472,215.73
2010	876,241.28	65.00	13,480.62	51.04	688,115.95
2011	1.21	65.00	0.02	51.82	0.96
2012	70,427.57	65.00	1,083.50	52.61	56,998.85
2013	7,305,295.42	65.00	112,389.06	53.41	6,002,355.27
2014	402,306.06	65.00	6,189.32	54.22	335,575.50
2015	75,692.00	65.00	1,164.49	55.04	64,094.32
2017	22,485.50	65.00	345.93	56.72	19,622.77
2018	41,920.13	65.00	644.92	57.59	37,139.58
2019	3,889.76	65.00	59.84	58.46	3,498.44
2021	3,743,807.08	65.00	57,596.98	60.25	3,470,318.93
2023	73,266.92	65.00	1,127.18	62.10	69,998.36
2024	3,546,697.40	65.00	54,564.53	63.05	3,440,301.69
2026	324,619.15	65.00	4,994.14	64.75	323,383.82
Total	17,848,701.45	65.00	274,595.16	56.53	15,523,933.19

Composite Average Remaining Life ... 56.53 Years

PAWC - Water Operations
Water Operations
330.20 Ground Level Facilities

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2004	411,560.09	65.00	6,331.69	46.63	295,237.46
2007	729,975.76	65.00	11,230.39	48.79	547,925.14
2008	37,653.40	65.00	579.28	49.53	28,691.41
2009	21,769.28	65.00	334.91	50.28	16,840.41
2010	13,139.81	65.00	202.15	51.04	10,318.75
2011	261,613.14	65.00	4,024.81	51.82	208,572.63
2012	1,944,284.21	65.00	29,912.04	52.61	1,573,559.37
2013	5,126,495.63	65.00	78,869.09	53.41	4,212,156.57
2014	4,119,155.97	65.00	63,371.57	54.22	3,435,910.99
2015	141,079.99	65.00	2,170.46	55.04	119,463.42
2016	1,686,605.76	65.00	25,947.76	55.88	1,449,891.75
2017	150,532.79	65.00	2,315.89	56.72	131,367.78
2018	115,120.43	65.00	1,771.08	57.59	101,992.14
2019	33,498.57	65.00	515.36	58.46	30,128.53
2021	3,736,874.95	65.00	57,490.33	60.25	3,463,893.20
2023	129,755.90	65.00	1,996.24	62.10	123,967.27
2025	461,649.62	65.00	7,102.30	64.01	454,632.39
Total	19,120,765.30	65.00	294,165.35	55.09	16,204,549.20

Composite Average Remaining Life ... 55.09 Years

PAWC - Water Operations
Water Operations
330.30 Below Grade Facilities

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2007	173,959.09	65.00	2,676.29	48.79	130,574.96
2010	31,397.64	65.00	483.04	51.04	24,656.70
2011	100,934.51	65.00	1,552.84	51.82	80,470.64
2014	280,555.88	65.00	4,316.24	54.22	234,020.04
2016	231,860.11	65.00	3,567.08	55.88	199,318.70
Total	818,707.23	65.00	12,595.48	53.12	669,041.03

Composite Average Remaining Life ... 53.12 Years

PAWC - Water Operations
Water Operations
330.40 Clearwell

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1959	5,027.02	65.00	77.34	22.52	1,741.38
1977	63,020.50	65.00	969.55	30.69	29,754.47
1978	7,099.25	65.00	109.22	31.19	3,406.41
1986	137,509.65	65.00	2,115.53	35.40	74,898.68
1987	14,473.99	65.00	222.68	35.96	8,007.79
2012	12,757,639.44	65.00	196,271.20	52.61	10,325,086.74
2017	19,388.28	65.00	298.28	56.72	16,919.87
2018	32,046.45	65.00	493.02	57.59	28,391.89
2019	5,251.81	65.00	80.80	58.46	4,723.46
2020	24,652.20	65.00	379.26	59.35	22,509.72
2025	6,504,069.56	65.00	100,062.52	64.01	6,405,205.56
2026	100,000.02	65.00	1,538.46	64.75	99,619.47
Total	19,670,178.17	65.00	302,617.85	56.24	17,020,265.44

Composite Average Remaining Life ... 56.24 Years

PAWC - Water Operations
Water Operations
331.00 Mains and Accessories

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 90 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1901	146,492.34	90.00	1,627.69	11.80	19,211.24
1902	140,988.02	90.00	1,566.53	12.11	18,963.59
1903	244,198.60	90.00	2,713.31	12.41	33,672.98
1904	76,713.66	90.00	852.37	12.72	10,839.97
1905	408,269.96	90.00	4,536.33	13.02	59,060.39
1906	238,415.21	90.00	2,649.05	13.33	35,315.56
1907	1,436,012.16	90.00	15,955.67	13.65	217,738.75
1908	423,885.83	90.00	4,709.84	13.96	65,772.47
1909	282,213.54	90.00	3,135.70	14.29	44,799.41
1910	238,304.86	90.00	2,647.83	14.61	38,691.58
1911	126,190.35	90.00	1,402.11	14.94	20,950.60
1912	222,301.65	90.00	2,470.01	15.28	37,731.57
1913	86,645.27	90.00	962.72	15.61	15,031.77
1914	403,674.30	90.00	4,485.26	15.95	71,551.16
1915	238,727.96	90.00	2,652.53	16.30	43,234.71
1916	1,020,793.34	90.00	11,342.13	16.65	188,860.78
1917	122,337.60	90.00	1,359.30	17.01	23,119.24
1918	71,605.29	90.00	795.61	17.37	13,819.96
1919	120,783.17	90.00	1,342.03	17.74	23,804.39
1920	237,298.77	90.00	2,636.65	18.11	47,750.63
1921	233,639.90	90.00	2,596.00	18.49	47,996.50
1922	205,737.87	90.00	2,285.97	18.87	43,142.36
1923	1,573,737.97	90.00	17,485.95	19.26	336,812.12
1924	857,961.27	90.00	9,532.89	19.66	187,394.58
1925	655,372.06	90.00	7,281.90	20.06	146,071.42
1926	1,295,579.42	90.00	14,395.31	20.47	294,634.97
1927	226,063.02	90.00	2,511.81	20.88	52,450.32

PAWC - Water Operations
Water Operations
331.00 Mains and Accessories

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 90 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1928	350,330.35	90.00	3,892.55	21.30	82,918.35
1929	184,660.32	90.00	2,051.78	21.73	44,581.73
1930	149,589.41	90.00	1,662.10	22.16	36,834.19
1931	220,577.25	90.00	2,450.85	22.60	55,390.41
1932	66,251.43	90.00	736.13	23.05	16,966.08
1933	37,969.60	90.00	421.88	23.50	9,914.42
1934	77,852.53	90.00	865.03	23.96	20,725.53
1935	131,827.58	90.00	1,464.75	24.42	35,776.48
1936	102,874.58	90.00	1,143.05	24.90	28,458.62
1937	163,209.53	90.00	1,813.44	25.38	46,017.37
1938	76,874.08	90.00	854.16	25.86	22,089.30
1939	158,408.91	90.00	1,760.10	26.35	46,383.43
1940	121,894.78	90.00	1,354.38	26.85	36,366.71
1941	114,365.35	90.00	1,270.72	27.36	34,765.75
1942	90,181.02	90.00	1,002.01	27.87	27,927.04
1943	77,892.08	90.00	865.47	28.39	24,570.22
1944	41,743.13	90.00	463.81	28.91	13,410.95
1945	227,049.26	90.00	2,522.77	29.45	74,285.86
1946	313,073.92	90.00	3,478.59	29.98	104,302.91
1947	276,738.35	90.00	3,074.87	30.53	93,871.61
1948	275,910.87	90.00	3,065.67	31.08	95,279.71
1949	117,603.94	90.00	1,306.71	31.64	41,340.07
1950	135,382.38	90.00	1,504.25	32.20	48,442.76
1951	429,825.88	90.00	4,775.84	32.77	156,525.88
1952	398,044.88	90.00	4,422.71	33.35	147,503.49
1953	928,760.30	90.00	10,319.54	33.93	350,187.02
1954	1,261,111.13	90.00	14,012.33	34.52	483,754.84

PAWC - Water Operations
Water Operations
331.00 Mains and Accessories

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *90* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1955	2,731,836.82	90.00	30,353.70	35.12	1,065,986.01
1956	1,455,037.23	90.00	16,167.06	35.72	577,490.28
1957	2,143,974.69	90.00	23,821.91	36.33	865,392.24
1958	1,845,102.55	90.00	20,501.11	36.94	757,330.71
1959	2,107,208.23	90.00	23,413.39	37.56	879,500.86
1960	2,815,128.14	90.00	31,279.16	38.19	1,194,545.89
1961	3,587,197.78	90.00	39,857.70	38.82	1,547,334.16
1962	1,391,848.71	90.00	15,464.96	39.46	610,229.59
1963	1,995,731.87	90.00	22,174.77	40.10	889,250.94
1964	4,791,111.30	90.00	53,234.49	40.75	2,169,340.73
1965	4,608,109.28	90.00	51,201.14	41.40	2,119,982.51
1966	3,938,166.77	90.00	43,757.35	42.06	1,840,645.96
1967	5,478,857.71	90.00	60,876.11	42.73	2,601,247.76
1968	5,426,362.76	90.00	60,292.83	43.40	2,616,985.01
1969	4,848,715.81	90.00	53,874.54	44.08	2,374,862.73
1970	3,729,731.55	90.00	41,441.40	44.76	1,855,059.22
1971	5,323,237.67	90.00	59,147.00	45.45	2,688,275.73
1972	8,130,015.20	90.00	90,333.37	46.14	4,168,276.80
1973	8,161,557.55	90.00	90,683.84	46.84	4,247,715.76
1974	4,855,392.43	90.00	53,948.73	47.54	2,564,920.77
1975	5,888,136.13	90.00	65,423.64	48.25	3,156,788.07
1976	9,758,845.41	90.00	108,431.46	48.96	5,309,265.66
1977	6,096,757.75	90.00	67,741.66	49.69	3,365,766.02
1978	9,787,346.31	90.00	108,748.14	50.41	5,481,830.04
1979	8,765,687.00	90.00	97,396.38	51.14	4,980,508.74
1980	12,174,338.41	90.00	135,270.23	51.87	7,016,365.50
1981	8,372,654.13	90.00	93,029.36	52.61	4,893,970.21

PAWC - Water Operations
Water Operations
331.00 Mains and Accessories

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *90* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1982	6,125,782.76	90.00	68,064.16	53.35	3,631,146.11
1983	9,915,646.92	90.00	110,173.70	54.10	5,959,918.01
1984	14,758,228.08	90.00	163,980.08	54.85	8,993,815.22
1985	18,526,515.29	90.00	205,849.88	55.60	11,445,846.85
1986	24,388,081.59	90.00	270,978.30	56.37	15,274,034.86
1987	25,816,601.01	90.00	286,850.71	57.13	16,388,236.02
1988	34,998,171.42	90.00	388,868.02	57.90	22,515,957.25
1989	32,275,046.21	90.00	358,611.11	58.68	21,041,617.04
1990	33,811,053.89	90.00	375,677.84	59.45	22,335,409.56
1991	21,820,975.38	90.00	242,454.94	60.24	14,604,558.12
1992	25,574,773.72	90.00	284,163.75	61.02	17,340,504.71
1993	36,120,497.19	90.00	401,338.28	61.81	24,808,265.19
1994	39,133,404.66	90.00	434,814.99	62.61	27,223,281.51
1995	48,903,773.64	90.00	543,374.49	63.41	34,455,745.75
1996	40,806,015.34	90.00	453,399.52	64.21	29,114,722.41
1997	35,974,579.41	90.00	399,716.98	65.02	25,990,337.34
1998	89,512,638.38	90.00	994,583.45	65.83	65,476,757.34
1999	54,275,176.35	90.00	603,056.65	66.65	40,192,964.48
2000	57,080,634.60	90.00	634,228.37	67.47	42,790,104.86
2001	63,468,494.62	90.00	705,204.49	68.29	48,159,134.53
2002	65,424,561.79	90.00	726,938.54	69.12	50,244,421.48
2003	23,896,042.58	90.00	265,511.20	69.95	18,572,078.03
2004	64,061,827.71	90.00	711,797.07	70.78	50,384,540.07
2005	59,721,854.63	90.00	663,575.21	71.62	47,527,417.09
2006	14,320,619.73	90.00	159,117.77	72.47	11,530,487.78
2007	76,109,373.77	90.00	845,658.50	73.31	61,995,678.09
2008	95,065,324.56	90.00	1,056,279.87	74.16	78,333,132.90

PAWC - Water Operations
Water Operations
331.00 Mains and Accessories

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: ***90*** ***Survivor Curve:*** ***R2***

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2009	89,394,832.44	90.00	993,274.50	75.01	74,507,330.44
2010	93,310,059.01	90.00	1,036,776.95	75.87	78,657,822.52
2011	114,893,685.61	90.00	1,276,594.68	76.73	97,949,050.07
2012	106,797,518.38	90.00	1,186,637.40	77.59	92,070,413.48
2013	142,440,728.11	90.00	1,582,672.49	78.46	124,172,097.86
2014	131,300,030.12	90.00	1,458,887.14	79.33	115,728,648.05
2015	164,708,614.64	90.00	1,830,093.10	80.20	146,772,179.65
2016	173,461,216.91	90.00	1,927,344.10	81.08	156,259,600.70
2017	117,123,581.31	90.00	1,301,371.26	81.95	106,652,569.99
2018	152,196,389.02	90.00	1,691,068.57	82.84	140,081,318.45
2019	163,202,140.67	90.00	1,813,354.53	83.72	151,815,806.20
2020	178,488,444.29	90.00	1,983,202.10	84.61	167,796,722.07
2021	127,404,054.03	90.00	1,415,598.58	85.50	121,033,561.06
2022	194,529,734.77	90.00	2,161,438.41	86.40	186,738,586.21
2023	252,192,910.62	90.00	2,802,139.44	87.29	244,605,798.01
2024	232,360,661.10	90.00	2,581,781.43	88.19	227,693,284.85
2025	270,639,537.82	90.00	3,007,101.68	89.09	267,917,331.03
2026	74,620,907.22	90.00	829,120.01	89.77	74,433,264.15
Total	4,049,022,776.72	90.00	44,989,077.63	77.07	3,467,371,378.93

Composite Average Remaining Life ... ***77.07 Years***

PAWC - Water Operations
Water Operations
333.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1948	26,099.86	65.00	401.54	10.65	4,277.01
1949	82,894.70	65.00	1,275.30	10.96	13,973.34
1950	133,600.19	65.00	2,055.38	11.27	23,171.84
1951	210,589.34	65.00	3,239.83	11.60	37,580.35
1952	289,307.37	65.00	4,450.88	11.94	53,132.54
1953	261,200.39	65.00	4,018.46	12.29	49,371.11
1954	273,928.54	65.00	4,214.28	12.65	53,298.89
1955	420,624.13	65.00	6,471.13	13.02	84,256.45
1956	522,828.92	65.00	8,043.51	13.41	107,831.29
1957	512,003.86	65.00	7,876.97	13.81	108,742.81
1958	613,006.44	65.00	9,430.85	14.22	134,072.06
1959	765,810.46	65.00	11,781.68	14.64	172,512.02
1960	787,382.67	65.00	12,113.56	15.08	182,669.03
1961	723,023.22	65.00	11,123.42	15.53	172,781.73
1962	779,000.70	65.00	11,984.61	16.00	191,745.88
1963	646,291.37	65.00	9,942.93	16.48	163,835.09
1964	589,624.55	65.00	9,071.13	16.97	153,944.43
1965	884,596.74	65.00	13,609.16	17.48	237,823.67
1966	887,622.35	65.00	13,655.71	18.00	245,736.18
1967	932,874.44	65.00	14,351.89	18.53	265,872.20
1968	1,073,623.73	65.00	16,517.26	19.07	315,000.19
1969	1,169,415.60	65.00	17,990.98	19.63	353,089.22
1970	1,274,414.42	65.00	19,606.34	20.20	395,980.58
1971	1,487,205.00	65.00	22,880.04	20.78	475,340.40
1972	1,607,414.45	65.00	24,729.41	21.37	528,462.83
1973	2,124,372.82	65.00	32,682.60	21.97	718,081.01
1974	1,227,715.23	65.00	18,887.90	22.59	426,648.99

PAWC - Water Operations
Water Operations
333.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1975	740,667.20	65.00	11,394.86	23.21	264,531.29
1976	962,345.47	65.00	14,805.29	23.85	353,108.34
1977	1,350,995.76	65.00	20,784.52	24.50	509,169.54
1978	1,862,311.90	65.00	28,650.90	25.15	720,646.87
1979	2,852,756.67	65.00	43,888.49	25.82	1,133,196.00
1980	2,600,405.74	65.00	40,006.18	26.49	1,059,921.55
1981	2,520,157.69	65.00	38,771.59	27.18	1,053,810.53
1982	2,501,912.48	65.00	38,490.90	27.87	1,072,818.59
1983	2,823,987.53	65.00	43,445.89	28.58	1,241,505.89
1984	3,336,157.16	65.00	51,325.41	29.29	1,503,070.40
1985	3,657,834.14	65.00	56,274.28	30.01	1,688,570.54
1986	4,441,175.30	65.00	68,325.66	30.73	2,099,763.45
1987	6,264,374.66	65.00	96,374.84	31.47	3,032,821.16
1988	6,929,986.62	65.00	106,615.00	32.21	3,434,392.55
1989	7,390,185.79	65.00	113,694.98	32.96	3,747,767.79
1990	8,302,406.55	65.00	127,729.12	33.72	4,307,386.91
1991	6,102,894.60	65.00	93,890.53	34.49	3,238,097.98
1992	6,403,437.24	65.00	98,514.26	35.26	3,473,848.09
1993	9,519,022.33	65.00	146,446.25	36.04	5,278,209.22
1994	7,668,986.85	65.00	117,984.22	36.83	4,345,444.39
1995	10,883,876.84	65.00	167,443.98	37.62	6,299,941.97
1996	11,157,504.04	65.00	171,653.62	38.43	6,596,107.46
1997	10,568,496.93	65.00	162,591.99	39.23	6,379,090.57
1998	45,858,664.45	65.00	705,516.75	40.05	28,255,808.25
1999	13,842,159.30	65.00	212,955.94	40.87	8,703,432.45
2000	13,866,141.67	65.00	213,324.90	41.70	8,895,356.06
2001	16,260,793.49	65.00	250,165.64	42.53	10,640,278.88

PAWC - Water Operations
Water Operations
333.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2002	29,767,242.30	65.00	457,956.81	43.37	19,862,630.51
2003	3,369,070.13	65.00	51,831.76	44.22	2,291,935.72
2004	2,325,009.35	65.00	35,769.32	45.07	1,612,115.19
2005	18,814,392.09	65.00	289,451.71	45.93	13,293,902.84
2006	97,915.42	65.00	1,506.39	46.79	70,484.02
2007	11,848,832.41	65.00	182,289.43	47.66	8,687,773.37
2008	24,791,752.19	65.00	381,410.94	48.53	18,510,657.56
2009	22,181,935.01	65.00	341,259.97	49.41	16,862,237.22
2010	17,745,141.30	65.00	273,001.72	50.29	13,730,515.49
2011	18,483,939.81	65.00	284,367.83	51.18	14,555,129.48
2012	21,524,518.70	65.00	331,145.89	52.08	17,244,949.90
2013	22,311,825.02	65.00	343,258.28	52.98	18,184,264.13
2014	20,483,985.31	65.00	315,137.71	53.88	16,979,036.55
2015	21,373,599.65	65.00	328,824.06	54.78	18,014,434.21
2016	27,759,817.90	65.00	427,073.41	55.70	23,786,098.53
2017	25,462,015.22	65.00	391,722.66	56.61	22,175,380.21
2018	23,785,843.88	65.00	365,935.45	57.53	21,051,880.97
2019	26,250,430.36	65.00	403,852.11	58.45	23,605,474.05
2020	33,394,787.53	65.00	513,765.11	59.38	30,505,906.42
2021	30,271,261.12	65.00	465,710.94	60.31	28,085,147.93
2022	40,780,955.41	65.00	627,398.27	61.24	38,421,309.60
2023	50,620,850.52	65.00	778,781.02	62.17	48,420,216.86
2024	59,433,982.42	65.00	914,367.44	63.11	57,709,164.23
2025	61,604,875.25	65.00	947,765.74	64.05	60,709,117.65
2026	32,306,701.42	65.00	497,025.35	64.76	32,189,288.59

PAWC - Water Operations
Water Operations
333.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	877,766,789.61	65.00	13,504,082.07	51.21	691,556,379.08

Composite Average Remaining Life ... 51.21 Years

PAWC - Water Operations
Water Operations
334.00 Meters and Installations

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *L1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1960	176.00	0.00	0.00	0.00	0.00
1961	263.00	0.00	0.00	0.00	0.00
1962	370.00	0.00	0.00	0.00	0.00
1963	200.00	0.00	0.00	0.00	0.00
1964	862.00	20.00	43.10	0.50	21.55
1965	791.00	20.00	39.55	0.68	26.96
1966	433.00	20.00	21.65	0.82	17.69
1967	240.00	20.00	12.00	0.96	11.54
1968	729.00	20.00	36.45	1.11	40.56
1969	546.00	20.00	27.30	1.27	34.58
1970	1,128.00	20.00	56.40	1.42	80.28
1971	440.00	20.00	22.00	1.58	34.75
1972	827.00	20.00	41.35	1.73	71.68
1973	521.00	20.00	26.05	1.88	49.07
1974	179.00	20.00	8.95	2.03	18.17
1975	957.00	20.00	47.85	2.17	104.00
1976	230.00	20.00	11.50	2.32	26.64
1977	250.00	20.00	12.50	2.46	30.75
1978	403.00	20.00	20.15	2.61	52.52
1979	463.00	20.00	23.15	2.76	63.79
1980	258.00	20.00	12.90	2.91	37.52
1981	314.00	20.00	15.70	3.07	48.14
1986	1,836.00	20.00	91.80	3.92	360.29
1987	191,532.30	20.00	9,576.24	4.11	39,373.05
1988	407.00	20.00	20.35	4.30	87.57
1989	9,450.87	20.00	472.53	4.50	2,126.44
1990	34,794.48	20.00	1,739.66	4.70	8,180.52

PAWC - Water Operations
Water Operations
334.00 Meters and Installations

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *L1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1991	655,892.00	20.00	32,793.33	4.91	161,015.22
1992	206,344.07	20.00	10,316.80	5.12	52,854.63
1993	225,675.35	20.00	11,283.33	5.34	60,275.21
1994	190,692.69	20.00	9,534.26	5.57	53,072.42
1995	247,931.83	20.00	12,396.11	5.80	71,856.83
1996	65,879.75	20.00	3,293.86	6.03	19,870.34
1997	1,046,919.80	20.00	52,343.96	6.27	328,389.07
1998	9,711,503.34	20.00	485,556.33	6.52	3,165,694.36
1999	1,348,608.59	20.00	67,427.81	6.77	456,494.48
2000	1,127,769.09	20.00	56,386.27	7.02	396,067.27
2001	2,957,810.64	20.00	147,884.80	7.28	1,076,771.16
2002	1,452,543.00	20.00	72,624.33	7.54	547,610.99
2003	65,985.65	20.00	3,299.15	7.80	25,737.20
2004	33,628.82	20.00	1,681.38	8.06	13,557.60
2005	2,243,595.00	20.00	112,175.40	8.33	934,116.95
2006	49,522.97	20.00	2,476.05	8.59	21,278.46
2007	3,004,862.58	20.00	150,237.30	8.86	1,331,745.43
2008	1,418,029.81	20.00	70,898.74	9.14	648,122.98
2009	3,646,458.06	20.00	182,315.83	9.43	1,719,033.26
2010	7,245,551.05	20.00	362,263.50	9.73	3,525,042.13
2011	12,408,538.62	20.00	620,402.86	10.05	6,236,160.28
2012	10,899,356.36	20.00	544,946.68	10.40	5,666,405.36
2013	8,716,460.33	20.00	435,806.11	10.78	4,696,006.34
2014	6,264,575.58	20.00	313,216.63	11.19	3,504,781.99
2015	11,904,076.54	20.00	595,180.74	11.65	6,931,896.06
2016	14,267,470.69	20.00	713,345.86	12.15	8,670,700.77
2017	15,084,360.63	20.00	754,188.77	12.72	9,593,627.66

PAWC - Water Operations
Water Operations
334.00 Meters and Installations

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *L1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2018	12,373,141.93	20.00	618,633.10	13.34	8,255,460.28
2019	16,599,187.07	20.00	829,927.16	14.02	11,638,876.25
2020	9,582,526.53	20.00	479,107.74	14.75	7,067,345.50
2021	6,519,759.83	20.00	325,975.35	15.52	5,059,904.03
2022	20,197,513.90	20.00	1,009,836.52	16.34	16,499,381.74
2023	35,757,111.50	20.00	1,787,786.22	17.20	30,748,507.52
2024	39,473,317.51	20.00	1,973,589.31	18.10	35,723,554.90
2025	31,492,182.75	20.00	1,574,548.06	19.04	29,975,606.85
2026	17,950,937.98	20.00	897,512.08	19.76	17,733,207.89
Total	306,684,322.49	18.73	15,333,570.85	14.52	222,660,927.47

Composite Average Remaining Life ... 14.52 Years

PAWC - Water Operations
Water Operations
335.00 Fire Hydrants

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 60 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1931	405.67	60.00	6.76	4.46	30.16
1932	825.75	60.00	13.76	4.76	65.47
1933	854.24	60.00	14.24	5.04	71.77
1934	1,240.21	60.00	20.67	5.33	110.14
1935	2,469.35	60.00	41.16	5.62	231.48
1936	3,530.12	60.00	58.84	5.91	347.74
1937	4,628.28	60.00	77.14	6.20	478.23
1938	4,140.48	60.00	69.01	6.50	448.32
1939	6,475.67	60.00	107.93	6.79	732.33
1940	3,767.63	60.00	62.79	7.08	444.44
1941	4,087.05	60.00	68.12	7.38	502.55
1942	1,402.35	60.00	23.37	7.67	179.31
1943	1,465.22	60.00	24.42	7.97	194.65
1944	1,417.53	60.00	23.63	8.28	195.56
1945	610.29	60.00	10.17	8.58	87.29
1946	2,087.25	60.00	34.79	8.89	309.31
1947	8,700.00	60.00	145.00	9.21	1,335.36
1948	6,800.82	60.00	113.35	9.53	1,079.95
1949	19,787.04	60.00	329.78	9.85	3,249.39
1950	4,402.72	60.00	73.38	10.19	747.51
1951	24,809.97	60.00	413.50	10.52	4,351.73
1952	20,657.59	60.00	344.29	10.87	3,742.18
1953	15,578.90	60.00	259.65	11.22	2,914.05
1954	23,950.41	60.00	399.17	11.58	4,623.50
1955	20,160.21	60.00	336.00	11.95	4,015.54
1956	33,261.63	60.00	554.36	12.33	6,834.23
1957	47,545.56	60.00	792.42	12.71	10,074.22

PAWC - Water Operations
Water Operations
335.00 Fire Hydrants

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *60* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1958	57,207.94	60.00	953.46	13.11	12,497.34
1959	73,438.17	60.00	1,223.97	13.51	16,536.38
1960	74,151.01	60.00	1,235.85	13.92	17,206.71
1961	71,404.44	60.00	1,190.07	14.35	17,071.59
1962	53,350.36	60.00	889.17	14.78	13,138.33
1963	79,973.85	60.00	1,332.89	15.22	20,283.20
1964	66,731.15	60.00	1,112.18	15.67	17,426.28
1965	99,354.34	60.00	1,655.90	16.13	26,707.03
1966	101,788.04	60.00	1,696.46	16.60	28,160.62
1967	127,584.09	60.00	2,126.40	17.08	36,319.90
1968	125,450.53	60.00	2,090.84	17.57	36,735.74
1969	122,534.84	60.00	2,042.24	18.07	36,905.56
1970	118,513.20	60.00	1,975.21	18.58	36,703.24
1971	156,766.72	60.00	2,612.77	19.10	49,906.27
1972	165,627.05	60.00	2,760.44	19.63	54,192.92
1973	221,110.81	60.00	3,685.17	20.17	74,338.73
1974	299,801.76	60.00	4,996.68	20.72	103,534.85
1975	297,399.06	60.00	4,956.64	21.28	105,482.75
1976	198,790.83	60.00	3,313.17	21.85	72,394.79
1977	290,595.14	60.00	4,843.24	22.43	108,622.38
1978	446,737.80	60.00	7,445.61	23.02	171,372.31
1979	517,966.58	60.00	8,632.75	23.61	203,856.08
1980	446,857.51	60.00	7,447.60	24.22	180,374.64
1981	269,007.16	60.00	4,483.44	24.84	111,349.16
1982	417,784.27	60.00	6,963.05	25.46	177,283.22
1983	548,776.19	60.00	9,146.24	26.09	238,646.59
1984	545,220.04	60.00	9,086.98	26.74	242,942.83

PAWC - Water Operations
Water Operations
335.00 Fire Hydrants

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 60 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1985	581,061.43	60.00	9,684.33	27.39	265,217.92
1986	751,487.79	60.00	12,524.76	28.04	351,241.90
1987	822,166.94	60.00	13,702.74	28.71	393,434.56
1988	875,708.33	60.00	14,595.10	29.39	428,921.76
1989	1,092,302.01	60.00	18,204.98	30.07	547,427.57
1990	1,154,500.66	60.00	19,241.63	30.76	591,923.79
1991	967,441.67	60.00	16,123.98	31.46	507,299.88
1992	1,327,596.57	60.00	22,126.55	32.17	711,768.68
1993	1,169,669.05	60.00	19,494.43	32.88	641,046.74
1994	1,545,379.16	60.00	25,756.25	33.61	865,565.43
1995	1,686,766.90	60.00	28,112.70	34.33	965,223.62
1996	1,597,262.34	60.00	26,620.97	35.07	933,637.85
1997	1,727,126.49	60.00	28,785.36	35.82	1,030,964.81
1998	1,601,149.56	60.00	26,685.75	36.56	975,764.12
1999	2,058,587.32	60.00	34,309.70	37.32	1,280,552.34
2000	1,241,843.98	60.00	20,697.34	38.09	788,320.42
2001	1,702,271.55	60.00	28,371.12	38.86	1,102,437.74
2002	1,589,295.72	60.00	26,488.19	39.64	1,049,886.61
2003	2,125,873.20	60.00	35,431.12	40.42	1,432,137.21
2004	2,187,383.85	60.00	36,456.30	41.21	1,502,344.72
2005	213,602.75	60.00	3,560.04	42.01	149,545.48
2006	5,645,198.22	60.00	94,086.38	42.81	4,027,811.81
2007	3,171,907.74	60.00	52,864.98	43.62	2,305,831.31
2008	4,241,162.15	60.00	70,685.84	44.43	3,140,762.64
2009	4,614,659.61	60.00	76,910.78	45.25	3,480,481.88
2010	4,214,026.56	60.00	70,233.58	46.08	3,236,274.61
2011	3,514,009.95	60.00	58,566.67	46.91	2,747,436.51

PAWC - Water Operations
Water Operations
335.00 Fire Hydrants

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *60* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2012	4,611,078.54	60.00	76,851.10	47.75	3,669,562.10
2013	5,204,911.49	60.00	86,748.29	48.59	4,215,180.44
2014	4,622,085.19	60.00	77,034.54	49.44	3,808,571.10
2015	7,682,426.24	60.00	128,040.09	50.29	6,439,590.99
2016	7,704,485.68	60.00	128,407.74	51.15	6,568,228.09
2017	6,018,700.46	60.00	100,311.40	52.02	5,217,759.61
2018	5,464,259.48	60.00	91,070.74	52.88	4,816,235.21
2019	7,194,900.97	60.00	119,914.69	53.76	6,446,288.11
2020	7,542,981.42	60.00	125,716.01	54.64	6,868,633.14
2021	7,700,209.78	60.00	128,336.48	55.52	7,125,151.01
2022	10,995,776.88	60.00	183,262.45	56.41	10,337,116.61
2023	13,886,858.96	60.00	231,447.02	57.30	13,261,575.23
2024	13,766,954.10	60.00	229,448.61	58.20	13,352,781.41
2025	9,733,967.06	60.00	162,232.34	59.09	9,587,119.81
2026	3,072,645.27	60.00	51,210.61	59.77	3,061,054.81
Total	174,880,667.84	60.00	2,914,669.84	48.89	142,485,495.40

Composite Average Remaining Life ... 48.89 Years

PAWC - Water Operations
Water Operations
341.00 Transportation - Not Classified

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *10* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1986	349.00	0.00	0.00	0.00	0.00
2020	2,238.67	10.00	223.86	5.16	1,154.57
2025	36,010.43	10.00	3,601.00	9.01	32,446.59
Total	38,598.10	6.67	3,824.86	8.78	33,601.16

Composite Average Remaining Life ... 8.78 Years

PAWC - Water Operations
Water Operations
341.10 Transportation - Light Trucks

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *10* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2011	13,092.98	10.00	1,309.28	2.68	3,509.20
2012	1,049,987.99	10.00	104,997.53	2.93	307,232.70
2013	4,238,097.15	10.00	423,804.59	3.18	1,346,110.21
2014	32,987.33	10.00	3,298.69	3.43	11,298.98
2015	726,693.98	10.00	72,668.52	3.67	266,612.29
2016	1,221,980.63	10.00	122,196.58	3.91	477,511.56
2017	26,189.81	10.00	2,618.95	4.15	10,872.17
2018	2,049,077.18	10.00	204,905.24	4.42	905,648.22
2019	9,561,056.57	10.00	956,094.09	4.74	4,534,806.10
2020	8,458,354.68	10.00	845,825.24	5.16	4,362,297.59
2021	10,795,435.98	10.00	1,079,530.54	5.70	6,152,417.60
2022	9,810,284.80	10.00	981,016.61	6.39	6,265,635.93
2023	16,577,392.29	10.00	1,657,719.18	7.19	11,922,813.39
2024	10,309,332.00	10.00	1,030,920.73	8.07	8,318,233.84
2025	6,190,555.50	10.00	619,048.06	9.01	5,577,895.14
2026	968,334.00	10.00	96,832.23	9.75	944,135.89
Total	82,028,852.87	10.00	8,202,786.06	6.27	51,407,030.82

Composite Average Remaining Life ... 6.27 Years

PAWC - Water Operations
Water Operations
341.20 Transportation - Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *10* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2000	58,209.00	10.00	5,820.83	0.60	3,473.33
2011	4,000.00	10.00	400.00	2.68	1,072.09
2012	90,370.79	10.00	9,036.97	2.93	26,443.03
2013	2,819,782.74	10.00	281,974.86	3.18	895,623.25
2014	411,274.47	10.00	41,126.95	3.43	140,871.74
2016	2,478,954.18	10.00	247,892.42	3.91	968,697.26
2017	2,326,634.81	10.00	232,660.67	4.15	965,855.59
2018	5,865,427.39	10.00	586,535.64	4.42	2,592,393.25
2019	8,314.30	10.00	831.42	4.74	3,943.47
2020	811,487.16	10.00	81,147.73	5.16	418,515.02
2021	229,580.55	10.00	22,957.78	5.70	130,840.05
2022	172,600.00	10.00	17,259.79	6.39	110,236.22
Total	15,276,635.39	10.00	1,527,645.06	4.10	6,257,964.31

Composite Average Remaining Life ... 4.10 Years

PAWC - Water Operations
Water Operations
341.40 Transportation - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *10* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1961	374.92	0.00	0.00	0.00	0.00
1977	403.11	0.00	0.00	0.00	0.00
1978	265.00	0.00	0.00	0.00	0.00
1997	5,832.00	0.00	0.00	0.00	0.00
1998	8,060.31	0.00	0.00	0.00	0.00
1999	3,236.47	10.00	323.64	0.51	164.13
2006	4,626.70	10.00	462.66	1.59	736.73
2007	18,169.65	10.00	1,816.94	1.79	3,254.11
2008	97,342.34	10.00	9,734.12	2.00	19,452.56
2009	25,526.94	10.00	2,552.66	2.22	5,655.20
2010	50,483.13	10.00	5,048.25	2.44	12,331.56
2011	75,022.83	10.00	7,502.19	2.68	20,107.75
2012	320,046.56	10.00	32,004.27	2.93	93,647.52
2013	836,648.69	10.00	83,663.86	3.18	265,737.50
2014	718,980.22	10.00	71,897.15	3.43	246,268.61
2015	178,997.07	10.00	17,899.49	3.67	65,671.14
2016	954,565.45	10.00	95,455.39	3.91	373,014.13
2017	120,461.68	10.00	12,046.02	4.15	50,007.24
2018	2,510,965.54	10.00	251,093.52	4.42	1,109,792.97
2019	787,130.82	10.00	78,712.13	4.74	373,335.90
2020	473,035.57	10.00	47,302.98	5.16	243,962.57
2021	107,145.87	10.00	10,714.46	5.70	61,063.41
2022	47,744.96	10.00	4,774.44	6.39	30,493.77
2023	129,695.53	10.00	12,969.40	7.19	93,279.79
2024	211,053.00	10.00	21,105.04	8.07	170,291.17

PAWC - Water Operations
Water Operations
341.40 Transportation - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *10* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	7,685,814.36	8.00	767,078.62	4.22	3,238,267.76

Composite Average Remaining Life ... *4.22* *Years*

PAWC - Water Operations
Water Operations
345.00 Power Operated Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 21 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1951	29.64	0.00	0.00	0.00	0.00
1967	1,931.23	0.00	0.00	0.00	0.00
1968	1,032.10	0.00	0.00	0.00	0.00
1969	817.92	0.00	0.00	0.00	0.00
1970	6,734.16	0.00	0.00	0.00	0.00
1972	6,321.41	0.00	0.00	0.00	0.00
1975	281.75	0.00	0.00	0.00	0.00
1977	596.25	0.00	0.00	0.00	0.00
1978	1,790.00	0.00	0.00	0.00	0.00
1980	7,445.82	0.00	0.00	0.00	0.00
1982	2,452.73	0.00	0.00	0.00	0.00
1984	1,722.07	0.00	0.00	0.00	0.00
1985	16,792.81	21.00	799.65	0.50	399.83
1986	14,013.50	21.00	667.30	0.78	523.26
1987	4,748.59	21.00	226.12	1.11	250.11
1988	10,221.10	21.00	486.71	1.43	696.24
1989	13,115.87	21.00	624.56	1.76	1,098.40
1990	9,498.15	21.00	452.29	2.09	944.61
1991	12,096.57	21.00	576.02	2.42	1,394.50
1992	18,034.45	21.00	858.78	2.75	2,364.16
1993	77,817.09	21.00	3,705.54	3.09	11,443.02
1994	142,750.50	21.00	6,797.58	3.43	23,293.43
1995	148,235.10	21.00	7,058.75	3.77	26,612.22
1996	79,553.28	21.00	3,788.22	4.12	15,594.80
1997	41,095.55	21.00	1,956.91	4.47	8,744.78
1998	97,830.04	21.00	4,658.53	4.83	22,485.02
1999	255,047.45	21.00	12,145.01	5.19	63,051.70

PAWC - Water Operations
Water Operations
345.00 Power Operated Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 21 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2001	45,944.17	21.00	2,187.80	5.94	13,000.07
2002	104,174.99	21.00	4,960.67	6.33	31,400.40
2003	170,236.10	21.00	8,106.41	6.73	54,532.36
2004	19,131.90	21.00	911.03	7.13	6,499.29
2005	33,181.89	21.00	1,580.08	7.55	11,932.30
2006	13,570.69	21.00	646.22	7.98	5,157.58
2007	10,129.80	21.00	482.37	8.42	4,063.08
2008	70,816.03	21.00	3,372.16	8.88	29,940.27
2009	85,341.82	21.00	4,063.86	9.35	37,992.57
2010	16,615.93	21.00	791.23	9.83	7,781.59
2011	34,410.00	21.00	1,638.56	10.34	16,938.84
2012	21,347.57	21.00	1,016.54	10.86	11,037.96
2013	21,465.79	21.00	1,022.17	11.40	11,651.80
2014	100,707.30	21.00	4,795.54	11.96	57,358.58
2015	52,293.85	21.00	2,490.16	12.55	31,239.29
2016	126,868.88	21.00	6,041.32	13.15	79,461.60
2017	26,612.95	21.00	1,267.27	13.79	17,472.83
2018	292,687.82	21.00	13,937.39	14.45	201,398.82
2019	13,003.54	21.00	619.21	15.14	9,376.35
2022	53,275.45	21.00	2,536.90	17.42	44,185.48
2024	2,433.40	21.00	115.88	19.12	2,215.47
2025	805,604.26	21.00	38,361.76	20.03	768,570.61
Total	3,091,859.26	15.86	145,746.48	11.20	1,632,103.22

Composite Average Remaining Life ... 11.20 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.20 Structures - Collection

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *45* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2007	5,653.25	45.00	125.63	27.18	3,414.10
2008	110,121.36	45.00	2,447.14	28.05	68,635.88
2009	134,578.42	45.00	2,990.63	28.93	86,512.89
2011	8,524.47	45.00	189.43	30.72	5,818.99
2013	100,540.83	45.00	2,234.24	32.54	72,705.11
2014	14,675.64	45.00	326.13	33.46	10,913.69
2015	30,444.53	45.00	676.54	34.40	23,270.72
2016	36,457.61	45.00	810.17	35.33	28,626.76
2017	196,649.81	45.00	4,369.99	36.28	158,537.41
2018	175,113.71	45.00	3,891.41	37.23	144,873.26
2019	265,156.75	45.00	5,892.37	38.18	224,999.23
2020	432,041.74	45.00	9,600.92	39.15	375,844.31
2021	570,195.07	45.00	12,671.00	40.11	508,267.16
2022	3,385,828.96	45.00	75,240.61	41.08	3,091,103.03
2023	2,427,887.20	45.00	53,953.02	42.06	2,269,106.93
2024	3,347,373.56	45.00	74,386.04	43.04	3,201,219.65
2025	904,535.79	45.00	20,100.79	44.02	884,760.45
2026	128,300.57	45.00	2,851.12	44.75	127,598.02
Total	12,274,079.27	45.00	272,757.19	41.38	11,286,207.60

Composite Average Remaining Life ... 41.38 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.30 Structures - SPP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1935	18,861.14	55.00	342.93	7.09	2,430.68
1958	63,683.83	55.00	1,157.89	16.26	18,825.28
1976	25,970.39	55.00	472.19	24.14	11,398.30
1978	11,146.44	55.00	202.66	25.07	5,080.45
1980	93,957.85	55.00	1,708.32	26.01	44,434.24
1982	12,204.98	55.00	221.91	26.97	5,984.10
1983	86,589.73	55.00	1,574.36	27.45	43,216.04
1984	22,251.97	55.00	404.58	27.94	11,302.83
1985	104,674.02	55.00	1,903.16	28.43	54,102.45
1986	109,744.95	55.00	1,995.36	28.92	57,711.52
1987	29,681.60	55.00	539.67	29.42	15,878.10
1988	220,522.99	55.00	4,009.51	29.93	119,987.24
1989	240,185.48	55.00	4,367.01	30.43	132,903.75
1990	195,083.34	55.00	3,546.97	30.95	109,764.64
1991	285,470.50	55.00	5,190.37	31.46	163,302.41
1992	76,045.29	55.00	1,382.64	31.98	44,223.51
1993	2,160,497.80	55.00	39,281.75	32.51	1,277,130.90
1994	40,624.78	55.00	738.63	33.04	24,407.72
1996	24,175.73	55.00	439.56	34.12	14,999.82
1997	207,995.69	55.00	3,781.74	34.67	131,129.07
1998	429,870.49	55.00	7,815.82	35.23	275,350.23
1999	351,573.23	55.00	6,392.24	35.79	228,788.74
2000	289,845.37	55.00	5,269.91	36.36	191,613.82
2001	179,000.00	55.00	3,254.54	36.94	120,206.63
2002	66,094.94	55.00	1,201.73	37.52	45,084.07
2003	271,071.10	55.00	4,928.56	38.11	187,807.97
2004	1,082,516.67	55.00	19,682.11	38.70	761,768.87

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.30 Structures - SPP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2005	428,604.11	55.00	7,792.80	39.31	306,328.73
2006	917,095.09	55.00	16,674.44	39.92	665,696.86
2007	516,608.48	55.00	9,392.87	40.54	380,827.81
2008	2,147,228.90	55.00	39,040.50	41.18	1,607,563.79
2009	2,915,918.08	55.00	53,016.66	41.82	2,217,102.21
2010	2,365,815.22	55.00	43,014.79	42.47	1,826,892.74
2011	298,754.41	55.00	5,431.89	43.13	234,300.49
2012	37,883.52	55.00	688.79	43.81	30,174.82
2013	181,693.78	55.00	3,303.52	44.49	146,982.77
2014	4,039,714.09	55.00	73,449.30	45.19	3,319,330.78
2015	1,545,002.12	55.00	28,090.93	45.90	1,289,510.09
2016	553,292.14	55.00	10,059.85	46.63	469,108.55
2017	463,399.48	55.00	8,425.44	47.37	399,144.91
2018	388,079.03	55.00	7,055.98	48.13	339,598.86
2019	1,004,042.79	55.00	18,255.31	48.91	892,790.41
2020	1,665,213.82	55.00	30,276.59	49.70	1,504,782.08
2021	987,136.34	55.00	17,947.92	50.52	906,675.29
2022	790,909.88	55.00	14,380.17	51.36	738,497.54
2023	435,502.41	55.00	7,918.22	52.22	413,476.68
2024	821,724.47	55.00	14,940.43	53.11	793,425.82
2025	2,477,582.27	55.00	45,046.92	54.03	2,433,947.20
Total	31,680,540.73	55.00	576,009.43	43.43	25,014,991.80

Composite Average Remaining Life ... 43.43 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1916	177,755.17	0.00	0.00	0.00	0.00
1932	602.40	55.00	10.95	5.95	65.13
1935	562,419.57	55.00	10,225.80	7.09	72,480.23
1946	484.94	55.00	8.82	11.37	100.29
1954	3,946,317.60	55.00	71,751.18	14.60	1,047,758.62
1957	135,742.23	55.00	2,468.04	15.84	39,096.68
1961	346,385.67	55.00	6,297.92	17.52	110,337.12
1963	1,566,657.10	55.00	28,484.65	18.37	523,302.05
1965	53,759.86	55.00	977.45	19.23	18,797.65
1967	23,995,715.53	55.00	436,285.43	20.10	8,769,570.06
1968	361,924.73	55.00	6,580.45	20.54	135,154.25
1969	221,599.62	55.00	4,029.08	20.98	84,528.30
1973	38,481.00	55.00	699.65	22.77	15,929.97
1975	419,410.21	55.00	7,625.63	23.68	180,569.79
1976	16,150.91	55.00	293.65	24.14	7,088.57
1978	20,306,005.32	55.00	369,199.84	25.07	9,255,297.28
1981	12,778,313.67	55.00	232,332.81	26.49	6,153,731.16
1984	693,417.71	55.00	12,607.59	27.94	352,219.64
1985	133,860.33	55.00	2,433.82	28.43	69,187.86
1986	385,741.04	55.00	7,013.47	28.92	202,849.45
1988	15,031,971.53	55.00	273,308.38	29.93	8,178,942.01
1989	7,342,590.93	55.00	133,501.56	30.43	4,062,934.52
1990	6,479,049.63	55.00	117,800.82	30.95	3,645,470.58
1991	34,903,905.07	55.00	634,616.02	31.46	19,966,657.61
1992	52,055,984.18	55.00	946,471.78	31.98	30,272,724.60
1993	354,817.39	55.00	6,451.22	32.51	209,742.52
1994	16,680.06	55.00	303.27	33.04	10,021.53

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 *Survivor Curve:* S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1995	124,581.42	55.00	2,265.12	33.58	76,067.82
1996	642,593.75	55.00	11,683.51	34.12	398,697.09
1997	274,432.07	55.00	4,989.67	34.67	173,013.30
1998	599,628.40	55.00	10,902.33	35.23	384,087.35
1999	230,360.60	55.00	4,188.37	35.79	149,908.77
2000	6,456,390.86	55.00	117,388.84	36.36	4,268,254.22
2001	2,266,355.22	55.00	41,206.43	36.94	1,521,960.43
2002	1,387,706.79	55.00	25,231.02	37.52	946,569.67
2003	1,983,806.66	55.00	36,069.19	38.11	1,374,453.78
2004	204,864.73	55.00	3,724.81	38.70	144,163.67
2005	814,250.99	55.00	14,804.55	39.31	581,955.40
2006	1,009,776.60	55.00	18,359.56	39.92	732,972.10
2007	46,539.86	55.00	846.18	40.54	34,307.75
2008	2,849,140.44	55.00	51,802.52	41.18	2,133,063.22
2009	17,686,455.46	55.00	321,571.69	41.82	13,447,798.72
2010	20,483,746.66	55.00	372,431.50	42.47	15,817,637.69
2011	16,053,015.59	55.00	291,872.81	43.13	12,589,703.23
2012	3,496,681.74	55.00	63,575.99	43.81	2,785,162.04
2013	231,088.74	55.00	4,201.61	44.49	186,941.26
2014	10,269,815.58	55.00	186,723.79	45.19	8,438,447.43
2015	149,213.17	55.00	2,712.96	45.90	124,538.27
2016	446,427.21	55.00	8,116.85	46.63	378,503.16
2017	990,597.57	55.00	18,010.85	47.37	853,242.17
2018	421,177.10	55.00	7,657.76	48.13	368,562.20
2019	208,842.04	55.00	3,797.13	48.91	185,701.42
2020	2,243,371.63	55.00	40,788.55	49.70	2,027,238.42
2021	2,311,174.12	55.00	42,021.32	50.52	2,122,791.33

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	7,852,783.99	55.00	142,777.79	51.36	7,332,392.45
2023	12,748,818.46	55.00	231,796.54	52.22	12,104,041.29
2025	1,588,339.04	55.00	28,878.87	54.03	1,560,365.29
Total	298,397,719.89	54.04	5,422,177.41	34.42	186,627,098.39

Composite Average Remaining Life ... 34.42 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.70 Structures - General

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1939	3,411.97	0.00	0.00	0.00	0.00
1972	444.00	35.00	12.69	4.52	57.31
1984	11,137.33	35.00	318.21	8.51	2,709.09
1993	16,791.36	35.00	479.75	12.09	5,801.07
1994	28,966.43	35.00	827.61	12.53	10,371.19
1997	5,808.00	35.00	165.94	13.91	2,308.55
2003	3,734.52	35.00	106.70	17.00	1,813.55
2007	1,132.52	35.00	32.36	19.35	626.07
2008	352,581.82	35.00	10,073.76	19.98	201,269.69
2009	44,295.19	35.00	1,265.58	20.63	26,106.57
2010	5,400.95	35.00	154.31	21.30	3,286.56
2011	7,070.39	35.00	202.01	21.99	4,441.86
2012	28,333.08	35.00	809.52	22.70	18,375.56
2013	25,147.02	35.00	718.49	23.43	16,835.83
2014	411,945.03	35.00	11,769.86	24.19	284,685.78
2015	1,017,794.79	35.00	29,079.85	24.97	726,007.55
2016	9,144.35	35.00	261.27	25.77	6,731.88
2017	131,099.65	35.00	3,745.70	26.59	99,606.96
2018	369,497.94	35.00	10,557.08	27.44	289,710.18
2019	84,245.96	35.00	2,407.03	28.32	68,157.34
2020	174,483.42	35.00	4,985.24	29.21	145,634.21
2021	644,053.82	35.00	18,401.53	30.13	554,489.15
2022	1,084,723.04	35.00	30,992.08	31.07	963,040.59
2023	771,776.36	35.00	22,050.75	32.03	706,356.81
2024	2,019,804.56	35.00	57,708.69	33.01	1,905,016.79
2025	695,829.05	35.00	19,880.83	34.00	675,979.18
2026	78,801.98	35.00	2,251.48	34.75	78,238.97

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.70 Structures - General

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	8,027,454.53	33.70	229,258.31	29.65	6,797,658.28

Composite Average Remaining Life ... 29.65 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
355.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1980	3,900.49	35.00	111.44	8.27	922.13
1983	14,573.73	35.00	416.39	9.39	3,908.60
1987	19,246.40	35.00	549.90	10.94	6,014.04
1989	49,338.78	35.00	1,409.68	11.75	16,557.25
1990	7,692.28	35.00	219.78	12.16	2,672.31
1992	59,866.38	35.00	1,710.46	13.01	22,247.53
1993	260,597.74	35.00	7,445.63	13.44	100,079.50
1994	12,067.19	35.00	344.78	13.88	4,786.75
1997	30,447.00	35.00	869.91	15.26	13,274.70
1998	74,281.11	35.00	2,122.31	15.74	33,397.57
1999	54,144.46	35.00	1,546.98	16.22	25,095.98
2000	97,004.84	35.00	2,771.56	16.72	46,336.82
2001	38,477.83	35.00	1,099.36	17.23	18,936.79
2002	56,915.93	35.00	1,626.17	17.74	28,851.46
2005	68,295.28	35.00	1,951.29	19.37	37,787.18
2007	12,208.69	35.00	348.82	20.51	7,154.73
2008	1,263,581.59	35.00	36,102.23	21.11	761,944.63
2009	2,513,725.97	35.00	71,820.55	21.71	1,559,425.06
2010	20,681.36	35.00	590.89	22.34	13,198.85
2011	62,203.16	35.00	1,777.23	22.98	40,835.96
2012	81,422.26	35.00	2,326.34	23.63	54,981.39
2013	26,762.41	35.00	764.64	24.31	18,587.21
2014	609,411.88	35.00	17,411.72	25.00	435,306.67
2015	84,106.93	35.00	2,403.05	25.71	61,786.71
2016	10,498.31	35.00	299.95	26.44	7,931.00
2017	13,046.73	35.00	372.76	27.19	10,136.21
2018	4,307.88	35.00	123.08	27.96	3,441.89

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
355.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2019	9,195.02	35.00	262.71	28.76	7,555.13
2020	160,993.90	35.00	4,599.81	29.57	136,035.83
2021	241,827.33	35.00	6,909.33	30.41	210,138.29
2022	226,859.70	35.00	6,481.69	31.28	202,729.39
2023	90,971.14	35.00	2,599.17	32.16	83,600.64
2024	88,903.89	35.00	2,540.10	33.08	84,026.08
2025	764,953.95	35.00	21,855.77	34.02	743,605.96
2026	150,000.00	35.00	4,285.70	34.75	148,933.43
Total	7,282,511.54	35.00	208,071.19	23.80	4,952,223.66

Composite Average Remaining Life ... 23.80 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
360.10 Collection Sewers - Force Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 75 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1935	46,479.68	75.00	619.73	9.12	5,649.64
1957	7,017.77	75.00	93.57	18.18	1,700.94
1958	32,439.89	75.00	432.53	18.73	8,100.44
1965	13,312.07	75.00	177.49	22.92	4,068.32
1972	81,989.59	75.00	1,093.19	27.63	30,202.35
1973	125,512.54	75.00	1,673.50	28.34	47,420.03
1974	1,497,279.66	75.00	19,963.73	29.06	580,081.51
1975	848,628.94	75.00	11,315.05	29.78	336,995.02
1976	970,148.34	75.00	12,935.31	30.52	394,741.30
1977	458,278.66	75.00	6,110.38	31.26	191,023.67
1978	270,029.88	75.00	3,600.40	32.01	115,258.02
1979	73,663.59	75.00	982.18	32.77	32,186.17
1980	153,333.12	75.00	2,044.44	33.54	68,568.15
1981	160,772.77	75.00	2,143.64	34.31	73,552.78
1982	49,947.27	75.00	665.96	35.09	23,370.12
1983	192,190.75	75.00	2,562.54	35.88	91,951.33
1985	309,658.34	75.00	4,128.78	37.48	154,744.15
1986	64,179.15	75.00	855.72	38.29	32,766.43
1987	225,759.49	75.00	3,010.13	39.11	117,716.46
1988	488,759.72	75.00	6,516.80	39.93	260,207.94
1989	92,040.24	75.00	1,227.20	40.76	50,021.29
1990	94,015.68	75.00	1,253.54	41.60	52,142.50
1991	75,406.03	75.00	1,005.41	42.44	42,667.49
1992	34,658.68	75.00	462.12	43.29	20,004.28
1993	576,129.44	75.00	7,681.73	44.14	339,095.90
1994	284,849.73	75.00	3,798.00	45.00	170,923.29
1995	932,773.48	75.00	12,436.98	45.87	570,515.20

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
360.10 Collection Sewers - Force Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 75 *Survivor Curve:* R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1996	132,223.77	75.00	1,762.98	46.75	82,411.15
1997	1,677,251.22	75.00	22,363.35	47.62	1,065,018.57
1998	656,696.70	75.00	8,755.96	48.51	424,747.46
1999	458,770.01	75.00	6,116.93	49.40	302,172.56
2000	600,881.37	75.00	8,011.75	50.29	402,944.32
2001	861,380.28	75.00	11,485.07	51.20	587,994.46
2002	1,673,772.44	75.00	22,316.96	52.10	1,162,760.60
2003	408,112.78	75.00	5,441.50	53.01	288,467.20
2004	2,395,283.13	75.00	31,937.11	53.93	1,722,353.55
2005	654,538.20	75.00	8,727.18	54.85	478,684.10
2006	1,952,921.28	75.00	26,038.95	55.77	1,452,305.81
2007	1,273,610.46	75.00	16,981.47	56.71	962,935.13
2008	4,685,962.53	75.00	62,479.50	57.64	3,601,231.11
2009	1,042,001.08	75.00	13,893.35	58.58	813,816.53
2010	744,871.78	75.00	9,931.62	59.52	591,118.73
2013	290,505.05	75.00	3,873.40	62.37	241,571.24
2014	4,342,455.84	75.00	57,899.41	63.32	3,666,340.44
2015	2,379,137.30	75.00	31,721.83	64.28	2,039,124.45
2016	3,118,339.25	75.00	41,577.86	65.24	2,712,721.86
2017	3,465,621.85	75.00	46,208.29	66.21	3,059,419.57
2018	1,041,950.42	75.00	13,892.67	67.18	933,264.88
2019	4,281,939.91	75.00	57,092.53	68.15	3,890,726.23
2020	2,056,895.20	75.00	27,425.27	69.12	1,895,644.03
2021	2,129,358.87	75.00	28,391.45	70.10	1,990,101.38
2022	1,466,734.30	75.00	19,556.46	71.07	1,389,931.05
2023	2,383,119.17	75.00	31,774.92	72.05	2,289,439.37
2024	3,195,435.07	75.00	42,605.80	73.03	3,111,610.73

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
360.10 Collection Sewers - Force Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2025	1,682,552.91	75.00	22,434.04	74.02	1,660,471.45
2026	101,839.31	75.00	1,357.86	74.75	101,505.09
Total	59,313,415.98	75.00	790,845.52	59.10	46,736,507.78

Composite Average Remaining Life ... 59.10 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1915	20,800.43	80.00	260.01	9.20	2,392.83
1916	851.12	80.00	10.64	9.43	100.33
1917	667.72	80.00	8.35	9.67	80.71
1919	747.44	80.00	9.34	10.16	94.91
1920	97,547.06	80.00	1,219.34	10.41	12,690.56
1921	569.40	80.00	7.12	10.65	75.78
1922	3,100.65	80.00	38.76	10.90	422.53
1924	832.39	80.00	10.40	11.42	118.80
1925	2,685.38	80.00	33.57	11.69	392.24
1926	30,850.73	80.00	385.63	11.96	4,611.61
1927	4,457.85	80.00	55.72	12.24	681.94
1928	6,831.76	80.00	85.40	12.52	1,069.50
1929	6,620.90	80.00	82.76	12.81	1,060.07
1930	204,717.21	80.00	2,558.96	13.11	33,541.30
1931	12,486.56	80.00	156.08	13.41	2,093.64
1932	23,127.22	80.00	289.09	13.72	3,967.69
1933	13,725.17	80.00	171.56	14.05	2,409.89
1934	3,773.18	80.00	47.16	14.38	678.10
1935	439,277.76	80.00	5,490.97	14.72	80,810.45
1936	339,206.60	80.00	4,240.08	15.07	63,880.79
1937	53,634.16	80.00	670.43	15.42	10,340.14
1938	49,314.37	80.00	616.43	15.79	9,734.38
1939	53,519.09	80.00	668.99	16.17	10,817.44
1940	17,914.95	80.00	223.94	16.56	3,708.15
1941	7,876.61	80.00	98.46	16.96	1,669.66
1942	31,749.71	80.00	396.87	17.37	6,892.83
1943	2,128,906.99	80.00	26,611.32	17.79	473,364.99

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1944	3,824.29	80.00	47.80	18.22	871.02
1945	37,737.08	80.00	471.71	18.66	8,803.69
1946	92,312.86	80.00	1,153.91	19.12	22,058.38
1947	22,776.77	80.00	284.71	19.58	5,574.53
1948	4,759.64	80.00	59.50	20.06	1,193.29
1949	2,855.01	80.00	35.69	20.54	733.12
1950	63,111.71	80.00	788.90	21.04	16,597.68
1951	9,197.47	80.00	114.97	21.55	2,477.08
1952	3,050.73	80.00	38.13	22.06	841.34
1953	413,316.19	80.00	5,166.45	22.59	116,735.64
1954	206,559.63	80.00	2,581.99	23.13	59,730.41
1955	84,666.50	80.00	1,058.33	23.68	25,063.05
1956	36,033.45	80.00	450.42	24.24	10,919.64
1957	880,446.89	80.00	11,005.58	24.81	273,075.21
1958	41,069.76	80.00	513.37	25.39	13,034.89
1961	44,379.11	80.00	554.74	27.19	15,080.65
1962	45,153.79	80.00	564.42	27.80	15,691.16
1963	29,796.24	80.00	372.45	28.42	10,586.59
1965	301,561.49	80.00	3,769.52	29.70	111,958.04
1966	21,042,778.70	80.00	263,034.55	30.35	7,983,126.03
1968	34,132.78	80.00	426.66	31.67	13,512.81
1969	394,312.17	80.00	4,928.90	32.35	159,440.46
1970	775,334.71	80.00	9,691.68	33.03	320,100.78
1971	7,073.40	80.00	88.42	33.72	2,981.06
1972	6,152,206.31	80.00	76,902.53	34.41	2,646,467.73
1974	111,039.39	80.00	1,387.99	35.82	49,724.46
1975	3,726,795.67	80.00	46,584.91	36.54	1,702,224.15

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1976	300,267.29	80.00	3,753.34	37.26	139,857.32
1977	179,692.62	80.00	2,246.16	37.99	85,342.59
1978	78,073.99	80.00	975.92	38.73	37,798.19
1979	96,940.49	80.00	1,211.76	39.47	47,830.91
1980	3,205,663.31	80.00	40,070.76	40.22	1,611,770.97
1982	19,199.56	80.00	239.99	41.74	10,017.09
1983	24,427,267.04	80.00	305,340.62	42.51	12,978,592.58
1984	2,791,609.93	80.00	34,895.10	43.28	1,510,168.04
1985	3,476,274.13	80.00	43,453.40	44.06	1,914,519.76
1986	1,037,905.71	80.00	12,973.81	44.84	581,791.54
1987	1,003,474.62	80.00	12,543.42	45.63	572,397.84
1988	2,968,574.20	80.00	37,107.15	46.43	1,722,922.14
1989	2,333,394.87	80.00	29,167.42	47.23	1,377,651.85
1990	6,007,152.18	80.00	75,089.35	48.04	3,607,238.89
1992	5,278,517.15	80.00	65,981.42	49.67	3,277,161.92
1993	6,412,337.46	80.00	80,154.16	50.49	4,047,251.65
1994	593,278.33	80.00	7,415.97	51.32	380,596.22
1995	10,219,489.56	80.00	127,743.53	52.15	6,662,298.67
1996	417,411.79	80.00	5,217.64	52.99	276,499.89
1997	3,281,454.11	80.00	41,018.15	53.84	2,208,262.71
1998	3,172,689.02	80.00	39,658.59	54.68	2,168,680.56
1999	2,448,819.97	80.00	30,610.23	55.54	1,699,962.47
2000	3,482,494.63	80.00	43,531.15	56.39	2,454,816.11
2001	1,790,756.89	80.00	22,384.45	57.26	1,281,641.64
2002	3,117,083.73	80.00	38,963.52	58.12	2,264,628.79
2003	2,132,778.40	80.00	26,659.71	58.99	1,572,703.64
2004	1,181,942.93	80.00	14,774.28	59.87	884,474.50

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2005	7,373,787.88	80.00	92,172.28	60.75	5,599,152.29
2006	1,886,545.62	80.00	23,581.80	61.63	1,453,330.93
2007	6,270,878.10	80.00	78,385.92	62.52	4,900,363.16
2008	8,385,260.51	80.00	104,815.68	63.41	6,645,950.63
2009	7,858,218.72	80.00	98,227.67	64.30	6,316,269.28
2010	5,158,886.49	80.00	64,486.04	65.20	4,204,517.79
2011	3,145,520.94	80.00	39,318.98	66.10	2,599,061.69
2012	2,044,797.66	80.00	25,559.95	67.01	1,712,728.55
2013	4,146,142.10	80.00	51,826.74	67.92	3,519,919.91
2014	12,093,330.27	80.00	151,166.52	68.83	10,404,638.17
2015	5,348,537.36	80.00	66,856.67	69.74	4,662,849.43
2016	5,943,291.05	80.00	74,291.09	70.66	5,249,551.82
2017	15,508,922.33	80.00	193,861.39	71.58	13,877,510.89
2018	2,821,899.79	80.00	35,273.72	72.51	2,557,660.64
2019	13,399,979.75	80.00	167,499.63	73.44	12,300,487.21
2020	3,498,960.46	80.00	43,736.98	74.37	3,252,572.30
2021	5,360,545.19	80.00	67,006.77	75.30	5,045,564.83
2022	4,637,003.75	80.00	57,962.51	76.23	4,418,740.87
2023	5,002,846.82	80.00	62,535.54	77.17	4,825,992.67
2024	9,629,752.70	80.00	120,371.82	78.11	9,402,466.10
2025	11,155,854.37	80.00	139,448.08	79.06	11,024,120.60
2026	4,697,137.81	80.00	58,714.18	79.76	4,683,267.96
Total	274,944,717.73	80.00	3,436,806.57	57.71	198,349,900.33

Composite Average Remaining Life ... 57.71 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1916	1,858.59	0.00	0.00	0.00	0.00
1917	11,164.06	0.00	0.00	0.00	0.00
1921	3,697.35	0.00	0.00	0.00	0.00
1924	2,673.32	0.00	0.00	0.00	0.00
1925	127,689.05	0.00	0.00	0.00	0.00
1926	130,762.03	0.00	0.00	0.00	0.00
1927	27,990.30	0.00	0.00	0.00	0.00
1928	19,350.14	50.00	387.00	0.50	193.50
1930	100,475.18	50.00	2,009.50	0.81	1,618.49
1931	66,374.52	50.00	1,327.49	0.97	1,289.70
1932	12,339.91	50.00	246.80	1.14	282.48
1933	3,562.72	50.00	71.25	1.32	94.24
1934	9,128.63	50.00	182.57	1.50	274.76
1935	59,690.49	50.00	1,193.81	1.69	2,018.41
1936	113,228.81	50.00	2,264.58	1.88	4,256.60
1937	65,187.08	50.00	1,303.74	2.07	2,700.84
1938	67,065.03	50.00	1,341.30	2.27	3,040.00
1939	93,799.34	50.00	1,875.99	2.46	4,622.45
1940	30,988.72	50.00	619.77	2.66	1,651.31
1941	5,505.67	50.00	110.11	2.87	315.76
1942	63,793.68	50.00	1,275.87	3.07	3,921.56
1943	2,154,143.63	50.00	43,082.88	3.28	141,424.16
1944	12,801.21	50.00	256.02	3.49	894.69
1945	11,086.41	50.00	221.73	3.71	822.52
1946	67,983.45	50.00	1,359.67	3.93	5,340.45
1947	53,884.09	50.00	1,077.68	4.15	4,471.48
1948	10,596.83	50.00	211.94	4.37	926.99

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1949	8,209.54	50.00	164.19	4.60	755.62
1950	46,476.89	50.00	929.54	4.83	4,493.27
1951	24,462.07	50.00	489.24	5.07	2,480.13
1952	12,686.36	50.00	253.73	5.31	1,346.94
1953	619,978.28	50.00	12,399.57	5.55	68,840.85
1954	297,965.58	50.00	5,959.31	5.80	34,559.42
1955	125,323.70	50.00	2,506.47	6.05	15,166.27
1956	70,239.60	50.00	1,404.79	6.31	8,859.84
1957	35,553.38	50.00	711.07	6.57	4,669.92
1958	55,053.95	50.00	1,101.08	6.83	7,523.50
1961	80,007.82	50.00	1,600.16	7.66	12,256.18
1962	48,378.68	50.00	967.57	7.95	7,688.02
1963	46,545.98	50.00	930.92	8.24	7,668.66
1965	61,588.34	50.00	1,231.77	8.84	10,888.85
1966	4,547,980.68	50.00	90,959.62	9.15	832,347.71
1968	35,245.12	50.00	704.90	9.79	6,902.82
1969	77,913.00	50.00	1,558.26	10.12	15,776.26
1970	146,841.05	50.00	2,936.82	10.46	30,729.45
1971	13,692.94	50.00	273.86	10.81	2,960.58
1972	1,035,550.56	50.00	20,711.01	11.17	231,255.74
1974	8,973.92	50.00	179.48	11.90	2,136.17
1975	598,400.89	50.00	11,968.02	12.28	147,012.87
1977	42,682.64	50.00	853.65	13.08	11,162.49
1979	34,363.21	50.00	687.26	13.91	9,559.56
1980	1,191,652.53	50.00	23,833.05	14.34	341,829.88
1983	808,417.74	50.00	16,168.36	15.71	254,045.30
1984	133,837.55	50.00	2,676.75	16.19	43,347.39

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1985	767,601.12	50.00	15,352.02	16.69	256,206.04
1986	205,282.76	50.00	4,105.66	17.20	70,605.36
1987	236,305.77	50.00	4,726.12	17.72	83,744.51
1988	295,388.50	50.00	5,907.77	18.26	107,854.99
1989	21,413.09	50.00	428.26	18.81	8,054.90
1990	1,673,138.35	50.00	33,462.77	19.38	648,362.29
1992	572,466.07	50.00	11,449.32	20.56	235,375.22
1993	358,530.06	50.00	7,170.60	21.17	151,829.54
1994	240,148.58	50.00	4,802.97	21.81	104,737.13
1995	2,834,250.58	50.00	56,685.02	22.46	1,272,968.01
1996	171,595.04	50.00	3,431.90	23.12	79,361.31
1997	1,035,971.18	50.00	20,719.42	23.81	493,332.75
1998	489,358.93	50.00	9,787.18	24.51	239,920.76
1999	595,305.34	50.00	11,906.11	25.24	300,457.79
2000	573,605.11	50.00	11,472.10	25.98	297,996.22
2001	379,368.32	50.00	7,587.37	26.73	202,841.98
2002	746,546.96	50.00	14,930.94	27.51	410,763.36
2003	628,146.13	50.00	12,562.92	28.31	355,602.74
2004	602,076.27	50.00	12,041.53	29.12	350,631.01
2005	2,284,355.62	50.00	45,687.12	29.95	1,368,275.42
2006	171,019.33	50.00	3,420.39	30.80	105,335.40
2007	2,053,190.25	50.00	41,063.81	31.66	1,300,100.73
2008	2,385,842.26	50.00	47,716.85	32.54	1,552,738.92
2009	238,809.80	50.00	4,776.20	33.44	159,697.67
2010	783,402.27	50.00	15,668.05	34.35	538,136.30
2011	1,314,595.91	50.00	26,291.92	35.27	927,304.78
2012	96,979.95	50.00	1,939.60	36.21	70,224.29

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2013	1,061,771.03	50.00	21,235.42	37.15	788,959.61
2014	2,194,316.38	50.00	43,886.33	38.11	1,672,538.94
2015	5,519,102.74	50.00	110,382.06	39.08	4,313,454.42
2016	283,131.09	50.00	5,662.62	40.05	226,800.21
2017	406,385.82	50.00	8,127.72	41.03	333,508.38
2018	185,760.51	50.00	3,715.21	42.02	156,114.06
2019	153,156.71	50.00	3,063.13	43.01	131,749.60
2020	686,920.39	50.00	13,738.41	44.01	604,569.58
2021	448,218.33	50.00	8,964.37	45.00	403,419.71
2022	1,007,195.90	50.00	20,143.92	46.00	926,639.44
2023	923,446.25	50.00	18,468.93	47.00	868,044.30
2024	1,617,240.56	50.00	32,344.81	48.00	1,552,552.15
2025	1,685,589.36	50.00	33,711.79	49.00	1,651,877.77
2026	617,129.21	50.00	12,342.59	49.75	614,043.53
Total	52,078,900.07	46.32	1,035,461.38	27.27	28,233,155.23

Composite Average Remaining Life ... 27.27 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1916	7,806.31	0.00	0.00	0.00	0.00
1917	26,540.85	0.00	0.00	0.00	0.00
1919	5,017.98	0.00	0.00	0.00	0.00
1921	335.47	0.00	0.00	0.00	0.00
1922	1,885.45	0.00	0.00	0.00	0.00
1924	9,739.36	0.00	0.00	0.00	0.00
1925	375,591.20	0.00	0.00	0.00	0.00
1926	255,584.09	0.00	0.00	0.00	0.00
1927	76,017.05	0.00	0.00	0.00	0.00
1928	29,168.27	0.00	0.00	0.00	0.00
1929	107.20	0.00	0.00	0.00	0.00
1930	166,687.07	0.00	0.00	0.00	0.00
1931	100,103.45	0.00	0.00	0.00	0.00
1932	44,722.95	0.00	0.00	0.00	0.00
1933	3,111.15	0.00	0.00	0.00	0.00
1934	11,838.19	0.00	0.00	0.00	0.00
1935	79,477.10	0.00	0.00	0.00	0.00
1936	163,028.69	0.00	0.00	0.00	0.00
1937	68,214.45	0.00	0.00	0.00	0.00
1938	72,468.05	0.00	0.00	0.00	0.00
1939	56,059.17	0.00	0.00	0.00	0.00
1940	19,637.21	0.00	0.00	0.00	0.00
1941	3,916.01	0.00	0.00	0.00	0.00
1942	46,032.91	0.00	0.00	0.00	0.00
1943	3,370,512.84	0.00	0.00	0.00	0.00
1944	14,897.26	0.00	0.00	0.00	0.00
1945	12,047.42	0.00	0.00	0.00	0.00

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1946	50,187.51	0.00	0.00	0.00	0.00
1947	40,159.11	47.00	854.45	0.50	427.23
1948	3,398.43	47.00	72.31	0.54	38.86
1949	3,667.64	47.00	78.04	0.69	54.23
1950	13,463.95	47.00	286.47	0.89	255.57
1951	7,361.97	47.00	156.64	1.11	173.40
1952	3,826.17	47.00	81.41	1.31	106.66
1953	514,306.24	47.00	10,942.71	1.56	17,044.92
1954	108,282.11	47.00	2,303.88	1.81	4,159.00
1955	40,791.50	47.00	867.91	2.05	1,783.49
1956	21,872.21	47.00	465.37	2.31	1,073.66
1957	178,227.80	47.00	3,792.09	2.56	9,713.12
1958	15,676.15	47.00	333.54	2.82	939.60
1961	11,501.84	47.00	244.72	3.58	875.32
1962	16,875.57	47.00	359.06	3.84	1,377.01
1963	7,554.78	47.00	160.74	4.09	658.06
1965	57,025.05	47.00	1,213.30	4.62	5,602.57
1966	9,351,408.00	47.00	198,966.63	4.89	972,004.15
1968	12,249.09	47.00	260.62	5.43	1,416.40
1969	8,267.49	47.00	175.90	5.73	1,007.34
1970	375,927.55	47.00	7,998.48	6.03	48,230.57
1971	10,147.86	47.00	215.91	6.35	1,370.24
1972	600,468.11	47.00	12,775.95	6.68	85,304.63
1973	2,279.88	47.00	48.51	7.02	340.69
1974	8,326.62	47.00	177.16	7.39	1,308.61
1975	1,668,830.51	47.00	35,507.12	7.77	275,797.38
1976	53,840.62	47.00	1,145.55	8.17	9,356.24

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *47* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1977	56,431.70	47.00	1,200.68	8.59	10,310.02
1978	32,539.60	47.00	692.33	9.03	6,248.96
1979	44,889.97	47.00	955.11	9.49	9,059.27
1980	795,225.98	47.00	16,919.74	9.96	168,595.42
1981	72,000.90	47.00	1,531.94	10.46	16,030.17
1982	59,246.17	47.00	1,260.56	10.98	13,845.55
1983	286,759.61	47.00	6,101.28	11.53	70,321.67
1984	249,936.74	47.00	5,317.82	12.09	64,267.44
1985	1,686,548.05	47.00	35,884.09	12.66	454,434.10
1986	225,902.14	47.00	4,806.44	13.26	63,738.72
1987	757,024.65	47.00	16,106.95	13.88	223,503.46
1988	328,192.39	47.00	6,982.83	14.51	101,311.53
1989	310,612.50	47.00	6,608.79	15.16	100,174.65
1990	3,452,675.36	47.00	73,461.36	15.82	1,162,376.41
1991	78,901.02	47.00	1,678.75	16.51	27,709.59
1992	458,036.71	47.00	9,745.49	17.20	167,640.57
1993	752,653.43	47.00	16,013.94	17.91	286,838.85
1994	249,415.94	47.00	5,306.74	18.64	98,893.23
1995	6,460,501.96	47.00	137,457.83	19.37	2,662,857.50
1996	129,213.20	47.00	2,749.22	20.12	55,318.94
1997	436,803.34	47.00	9,293.71	20.88	194,084.92
1998	400,661.88	47.00	8,524.74	21.66	184,622.48
1999	276,843.10	47.00	5,890.29	22.44	132,206.00
2000	1,037,584.74	47.00	22,076.33	23.24	513,094.31
2001	362,617.68	47.00	7,715.29	24.05	185,552.73
2002	477,861.42	47.00	10,167.29	24.87	252,850.13
2003	583,528.79	47.00	12,415.54	25.70	319,061.02

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2004	951,274.13	47.00	20,239.93	26.54	537,135.25
2005	2,835,330.53	47.00	60,326.33	27.39	1,652,238.98
2006	1,001,393.18	47.00	21,306.29	28.25	601,862.99
2007	694,207.14	47.00	14,770.40	29.12	430,100.39
2008	2,560,894.36	47.00	54,487.25	30.00	1,634,504.18
2009	2,504,623.38	47.00	53,289.99	30.89	1,645,899.52
2010	961,776.50	47.00	20,463.38	31.78	650,370.02
2011	235,405.42	47.00	5,008.64	32.69	163,716.70
2012	244,464.10	47.00	5,201.38	33.60	174,763.92
2013	568,322.36	47.00	12,092.00	34.52	417,413.48
2014	645,062.15	47.00	13,724.76	35.45	486,505.81
2015	1,274,427.18	47.00	27,115.54	36.38	986,536.13
2016	681,543.89	47.00	14,500.97	37.32	541,227.84
2017	2,247,809.62	47.00	47,825.86	38.27	1,830,316.89
2018	746,525.60	47.00	15,883.56	39.22	623,000.24
2019	408,541.26	47.00	8,692.39	40.18	349,266.08
2020	976,214.77	47.00	20,770.58	41.14	854,568.82
2021	986,584.37	47.00	20,991.21	42.11	883,944.74
2022	1,385,082.95	47.00	29,469.92	43.08	1,269,602.90
2023	2,691,519.51	47.00	57,266.52	44.06	2,522,969.83
2024	2,707,922.78	47.00	57,615.52	45.03	2,594,704.05
2025	3,978,468.68	47.00	84,648.48	46.02	3,895,184.21
2026	2,941,667.76	47.00	62,588.83	46.75	2,926,243.47
Total	72,498,141.50	34.35	1,434,629.29	25.55	36,657,443.02

Composite Average Remaining Life ... 25.55 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
364.00 Flow Measuring Devices
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 15 **Survivor Curve:** L2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1989	7,979.00	15.00	531.93	1.09	577.29
1990	3,478.54	15.00	231.90	1.25	289.74
1991	8,740.98	15.00	582.73	1.42	828.33
1992	6,784.52	15.00	452.30	1.60	724.06
1999	51,368.90	15.00	3,424.58	2.97	10,169.74
2001	7,764.93	15.00	517.66	3.41	1,766.14
2002	4,455.38	15.00	297.02	3.64	1,081.74
2004	2,628.68	15.00	175.24	4.12	722.60
2005	8,722.16	15.00	581.48	4.37	2,541.67
2006	15,631.29	15.00	1,042.08	4.62	4,816.36
2007	9,030.61	15.00	602.04	4.87	2,934.17
2008	29,418.95	15.00	1,961.26	5.12	10,046.49
2009	92,082.61	15.00	6,138.83	5.37	32,950.72
2010	29,477.55	15.00	1,965.17	5.61	11,023.13
2011	53,822.99	15.00	3,588.19	5.85	20,983.41
2013	26,874.75	15.00	1,791.65	6.34	11,364.63
2014	152,277.99	15.00	10,151.84	6.62	67,189.83
2015	112,570.79	15.00	7,504.70	6.93	52,011.78
2016	5,515.89	15.00	367.73	7.29	2,682.48
2018	1,269.20	15.00	84.61	8.25	697.95
2020	30,025.23	15.00	2,001.68	9.58	19,171.47
2021	21,591.05	15.00	1,439.40	10.37	14,927.23
2024	57,960.15	15.00	3,864.00	13.03	50,365.19
Total	739,472.14	15.00	49,298.02	6.49	319,866.15

Composite Average Remaining Life ... 6.49 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
365.00 Flow Measuring Installations

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *25* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1970	30,360.76	0.00	0.00	0.00	0.00
1991	227,265.28	25.00	9,090.61	3.17	28,800.41
2009	14,938.00	25.00	597.52	10.28	6,143.34
Total	272,564.04	16.67	9,688.13	3.61	34,943.75

Composite Average Remaining Life ... 3.61 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
370.00 Receiving Wells

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2007	6,261.10	50.00	125.22	32.04	4,012.64
2009	92,112.20	50.00	1,842.24	33.83	62,323.22
2013	33,467.05	50.00	669.34	37.49	25,095.59
2017	1,547.02	50.00	30.94	41.26	1,276.59
2019	544,001.01	50.00	10,880.01	43.18	469,746.36
Total	677,388.38	50.00	13,547.76	41.52	562,454.41

Composite Average Remaining Life ... 41.52 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
371.00 Pumping Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 30 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1968	44,572.44	30.00	1,485.74	0.78	1,154.98
1985	24,280.85	30.00	809.36	6.53	5,283.65
1986	79,867.67	30.00	2,662.25	6.89	18,334.72
1987	7,642.10	30.00	254.74	7.25	1,847.11
1989	25,280.42	30.00	842.68	7.99	6,735.92
1990	1,853.38	30.00	61.78	8.37	517.27
1992	112,359.73	30.00	3,745.32	9.15	34,266.60
1993	163,262.78	30.00	5,442.08	9.55	51,955.88
1994	15,771.64	30.00	525.72	9.95	5,231.89
1996	56,409.97	30.00	1,880.33	10.78	20,276.50
1997	43,345.71	30.00	1,444.85	11.21	16,198.73
1998	108,357.25	30.00	3,611.90	11.65	42,070.84
1999	540,107.38	30.00	18,003.54	12.09	217,722.42
2001	14,941.44	30.00	498.05	13.01	6,481.36
2002	61,264.91	30.00	2,042.16	13.49	27,547.03
2003	120,300.61	30.00	4,010.01	13.98	56,043.15
2004	165,809.78	30.00	5,526.98	14.47	80,001.70
2005	101,196.51	30.00	3,373.21	14.99	50,549.55
2006	40,939.15	30.00	1,364.64	15.51	21,164.51
2007	6,013.71	30.00	200.46	16.05	3,216.81
2008	923,937.02	30.00	30,797.84	16.60	511,223.37
2009	596,255.90	30.00	19,875.16	17.17	341,180.49
2010	522,835.51	30.00	17,427.81	17.75	309,342.51
2011	66,689.05	30.00	2,222.96	18.35	40,790.50
2012	41,731.69	30.00	1,391.05	18.97	26,383.57
2013	60,139.67	30.00	2,004.65	19.60	39,297.66
2014	1,683,853.99	30.00	56,128.35	20.26	1,137,062.18

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
371.00 Pumping Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *30* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2015	231,479.33	30.00	7,715.96	20.93	161,520.31
2016	616,593.57	30.00	20,553.08	21.63	444,580.84
2017	394,652.60	30.00	13,155.06	22.35	294,009.92
2018	470,630.36	30.00	15,687.65	23.09	362,246.35
2019	3,678,520.27	30.00	122,617.09	23.86	2,925,459.11
2020	647,002.61	30.00	21,566.71	24.65	531,615.62
2021	200,411.06	30.00	6,680.35	25.47	170,129.45
2022	2,630,308.32	30.00	87,676.76	26.31	2,307,071.98
2023	2,045,192.82	30.00	68,172.95	27.19	1,853,410.12
2024	1,053,884.16	30.00	35,129.40	28.09	986,785.14
2025	2,753,247.83	30.00	91,774.74	29.03	2,663,942.87
2026	108,359.40	30.00	3,611.97	29.75	107,463.22
Total	20,459,302.59	30.00	681,975.33	23.29	15,880,115.82

Composite Average Remaining Life ... 23.29 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
380.00 Treatment Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1951	883,022.26	0.00	0.00	0.00	0.00
1957	9,974.93	35.00	285.00	0.50	142.50
1963	78,254.64	35.00	2,235.85	1.85	4,139.30
1965	82,976.23	35.00	2,370.75	2.35	5,577.84
1967	161,338.58	35.00	4,609.67	2.86	13,184.47
1969	2,135.68	35.00	61.02	3.36	204.85
1973	942.49	35.00	26.93	4.38	117.94
1981	2,349,282.72	35.00	67,122.36	6.61	443,846.42
1984	579,942.00	35.00	16,569.77	7.55	125,086.77
1985	475,390.93	35.00	13,582.60	7.88	107,001.33
1986	718,183.56	35.00	20,519.53	8.22	168,580.03
1987	144,005.43	35.00	4,114.44	8.56	35,231.43
1988	807,069.17	35.00	23,059.12	8.92	205,702.55
1989	1,180,166.51	35.00	33,719.04	9.29	313,190.24
1990	2,525,982.44	35.00	72,170.92	9.67	697,681.75
1991	2,228,120.32	35.00	63,660.58	10.06	640,282.14
1992	800,446.34	35.00	22,869.89	10.46	239,238.22
1993	3,123,569.61	35.00	89,244.84	10.88	970,710.70
1994	58,409.18	35.00	1,668.83	11.31	18,868.97
1995	7,326.38	35.00	209.33	11.75	2,459.61
1996	78,496.10	35.00	2,242.75	12.21	27,382.32
1997	20,020.97	35.00	572.03	12.68	7,255.63
1998	3,732,376.20	35.00	106,639.31	13.18	1,404,993.61
1999	1,075,080.44	35.00	30,716.58	13.68	420,305.88
2000	5,184.07	35.00	148.12	14.21	2,104.62
2001	1,762,179.95	35.00	50,348.00	14.75	742,807.35
2002	620,800.49	35.00	17,737.16	15.32	271,654.18

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
380.00 Treatment Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S1.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2003	2,040,239.31	35.00	58,292.55	15.90	926,788.88
2004	697,649.55	35.00	19,932.84	16.50	328,943.99
2005	2,240,663.42	35.00	64,018.95	17.13	1,096,463.44
2006	691,844.48	35.00	19,766.98	17.77	351,320.43
2007	56,136.69	35.00	1,603.91	18.44	29,577.35
2008	934,814.77	35.00	26,708.99	19.13	510,963.27
2009	18,920,341.69	35.00	540,581.15	19.84	10,726,025.13
2010	21,356,104.88	35.00	610,174.38	20.58	12,555,713.83
2011	7,087,271.96	35.00	202,493.47	21.34	4,320,302.62
2012	4,795,780.45	35.00	137,022.29	22.12	3,030,434.14
2013	3,050,100.31	35.00	87,145.72	22.92	1,997,340.92
2014	8,805,589.90	35.00	251,588.27	23.74	5,973,894.66
2015	1,026,634.71	35.00	29,332.42	24.59	721,323.30
2016	541,143.00	35.00	15,461.23	25.46	393,603.30
2017	651,642.83	35.00	18,618.37	26.35	490,503.72
2018	4,754,516.64	35.00	135,843.32	27.25	3,701,950.37
2019	1,905,584.56	35.00	54,445.27	28.18	1,534,028.80
2020	8,555,129.67	35.00	244,432.26	29.12	7,116,839.51
2021	10,537,780.31	35.00	301,079.42	30.07	9,053,652.30
2022	11,386,761.79	35.00	325,336.03	31.04	10,097,943.61
2023	11,445,871.83	35.00	327,024.89	32.02	10,470,365.48
2024	4,163,369.49	35.00	118,953.41	33.01	3,926,119.31
2025	4,713,785.71	35.00	134,679.58	34.00	4,579,211.56
2026	279,518.83	35.00	7,986.25	34.75	277,522.03

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
380.00 Treatment Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	154,148,954.40	34.31	4,379,026.33	23.08	101,078,582.63

Composite Average Remaining Life ... *23.08 Years*

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
381.00 Plant Sewers

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2008	294,411.86	50.00	5,888.23	32.93	193,917.75
2009	4,434,866.70	50.00	88,697.29	33.83	3,000,636.03
2010	1,187,964.50	50.00	23,759.28	34.73	825,275.68
2011	6,597.06	50.00	131.94	35.65	4,703.33
2012	1,684.33	50.00	33.69	36.57	1,231.81
2014	234,044.45	50.00	4,680.89	38.43	179,866.97
2015	4,256.52	50.00	85.13	39.36	3,351.14
2016	45,239.43	50.00	904.79	40.31	36,471.64
2021	1,641.43	50.00	32.83	45.11	1,480.83
2022	431,044.32	50.00	8,620.88	46.08	397,252.52
2025	13,045.20	50.00	260.90	49.02	12,788.47
Total	6,654,795.80	50.00	133,095.85	34.99	4,656,976.16

Composite Average Remaining Life ... 34.99 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
382.00 Outfall Sewer Lines

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1957	12,139.53	50.00	242.79	3.85	933.80
1975	4,177.28	50.00	83.55	9.63	804.60
1993	192,691.50	50.00	3,853.83	20.59	79,362.65
2004	1,695.94	50.00	33.92	29.43	998.20
2005	9,240.93	50.00	184.82	30.29	5,598.51
2006	201,117.58	50.00	4,022.35	31.16	125,351.47
2009	26,051.26	50.00	521.02	33.83	17,626.31
2010	27,827.93	50.00	556.56	34.73	19,331.99
2014	100,305.10	50.00	2,006.10	38.43	77,086.10
2017	18,433.32	50.00	368.67	41.26	15,211.10
2023	33,315.31	50.00	666.31	47.06	31,353.60
Total	626,995.68	50.00	12,539.91	29.80	373,658.32

Composite Average Remaining Life ... 29.80 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
389.10 Other Plant - Intangibles

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2010	273,149.74	20.00	13,657.49	6.88	94,015.04
2013	8,814.50	20.00	440.73	8.60	3,789.47
2022	91,911.93	20.00	4,595.60	16.02	73,625.85
2023	1,990,538.30	20.00	99,526.92	17.01	1,692,571.81
2024	272,366.55	20.00	13,618.33	18.00	245,144.11
2025	22,280.04	20.00	1,114.00	19.00	21,166.09
Total	2,659,061.06	20.00	132,953.06	16.02	2,130,312.38

Composite Average Remaining Life ... 16.02 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
391.00 Transportation Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 14 *Survivor Curve:* L4

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1986	6,625.93	0.00	0.00	0.00	0.00
1987	468.88	0.00	0.00	0.00	0.00
1990	30,431.59	0.00	0.00	0.00	0.00
1991	21,931.10	0.00	0.00	0.00	0.00
2000	5,861.06	14.00	418.64	0.79	330.54
2001	22,361.85	14.00	1,597.24	0.90	1,444.52
2002	5,389.24	14.00	384.94	1.03	395.53
2005	3,310.52	14.00	236.46	1.49	352.18
2006	73,113.90	14.00	5,222.30	1.67	8,730.24
2011	149,228.96	14.00	10,658.97	2.64	28,134.25
2012	73,865.31	14.00	5,275.97	2.78	14,673.47
2013	62,726.96	14.00	4,480.40	2.99	13,409.62
2014	3,075.33	14.00	219.66	3.35	736.08
2016	2,423.80	14.00	173.12	4.58	793.57
2017	8,526.46	14.00	609.02	5.36	3,265.03
2018	927,895.26	14.00	66,276.73	6.20	410,798.97
2019	299,081.56	14.00	21,362.48	7.09	151,447.91
2020	26,190.18	14.00	1,870.68	8.03	15,020.58
2022	1,422,366.36	14.00	101,595.29	10.00	1,016,004.79
2023	1,165,809.58	14.00	83,270.22	11.00	915,998.91
2024	422,529.36	14.00	30,179.98	12.00	362,169.39
2025	3,630.70	14.00	259.33	13.00	3,371.37
2026	49,317.00	14.00	3,522.56	13.75	48,436.36
Total	4,786,160.89	11.57	337,614.02	8.87	2,995,513.30

Composite Average Remaining Life ... 8.87 *Years*

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
395.00 Power Operated Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *22* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2011	345,636.00	22.00	15,710.44	10.07	158,139.12
2015	3,257.24	22.00	148.05	12.86	1,904.12
2018	19,634.12	22.00	892.44	15.16	13,533.42
2022	64,677.17	22.00	2,939.82	18.47	54,298.53
2023	3,895.80	22.00	177.08	19.33	3,423.48
Total	437,100.33	22.00	19,867.84	11.64	231,298.68

Composite Average Remaining Life ... 11.64 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
354.20 Structures - Collection

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *43* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2026	465,513.27	43.00	10,825.97	42.75	462,845.91
Total	465,513.27	43.00	10,825.97	42.75	462,845.91

Composite Average Remaining Life ... *42.75 Years*

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
354.30 Structures - SPP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1964	699,951.35	55.00	12,726.38	18.80	239,258.29
1969	27,685.26	55.00	503.37	20.98	10,560.43
1972	5,390.11	55.00	98.00	22.32	2,187.12
1979	312,467.50	55.00	5,681.22	25.54	145,086.80
1980	1,925,421.49	55.00	35,007.64	26.01	910,563.99
1981	1,006,124.74	55.00	18,293.16	26.49	484,525.68
1992	367,539.24	55.00	6,682.53	31.98	213,739.39
1999	101,094.83	55.00	1,838.09	35.79	65,788.17
2005	55,968.06	55.00	1,017.60	39.31	40,001.07
2010	464,545.22	55.00	8,446.27	42.47	358,723.83
2012	94,838.48	55.00	1,724.33	43.81	75,540.34
2013	22,305,947.27	55.00	405,562.40	44.49	18,044,591.32
2014	8,206,912.04	55.00	149,216.48	45.19	6,743,411.83
2016	592,801.05	55.00	10,778.19	46.63	502,606.17
2018	792,190.90	55.00	14,403.46	48.13	693,227.68
2023	9,247.84	55.00	168.14	52.22	8,780.13
Total	36,968,125.38	55.00	672,147.27	42.46	28,538,592.23

Composite Average Remaining Life ... 42.46 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1964	535,164.61	55.00	9,730.26	18.80	182,930.67
1965	1,945,016.40	55.00	35,363.91	19.23	680,093.53
1982	12,187,003.00	55.00	221,581.72	26.97	5,975,285.02
1993	445,465.16	55.00	8,099.36	32.51	263,326.96
1994	220,388.44	55.00	4,007.06	33.04	132,411.29
1995	91,800.02	55.00	1,669.09	33.58	56,051.92
2007	156,375.15	55.00	2,843.18	40.54	115,274.93
2011	840,813.68	55.00	15,287.51	43.13	659,414.72
2016	14,574.90	55.00	265.00	46.63	12,357.32
2017	164,519.97	55.00	2,991.27	47.37	141,707.77
2019	360,662.79	55.00	6,557.50	48.91	320,699.76
2022	54,845.32	55.00	997.19	51.36	51,210.81
2023	236,710.97	55.00	4,303.83	52.22	224,739.21
2024	9,360.58	55.00	170.19	53.11	9,038.22
2025	5,735.27	55.00	104.28	54.03	5,634.26
Total	17,268,436.26	55.00	313,971.35	28.12	8,830,176.38

Composite Average Remaining Life ... 28.12 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
354.70 Structures - General

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1966	149,324.09	55.00	2,714.98	19.66	53,389.36
1982	1,245,413.24	55.00	22,643.86	26.97	610,625.85
2003	634,129.87	55.00	11,529.63	38.11	439,348.36
2011	1,029,041.52	55.00	18,709.83	43.13	807,033.87
2012	723,884.30	55.00	13,161.52	43.81	576,585.24
2013	2,174,732.42	55.00	39,540.56	44.49	1,759,268.83
2015	123,299.61	55.00	2,241.81	45.90	102,909.95
2016	137,968.40	55.00	2,508.51	46.63	116,976.46
2020	9,169.51	55.00	166.72	49.70	8,286.09
2021	1,055,309.84	55.00	19,187.44	50.52	969,292.00
2023	54,934.10	55.00	998.80	52.22	52,155.78
2024	58,548.84	55.00	1,064.52	53.11	56,532.53
2025	30,537.24	55.00	555.22	54.03	29,999.42
2026	321,511.39	55.00	5,845.66	54.76	320,080.47
Total	7,747,804.37	55.00	140,869.07	41.90	5,902,484.20

Composite Average Remaining Life ... 41.90 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
355.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1999	15,782.30	35.00	450.92	16.22	7,315.10
2000	52,360.25	35.00	1,496.00	16.72	25,011.20
2001	346,845.16	35.00	9,909.83	17.23	170,699.17
2005	41,623.25	35.00	1,189.23	19.37	23,029.78
2010	15,509.83	35.00	443.14	22.34	9,898.38
2013	621,166.53	35.00	17,747.57	24.31	431,416.73
2014	40,215.83	35.00	1,149.02	25.00	28,726.42
2016	74,060.67	35.00	2,116.01	26.44	55,949.51
2018	28,901.95	35.00	825.77	27.96	23,091.94
2021	63,989.80	35.00	1,828.28	30.41	55,604.58
2023	11,610.76	35.00	331.74	32.16	10,670.05
Total	1,312,066.33	35.00	37,487.51	22.45	841,412.86

Composite Average Remaining Life ... 22.45 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
360.10 Collection Sewers - Force Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1964	17,896.31	75.00	238.62	22.29	5,317.76
1969	43,735.32	75.00	583.14	25.55	14,900.41
1979	1,160,481.90	75.00	15,473.09	32.77	507,054.72
1980	3,297,197.01	75.00	43,962.63	33.54	1,474,454.40
2005	120,689.76	75.00	1,609.20	54.85	88,264.17
2010	48,159.59	75.00	642.13	59.52	38,218.71
2013	2,816,323.60	75.00	37,550.98	62.37	2,341,930.98
2016	85,454.40	75.00	1,139.39	65.24	74,338.93
2018	197,446.89	75.00	2,632.63	67.18	176,851.26
2023	76,315.55	75.00	1,017.54	72.05	73,315.61
2024	435,613.23	75.00	5,808.18	73.03	424,185.99
2025	135,260.74	75.00	1,803.48	74.02	133,485.61
2026	3,606.01	75.00	48.08	74.75	3,594.18
Total	8,438,180.31	75.00	112,509.07	47.60	5,355,912.72

Composite Average Remaining Life ... 47.60 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *80* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1928	3,659,730.83	80.00	45,746.60	12.52	572,922.95
1935	4,043,628.97	80.00	50,545.33	14.72	743,874.42
1945	1,716,839.87	80.00	21,460.48	18.66	400,521.78
1954	1,190,614.61	80.00	14,882.67	23.13	344,287.52
1955	3,535,209.08	80.00	44,190.08	23.68	1,046,495.73
1960	5,237,070.83	80.00	65,463.34	26.57	1,739,648.41
1963	1,032,624.70	80.00	12,907.80	28.42	366,891.15
1964	2,084,731.91	80.00	26,059.13	29.06	757,264.41
1965	194,550.90	80.00	2,431.88	29.70	72,229.18
1967	444,593.48	80.00	5,557.41	31.01	172,318.26
1970	1,796,091.52	80.00	22,451.13	33.03	741,525.29
1972	271,646.53	80.00	3,395.58	34.41	116,853.00
1973	77,889.70	80.00	973.62	35.12	34,189.40
1974	3,489.31	80.00	43.62	35.82	1,562.55
1979	14,522,884.05	80.00	181,535.92	39.47	7,165,662.21
1980	24,728,037.13	80.00	309,100.25	40.22	12,432,975.17
1985	51,977.75	80.00	649.72	44.06	28,626.17
1986	92,212.03	80.00	1,152.65	44.84	51,688.88
1991	110,558.78	80.00	1,381.98	48.85	67,511.43
1993	843,689.70	80.00	10,546.11	50.49	532,508.55
1994	469,999.79	80.00	5,874.99	51.32	301,511.34
1997	195,966.37	80.00	2,449.58	53.84	131,876.06
1999	76,223.03	80.00	952.79	55.54	52,913.77
2000	295,906.92	80.00	3,698.83	56.39	208,585.27
2001	37,611.80	80.00	470.15	57.26	26,918.70
2002	705,534.65	80.00	8,819.18	58.12	512,586.19
2003	94,213.48	80.00	1,177.67	58.99	69,472.70

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
361.10 Collection Sewers - Gravity Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *80* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2004	360,149.25	80.00	4,501.86	59.87	269,507.79
2005	111,335.04	80.00	1,391.69	60.75	84,540.25
2006	283,698.03	80.00	3,546.22	61.63	218,551.37
2007	5,701,256.57	80.00	71,265.66	62.52	4,455,233.74
2008	119,917.19	80.00	1,498.96	63.41	95,043.41
2009	235,006.28	80.00	2,937.58	64.30	188,893.06
2010	245,497.14	80.00	3,068.71	65.20	200,081.37
2011	17,426.86	80.00	217.84	66.10	14,399.36
2012	3,757,198.00	80.00	46,964.94	67.01	3,147,040.12
2013	391,690.44	80.00	4,896.13	67.92	332,530.57
2014	4,327,571.65	80.00	54,094.61	68.83	3,723,276.90
2015	19,800.81	80.00	247.51	69.74	17,262.33
2016	567,003.53	80.00	7,087.54	70.66	500,819.22
2018	466,078.66	80.00	5,825.98	72.51	422,435.64
2019	113,357.36	80.00	1,416.97	73.44	104,056.18
2020	192,757.46	80.00	2,409.47	74.37	179,183.96
2021	285,015.06	80.00	3,562.69	75.30	268,267.86
2022	351,121.63	80.00	4,389.02	76.23	334,594.40
2023	276,230.51	80.00	3,452.88	77.17	266,465.57
2024	211,201.17	80.00	2,640.01	78.11	206,216.29
2025	126,662.93	80.00	1,583.29	79.06	125,167.23
2026	1,904,722.05	80.00	23,809.01	79.76	1,899,097.73
Total	87,578,225.34	80.00	1,094,727.05	41.79	45,746,084.81

Composite Average Remaining Life ... 41.79 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1928	133,710.10	50.00	2,674.20	0.50	1,337.10
1935	143,048.75	50.00	2,860.98	1.69	4,837.14
1945	184,416.98	50.00	3,688.34	3.71	13,682.27
1954	139,649.55	50.00	2,792.99	5.80	16,197.20
1955	406,874.57	50.00	8,137.49	6.05	49,238.64
1960	620,032.65	50.00	12,400.65	7.38	91,499.41
1963	109,170.67	50.00	2,183.41	8.24	17,986.37
1964	318,117.18	50.00	6,362.34	8.54	54,307.48
1965	26,023.94	50.00	520.48	8.84	4,601.04
1967	40,642.73	50.00	812.85	9.47	7,696.25
1970	280,176.33	50.00	5,603.53	10.46	58,632.55
1972	6,427.30	50.00	128.55	11.17	1,435.32
1973	13,196.73	50.00	263.93	11.53	3,043.05
1979	2,334,507.57	50.00	46,690.15	13.91	649,440.34
1980	3,844,980.20	50.00	76,899.61	14.34	1,102,946.61
1985	33,652.99	50.00	673.06	16.69	11,232.53
1986	9,040.67	50.00	180.81	17.20	3,109.47
1991	15,507.41	50.00	310.15	19.96	6,190.16
1993	123,674.96	50.00	2,473.50	21.17	52,373.61
1994	54,666.35	50.00	1,093.33	21.81	23,841.89
1997	33,687.36	50.00	673.75	23.81	16,042.03
1999	14,805.92	50.00	296.12	25.24	7,472.73
2000	45,581.84	50.00	911.64	25.98	23,680.43
2001	30,843.66	50.00	616.87	26.73	16,491.60
2002	99,255.18	50.00	1,985.10	27.51	54,611.96
2003	478,015.52	50.00	9,560.31	28.31	270,611.60
2004	701,316.92	50.00	14,026.34	29.12	408,425.76

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2005	38,617.47	50.00	772.35	29.95	23,130.96
2006	57,803.61	50.00	1,156.07	30.80	35,602.80
2007	3,028.11	50.00	60.56	31.66	1,917.43
2008	78,067.52	50.00	1,561.35	32.54	50,807.41
2009	11,484.84	50.00	229.70	33.44	7,680.18
2010	56,286.45	50.00	1,125.73	34.35	38,664.40
2011	336,347.96	50.00	6,726.96	35.27	237,256.99
2012	485,107.23	50.00	9,702.15	36.21	351,271.70
2014	13,493.58	50.00	269.87	38.11	10,285.00
2016	103,973.53	50.00	2,079.47	40.05	83,287.28
2018	62,427.35	50.00	1,248.55	42.02	52,464.26
2019	62,386.01	50.00	1,247.72	43.01	53,666.16
2020	16,501.98	50.00	330.04	44.01	14,523.66
2021	140,858.75	50.00	2,817.18	45.00	126,780.17
2022	219,114.43	50.00	4,382.29	46.00	201,589.46
2023	49,274.81	50.00	985.50	47.00	46,318.58
2024	88,498.50	50.00	1,769.97	48.00	84,958.63
2025	36,190.85	50.00	723.82	49.00	35,467.04
2026	88,456.60	50.00	1,769.13	49.75	88,014.31
Total	12,188,943.61	50.00	243,778.89	18.52	4,514,650.93

Composite Average Remaining Life ... 18.52 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *47* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1930	480,909.09	0.00	0.00	0.00	0.00
1935	522,751.85	0.00	0.00	0.00	0.00
1945	458,036.62	0.00	0.00	0.00	0.00
1954	96,464.54	47.00	2,052.44	1.81	3,705.10
1955	648,154.76	47.00	13,790.56	2.05	28,338.65
1960	794,402.51	47.00	16,902.22	3.32	56,091.29
1965	15,574.52	47.00	331.37	4.62	1,530.16
1967	3,852.54	47.00	81.97	5.16	422.87
1969	86,379.66	47.00	1,837.87	5.73	10,524.82
1970	119,995.04	47.00	2,553.09	6.03	15,395.06
1972	1,340.33	47.00	28.52	6.68	190.41
1973	4,535.78	47.00	96.51	7.02	677.80
1979	22,011.66	47.00	468.33	9.49	4,442.19
1980	4,280,810.23	47.00	91,081.30	9.96	907,572.20
1985	678.10	47.00	14.43	12.66	182.71
1986	3,707.82	47.00	78.89	13.26	1,046.17
1991	6,163.77	47.00	131.14	16.51	2,164.68
1993	68,141.29	47.00	1,449.82	17.91	25,968.88
1994	88,345.28	47.00	1,879.69	18.64	35,028.83
1997	11,301.22	47.00	240.45	20.88	5,021.47
1999	17,040.81	47.00	362.57	22.44	8,137.81
2000	70,731.12	47.00	1,504.92	23.24	34,977.13
2001	52,786.09	47.00	1,123.11	24.05	27,010.83
2002	397,464.40	47.00	8,456.71	24.87	210,309.77
2003	75,462.02	47.00	1,605.58	25.70	41,261.01
2004	56,313.50	47.00	1,198.16	26.54	31,797.32
2005	36,525.88	47.00	777.15	27.39	21,284.81

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *47* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2006	38,253.05	47.00	813.90	28.25	22,991.06
2007	108,196.33	47.00	2,302.06	29.12	67,033.72
2008	36,645.06	47.00	779.68	30.00	23,388.90
2009	58,606.84	47.00	1,246.96	30.89	38,513.16
2010	27,392.23	47.00	582.81	31.78	18,523.10
2011	70,781.47	47.00	1,505.99	32.69	49,226.17
2012	1,689,273.07	47.00	35,942.07	33.60	1,207,637.36
2014	375,750.83	47.00	7,994.72	35.45	283,391.24
2016	56,799.63	47.00	1,208.51	37.32	45,105.74
2018	20,414.61	47.00	434.35	39.22	17,036.67
2019	134,103.49	47.00	2,853.27	40.18	114,646.44
2020	45,555.44	47.00	969.27	41.14	39,878.78
2021	266,038.28	47.00	5,660.40	42.11	238,360.90
2022	121,944.26	47.00	2,594.57	43.08	111,777.27
2024	87,931.63	47.00	1,870.89	45.03	84,255.19
2025	237,539.53	47.00	5,054.05	46.02	232,566.92
2026	427,364.27	47.00	9,092.88	46.75	425,123.44
Total	12,222,470.45	43.80	228,953.19	19.62	4,492,538.05

Composite Average Remaining Life ... 19.62 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
364.00 Flow Measuring Devices

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *15* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1999	176,385.00	15.00	11,758.97	2.97	34,919.77
2012	40,821.83	15.00	2,721.45	6.09	16,572.91
2023	10,799.01	15.00	719.93	12.10	8,712.87
2024	9,612.38	15.00	640.82	13.03	8,352.80
Total	237,618.22	15.00	15,841.17	4.33	68,558.35

Composite Average Remaining Life ... 4.33 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
371.00 Pumping Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *30* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1964	123,714.28	0.00	0.00	0.00	0.00
1969	1,824.48	30.00	60.82	1.11	67.50
1972	60,840.93	30.00	2,028.03	2.11	4,276.70
1981	884,159.75	30.00	29,471.93	5.13	151,136.59
1999	893,423.90	30.00	29,780.73	12.09	360,147.67
2004	17,335.45	30.00	577.85	14.47	8,364.20
2005	38,798.00	30.00	1,293.26	14.99	19,380.33
2009	135,111.34	30.00	4,503.70	17.17	77,311.36
2010	163,449.79	30.00	5,448.31	17.75	96,707.22
2011	466,202.88	30.00	15,540.06	18.35	285,153.97
2013	2,872,618.00	30.00	95,753.73	19.60	1,877,083.32
2015	52,568.43	30.00	1,752.28	20.93	36,680.90
2016	282,877.29	30.00	9,429.22	21.63	203,962.27
2018	301,478.47	30.00	10,049.26	23.09	232,049.36
2019	49,268.16	30.00	1,642.27	23.86	39,182.06
2023	20,940.17	30.00	698.00	27.19	18,976.56
2024	310,141.87	30.00	10,338.04	28.09	290,395.66
2025	5,480.38	30.00	182.68	29.03	5,302.62
2026	126,952.89	30.00	4,231.75	29.75	125,902.93
Total	6,807,186.46	28.42	222,781.94	17.20	3,832,081.19

Composite Average Remaining Life ... 17.20 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
380.00 Treatment Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1966	213,635.97	35.00	6,103.88	2.60	15,892.00
1982	7,725,812.23	35.00	220,737.48	6.92	1,526,809.89
1991	233,282.30	35.00	6,665.21	10.06	67,036.99
1992	47,180.60	35.00	1,348.02	10.46	14,101.39
1993	2,248,806.62	35.00	64,251.61	10.88	698,860.90
1998	544,670.39	35.00	15,562.01	13.18	205,032.50
2000	562,184.45	35.00	16,062.41	14.21	228,234.34
2011	915,917.18	35.00	26,169.06	21.34	558,330.40
2014	3,865,333.08	35.00	110,438.08	23.74	2,622,322.06
2016	33,546.66	35.00	958.48	25.46	24,400.35
2018	20,102.13	35.00	574.35	27.25	15,651.87
2019	7,243,570.50	35.00	206,959.14	28.18	5,831,200.57
2020	212,077.51	35.00	6,059.36	29.12	176,423.00
2021	198,436.04	35.00	5,669.60	30.07	170,488.55
2022	350,543.67	35.00	10,015.53	31.04	310,867.15
2023	29,624.43	35.00	846.41	32.02	27,099.61
2024	621,499.51	35.00	17,757.13	33.01	586,083.28
2025	240,369.14	35.00	6,867.69	34.00	233,506.83
2026	327,424.13	35.00	9,354.97	34.75	325,085.11
Total	25,634,016.54	35.00	732,400.42	18.62	13,637,426.78

Composite Average Remaining Life ... 18.62 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
382.00 Outfall Sewer Lines

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1965	73,525.14	50.00	1,470.50	5.99	8,803.60
Total	73,525.14	50.00	1,470.50	5.99	8,803.60

Composite Average Remaining Life ... 5.99 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
389.10 Other Plant - Intangibles
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2026	445,666.70	20.00	22,283.34	19.75	440,095.88
Total	445,666.70	20.00	22,283.34	19.75	440,095.88

Composite Average Remaining Life ... 19.75 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
391.00 Transportation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *14* ***Survivor Curve:*** *L4*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2011	119,487.15	14.00	8,534.60	2.64	22,527.01
2014	13,147.84	14.00	939.11	3.35	3,146.93
2017	21,007.05	14.00	1,500.47	5.36	8,044.20
2018	31,168.11	14.00	2,226.24	6.20	13,798.79
2019	27,488.89	14.00	1,963.45	7.09	13,919.73
2020	28,863.43	14.00	2,061.63	8.03	16,553.74
2022	75,954.78	14.00	5,425.22	10.00	54,254.95
2023	68,311.66	14.00	4,879.29	11.00	53,673.78
2024	189,347.17	14.00	13,524.49	12.00	162,298.19
2025	99,173.31	14.00	7,083.65	13.00	92,089.66
Total	673,949.39	14.00	48,138.15	9.15	440,306.98

Composite Average Remaining Life ... 9.15 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
395.00 Power Operated Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *22* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1993	18,154.62	22.00	825.20	2.19	1,807.10
1997	39,291.32	22.00	1,785.94	3.38	6,037.29
2000	14,790.15	22.00	672.27	4.40	2,961.16
2001	2,322.53	22.00	105.57	4.79	505.52
2004	4,697.67	22.00	213.53	6.09	1,300.97
2011	22,500.91	22.00	1,022.75	10.07	10,294.86
2012	17,502.58	22.00	795.56	10.73	8,537.88
2015	35,730.49	22.00	1,624.08	12.86	20,887.39
2018	25,218.04	22.00	1,146.25	15.16	17,382.31
2019	7,634.66	22.00	347.02	15.97	5,540.91
2021	452,466.57	22.00	20,566.29	17.62	362,387.47
2023	11,478.29	22.00	521.73	19.33	10,086.68
Total	651,787.83	22.00	29,626.19	15.11	447,729.55

Composite Average Remaining Life ... 15.11 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.20 Structures - Collection

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *45* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2017	978,689.65	45.00	21,748.65	36.28	789,011.29
2018	1,919,016.11	45.00	42,644.78	37.23	1,587,620.54
2019	1,206,973.68	45.00	26,821.62	38.18	1,024,179.67
2020	173,289.36	45.00	3,850.87	39.15	150,748.91
2021	221,520.46	45.00	4,922.67	40.11	197,461.50
2022	2,201,394.21	45.00	48,919.85	41.08	2,009,769.66
2023	7,940,130.09	45.00	176,447.25	42.06	7,420,857.19
2024	29,592,499.04	45.00	657,610.78	43.04	28,300,423.53
2025	1,427,850.43	45.00	31,729.99	44.02	1,396,634.17
2026	149,872.80	45.00	3,330.51	44.75	149,052.12
Total	45,811,235.83	45.00	1,018,026.98	42.26	43,025,758.59

Composite Average Remaining Life ... 42.26 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.30 Structures - SPP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1960	2,307,540.06	55.00	41,955.24	17.10	717,313.39
1968	671,326.79	55.00	12,205.93	20.54	250,694.86
1970	60,405.27	55.00	1,098.28	21.42	23,528.11
1972	430,021.03	55.00	7,818.56	22.32	174,487.42
1990	89,924.53	55.00	1,634.99	30.95	50,596.50
1995	131,932.60	55.00	2,398.77	33.58	80,556.35
1996	344,568.73	55.00	6,264.88	34.12	213,787.56
2000	105,072.37	55.00	1,910.41	36.36	69,462.27
2004	244,354.55	55.00	4,442.81	38.70	171,952.72
2005	52,725.90	55.00	958.65	39.31	37,683.86
2006	2,611,533.23	55.00	47,482.39	39.92	1,895,648.00
2011	7,145.91	55.00	129.93	43.13	5,604.24
2012	7,147.63	55.00	129.96	43.81	5,693.20
2013	148,319.26	55.00	2,696.71	44.49	119,984.16
2014	10,489,746.72	55.00	190,722.54	45.19	8,619,159.28
2015	40,952.90	55.00	744.60	45.90	34,180.65
2017	762,725.81	55.00	13,867.73	47.37	656,966.91
2018	1,526,953.41	55.00	27,762.77	48.13	1,336,201.12
2019	446,541.64	55.00	8,118.93	48.91	397,062.85
2020	2,544,665.64	55.00	46,266.62	49.70	2,299,504.85
2021	237,091.40	55.00	4,310.75	50.52	217,766.18
2023	2,377,007.71	55.00	43,218.29	52.22	2,256,789.49
2024	193,229.75	55.00	3,513.27	53.11	186,575.28
2025	11,393.77	55.00	207.16	54.03	11,193.10

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.30 Structures - SPP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	25,842,326.61	55.00	469,860.16	42.21	19,832,392.36

Composite Average Remaining Life ... 42.21 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1960	10,599,624.45	55.00	192,720.31	17.10	3,294,960.14
1972	12,693,053.48	55.00	230,782.63	22.32	5,150,394.88
1975	17,981,926.22	55.00	326,943.89	23.68	7,741,806.19
1985	1,204,742.75	55.00	21,904.40	28.43	622,690.65
1993	12,736.38	55.00	231.57	32.51	7,528.83
1994	101,865.06	55.00	1,852.09	33.04	61,201.41
1995	8,797,962.75	55.00	159,962.85	33.58	5,371,923.26
1996	2,958,647.48	55.00	53,793.55	34.12	1,835,691.90
1999	75,887.27	55.00	1,379.77	35.79	49,384.17
2001	236,542.84	55.00	4,300.78	36.94	158,849.26
2003	1,461,646.93	55.00	26,575.38	38.11	1,012,682.43
2004	367,499.67	55.00	6,681.81	38.70	258,610.16
2006	131,140.18	55.00	2,384.37	39.92	95,191.44
2007	18,890.83	55.00	343.47	40.54	13,925.74
2008	402,043.27	55.00	7,309.87	41.18	300,997.35
2009	16,621.70	55.00	302.21	41.82	12,638.22
2010	12,094,530.43	55.00	219,900.40	42.47	9,339,448.66
2011	393,025.03	55.00	7,145.90	43.13	308,232.96
2012	282,267.24	55.00	5,132.13	43.81	224,830.30
2013	8,325.00	55.00	151.36	44.49	6,734.58
2014	16,814,574.82	55.00	305,719.33	45.19	13,816,110.39
2015	5,371,118.78	55.00	97,656.64	45.90	4,482,914.16
2016	19,818,007.39	55.00	360,327.16	46.63	16,802,690.85
2017	3,090,389.28	55.00	56,188.86	47.37	2,661,878.58
2018	101,683.42	55.00	1,848.79	48.13	88,980.78
2019	265,878.40	55.00	4,834.15	48.91	236,417.90
2020	1,060,026.32	55.00	19,273.19	49.70	957,900.18

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2021	16,913,734.53	55.00	307,522.23	50.52	15,535,103.46
2022	975,108.52	55.00	17,729.23	51.36	910,489.63
2023	37,310.78	55.00	678.38	52.22	35,423.77
2024	30,884.14	55.00	561.53	53.11	29,820.55
2025	2,525,732.72	55.00	45,922.38	54.03	2,481,249.63
Total	136,843,428.06	55.00	2,488,060.60	37.74	93,906,702.38

Composite Average Remaining Life ... 37.74 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.70 Structures - General

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2025	484,749.65	35.00	13,849.99	34.00	470,921.23
2026	96,151.66	35.00	2,747.19	34.75	95,464.69
Total	580,901.31	35.00	16,597.18	34.13	566,385.92

Composite Average Remaining Life ... 34.13 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
355.00 Power Generation Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1991	21,067.56	35.00	601.93	12.58	7,571.90
2002	19,740.16	35.00	564.00	17.74	10,006.56
2004	38,295.54	35.00	1,094.16	18.81	20,583.17
2012	403,177.35	35.00	11,519.32	23.63	272,250.52
2015	426,122.43	35.00	12,174.89	25.71	313,038.45
2020	22,037.01	35.00	629.63	29.57	18,620.72
2021	1,986.71	35.00	56.76	30.41	1,726.37
2024	2,289,043.09	35.00	65,401.05	33.08	2,163,452.13
2025	911,327.11	35.00	26,037.85	34.02	885,894.21
Total	4,132,796.96	35.00	118,079.59	31.28	3,693,144.04

Composite Average Remaining Life ... 31.28 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
360.10 Collection Sewers - Force Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 75 *Survivor Curve:* R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1955	1,723.96	75.00	22.99	17.11	393.31
1960	16,628.35	75.00	221.71	19.87	4,405.24
1972	229,941.50	75.00	3,065.89	27.63	84,703.13
1989	4,559.85	75.00	60.80	40.76	2,478.15
1995	331,943.06	75.00	4,425.91	45.87	203,027.39
1996	179,711.97	75.00	2,396.16	46.75	112,009.13
2004	32,001.90	75.00	426.69	53.93	23,011.30
2015	1,167,492.55	75.00	15,566.57	64.28	1,000,641.12
2018	135,609.28	75.00	1,808.12	67.18	121,463.92
2019	37,065.08	75.00	494.20	68.15	33,678.68
2020	831,693.39	75.00	11,089.24	69.12	766,492.43
2021	671,057.48	75.00	8,947.43	70.10	627,171.13
2022	4,423,907.61	75.00	58,985.43	71.07	4,192,256.59
2023	6,483,158.15	75.00	86,442.11	72.05	6,228,306.88
2024	2,966,901.55	75.00	39,558.69	73.03	2,889,072.23
2025	379,722.63	75.00	5,062.97	74.02	374,739.23
2026	445,382.35	75.00	5,938.43	74.75	443,920.69
Total	18,338,500.66	75.00	244,513.33	69.97	17,107,770.54

Composite Average Remaining Life ... 69.97 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 *Survivor Curve:* R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1938	830,561.02	80.00	10,382.01	15.79	163,948.05
1945	209,289.99	80.00	2,616.12	18.66	48,825.29
1950	874,467.55	80.00	10,930.84	21.04	229,975.30
1955	16,911,738.35	80.00	211,396.58	23.68	5,006,227.81
1959	55,932,742.64	80.00	699,158.79	25.98	18,162,829.44
1960	1,041,337.25	80.00	13,016.71	26.57	345,911.05
1962	11,497,602.29	80.00	143,719.93	27.80	3,995,473.27
1963	27,050,424.53	80.00	338,130.07	28.42	9,611,005.23
1965	637,057.30	80.00	7,963.21	29.70	236,514.57
1968	1,803,375.51	80.00	22,542.18	31.67	713,937.36
1970	750,435.53	80.00	9,380.44	33.03	309,821.03
1972	15,282,310.53	80.00	191,028.75	34.41	6,573,924.80
1973	516,617.72	80.00	6,457.72	35.12	226,767.49
1974	456,497.65	80.00	5,706.22	35.82	204,423.86
1975	2,129,620.96	80.00	26,620.24	36.54	972,710.22
1976	35,420,494.20	80.00	442,755.87	37.26	16,498,019.20
1977	313,602.19	80.00	3,920.02	37.99	148,941.14
1978	817,918.21	80.00	10,223.97	38.73	395,981.13
1979	863,351.27	80.00	10,791.88	39.47	425,981.75
1980	1,405,922.57	80.00	17,574.02	40.22	706,881.84
1981	663,024.98	80.00	8,287.81	40.98	339,618.59
1982	495,204.32	80.00	6,190.05	41.74	258,365.57
1983	364,763.64	80.00	4,559.54	42.51	193,804.68
1984	635,581.74	80.00	7,944.77	43.28	343,828.56
1985	1,569,722.38	80.00	19,621.52	44.06	864,507.34
1986	739,019.73	80.00	9,237.74	44.84	414,252.88
1987	685,857.56	80.00	8,573.21	45.63	391,224.03

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *80* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1988	274,996.83	80.00	3,437.46	46.43	159,604.61
1989	24,414,968.71	80.00	305,186.90	47.23	14,414,759.88
1990	2,838,192.47	80.00	35,477.38	48.04	1,704,308.12
1991	1,099,801.91	80.00	13,747.51	48.85	671,581.19
1992	2,100,462.25	80.00	26,255.76	49.67	1,304,069.82
1993	357,693.93	80.00	4,471.17	50.49	225,764.37
1994	940,964.93	80.00	11,762.05	51.32	603,641.97
1995	2,274,642.99	80.00	28,433.02	52.15	1,482,887.27
1996	3,455,645.24	80.00	43,195.54	52.99	2,289,071.69
1997	220,280.02	80.00	2,753.50	53.84	148,237.99
1998	1,442,588.21	80.00	18,032.34	54.68	986,076.16
1999	9,402,942.66	80.00	117,536.70	55.54	6,527,490.70
2000	300,740.85	80.00	3,759.26	56.39	211,992.71
2001	543,162.58	80.00	6,789.53	57.26	388,740.53
2002	156,821.04	80.00	1,960.26	58.12	113,933.88
2003	19,507.62	80.00	243.85	58.99	14,384.85
2004	1,783,494.75	80.00	22,293.67	59.87	1,334,629.26
2005	1,336,211.08	80.00	16,702.63	60.75	1,014,627.68
2006	1,123,230.86	80.00	14,040.38	61.63	865,299.06
2007	4,880,294.97	80.00	61,003.64	62.52	3,813,695.20
2008	2,338,800.25	80.00	29,234.98	63.41	1,853,675.38
2009	9,130,773.66	80.00	114,134.59	64.30	7,339,121.91
2010	3,734,506.60	80.00	46,681.30	65.20	3,043,641.19
2011	3,661,088.26	80.00	45,763.57	66.10	3,025,061.48
2012	259,542.90	80.00	3,244.28	67.01	217,393.90
2013	436,202.05	80.00	5,452.52	67.92	370,319.26
2014	1,121,179.57	80.00	14,014.73	68.83	964,619.96

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.10 Collection Sewers - Gravity Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *80* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2015	16,171.16	80.00	202.14	69.74	14,098.00
2016	12,842,596.99	80.00	160,532.35	70.66	11,343,526.30
2017	6,868,439.71	80.00	85,855.44	71.58	6,145,936.18
2018	3,791,548.60	80.00	47,394.32	72.51	3,436,512.75
2019	37,902,547.70	80.00	473,781.51	73.44	34,792,575.22
2020	26,281,035.44	80.00	328,512.71	74.37	24,430,389.77
2021	11,227,901.33	80.00	140,348.67	75.30	10,568,160.89
2022	11,295,734.80	80.00	141,196.59	76.23	10,764,046.72
2023	44,284,062.78	80.00	553,550.40	77.17	42,718,590.03
2024	15,014,785.35	80.00	187,684.69	78.11	14,660,398.31
2025	4,399,150.03	80.00	54,989.34	79.06	4,347,202.72
2026	2,523,557.33	80.00	31,544.44	79.76	2,516,105.69
Total	435,994,810.02	80.00	5,449,931.31	52.96	288,609,874.10

Composite Average Remaining Life ... 52.96 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1918	189,918.09	0.00	0.00	0.00	0.00
1938	261,534.17	50.00	5,230.68	2.27	11,855.13
1945	40,518.07	50.00	810.36	3.71	3,006.12
1950	100,074.45	50.00	2,001.49	4.83	9,674.95
1955	82,726.66	50.00	1,654.53	6.05	10,011.31
1959	10,494,376.01	50.00	209,887.53	7.10	1,490,864.27
1960	124,555.30	50.00	2,491.11	7.38	18,380.86
1963	1,812,629.12	50.00	36,252.58	8.24	298,638.94
1965	115,635.29	50.00	2,312.71	8.84	20,444.37
1968	62,038.28	50.00	1,240.77	9.79	12,150.31
1970	131,321.85	50.00	2,626.44	10.46	27,481.75
1972	1,404,731.78	50.00	28,094.64	11.17	313,700.07
1973	300,190.76	50.00	6,003.82	11.53	69,221.35
1974	144,987.82	50.00	2,899.76	11.90	34,513.20
1975	428,436.23	50.00	8,568.73	12.28	105,256.59
1976	1,215,479.78	50.00	24,309.60	12.68	308,125.00
1977	135,560.41	50.00	2,711.21	13.08	35,452.17
1978	364,965.93	50.00	7,299.32	13.49	98,449.83
1979	376,125.77	50.00	7,522.52	13.91	104,635.02
1980	344,412.54	50.00	6,888.25	14.34	98,795.99
1981	303,688.95	50.00	6,073.78	14.79	89,814.53
1982	241,057.69	50.00	4,821.15	15.24	73,492.32
1983	167,114.66	50.00	3,342.29	15.71	52,515.79
1984	193,060.10	50.00	3,861.20	16.19	62,528.42
1985	425,192.73	50.00	8,503.86	16.69	141,918.69
1986	362,216.26	50.00	7,244.33	17.20	124,581.38
1987	250,909.37	50.00	5,018.19	17.72	88,919.89

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1988	96,370.85	50.00	1,927.42	18.26	35,187.82
1989	1,479,781.40	50.00	29,595.63	18.81	556,645.13
1990	1,029,249.93	50.00	20,585.00	19.38	398,847.38
1991	480,472.42	50.00	9,609.45	19.96	191,792.24
1992	446,600.62	50.00	8,932.01	20.56	183,624.37
1993	106,797.45	50.00	2,135.95	21.17	45,226.35
1994	172,835.40	50.00	3,456.71	21.81	75,379.52
1995	493,533.25	50.00	9,870.67	22.46	221,664.25
1996	766,509.25	50.00	15,330.19	23.12	354,504.30
1997	99,505.36	50.00	1,990.11	23.81	47,384.77
1998	667,520.45	50.00	13,350.41	24.51	327,269.01
1999	377,678.17	50.00	7,553.56	25.24	190,618.73
2001	40,259.96	50.00	805.20	26.73	21,526.34
2004	391,007.58	50.00	7,820.15	29.12	227,710.99
2005	622,643.87	50.00	12,452.88	29.95	372,949.07
2006	485,358.57	50.00	9,707.17	30.80	298,945.39
2007	261,467.05	50.00	5,229.34	31.66	165,563.57
2008	302,648.38	50.00	6,052.97	32.54	196,967.72
2010	100,529.53	50.00	2,010.59	34.35	69,055.95
2011	258,377.89	50.00	5,167.56	35.27	182,257.57
2012	100,204.33	50.00	2,004.09	36.21	72,559.10
2013	16,187.81	50.00	323.76	37.15	12,028.51
2014	101,869.73	50.00	2,037.39	38.11	77,646.55
2016	19,978.82	50.00	399.58	40.05	16,003.90
2019	46,757.47	50.00	935.15	43.01	40,222.06
2020	883,018.67	50.00	17,660.37	44.01	777,158.80
2021	904,384.36	50.00	18,087.69	45.00	813,992.76

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	2,203,270.79	50.00	44,065.42	46.00	2,027,051.16
2023	4,897,474.91	50.00	97,949.50	47.00	4,603,651.99
2024	4,306,744.15	50.00	86,134.89	48.00	4,134,477.62
2025	3,606,835.96	50.00	72,136.72	49.00	3,534,699.66
2026	363,103.51	50.00	7,262.07	49.75	361,287.97
Total	46,202,435.96	49.15	920,250.42	26.45	24,338,328.82

Composite Average Remaining Life ... 26.45 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1938	76,616.59	0.00	0.00	0.00	0.00
1945	17,164.93	0.00	0.00	0.00	0.00
1950	47,257.01	47.00	1,005.47	0.89	897.04
1955	42,660.23	47.00	907.67	2.05	1,865.19
1960	68,935.11	47.00	1,466.71	3.32	4,867.38
1965	72,940.33	47.00	1,551.93	4.62	7,166.21
1970	101,520.98	47.00	2,160.03	6.03	13,024.89
1972	554,714.71	47.00	11,802.47	6.68	78,804.74
1973	112,239.24	47.00	2,388.07	7.02	16,772.25
1974	134,579.72	47.00	2,863.41	7.39	21,150.49
1975	321,584.50	47.00	6,842.24	7.77	53,146.30
1977	103,930.93	47.00	2,211.30	8.59	18,988.08
1978	274,245.12	47.00	5,835.02	9.03	52,666.47
1979	293,381.70	47.00	6,242.18	9.49	59,207.54
1980	259,895.36	47.00	5,529.70	9.96	55,100.27
1981	229,688.47	47.00	4,887.00	10.46	51,137.49
1982	186,261.51	47.00	3,963.02	10.98	43,528.44
1983	130,342.56	47.00	2,773.25	11.53	31,963.73
1984	155,082.09	47.00	3,299.63	12.09	39,877.01
1985	319,524.19	47.00	6,798.40	12.66	86,094.60
1986	291,115.81	47.00	6,193.97	13.26	82,138.88
1987	202,235.98	47.00	4,302.90	13.88	59,708.02
1988	69,614.03	47.00	1,481.15	14.51	21,489.54
1989	738,012.93	47.00	15,702.44	15.16	238,014.21
1990	823,511.80	47.00	17,521.57	15.82	277,243.18
1991	389,292.92	47.00	8,282.85	16.51	136,717.47
1992	526,941.07	47.00	11,211.54	17.20	192,859.44

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1994	65,806.31	47.00	1,400.14	18.64	26,092.15
1995	99,511.37	47.00	2,117.27	19.37	41,016.10
1996	263,604.24	47.00	5,608.61	20.12	112,854.63
1997	86,566.61	47.00	1,841.85	20.88	38,464.16
1998	569,975.56	47.00	12,127.17	21.66	262,641.17
1999	164,439.65	47.00	3,498.72	22.44	78,527.91
2000	12,020.36	47.00	255.75	23.24	5,944.17
2004	187,594.21	47.00	3,991.38	26.54	105,924.74
2005	500,514.32	47.00	10,649.27	27.39	291,665.91
2006	404,791.84	47.00	8,612.61	28.25	243,290.28
2007	228,197.39	47.00	4,855.28	29.12	141,381.12
2008	64,791.58	47.00	1,378.55	30.00	41,353.56
2009	79,394.84	47.00	1,689.26	30.89	52,173.88
2011	170,657.79	47.00	3,631.03	32.69	118,686.86
2012	79,794.79	47.00	1,697.77	33.60	57,044.16
2013	16,068.50	47.00	341.88	34.52	11,801.77
2014	58,373.42	47.00	1,241.99	35.45	44,025.23
2016	134,300.59	47.00	2,857.47	37.32	106,650.82
2017	192,243.38	47.00	4,090.29	38.27	156,537.41
2018	201,939.17	47.00	4,296.59	39.22	168,524.90
2019	302,286.40	47.00	6,431.64	40.18	258,427.72
2020	1,410,345.50	47.00	30,007.43	41.14	1,234,602.60
2021	1,065,301.66	47.00	22,666.05	42.11	954,472.65
2022	1,077,472.67	47.00	22,925.01	43.08	987,639.35
2023	1,319,188.54	47.00	28,067.91	44.06	1,236,577.65
2024	2,094,346.98	47.00	44,560.69	45.03	2,006,781.96
2025	2,591,908.63	47.00	55,147.13	46.02	2,537,650.13

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *47* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2026	866,689.04	47.00	18,440.24	46.75	862,144.66
Total	20,851,415.16	45.29	441,652.89	31.31	13,827,326.52

Composite Average Remaining Life ... 31.31 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
364.00 Flow Measuring Devices

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *15* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1960	34,668.83	0.00	0.00	0.00	0.00
1996	10,667.26	15.00	711.15	2.35	1,672.91
1998	11,518.92	15.00	767.93	2.76	2,118.86
2008	91,182.72	15.00	6,078.83	5.12	31,138.66
2010	110,716.42	15.00	7,381.08	5.61	41,402.41
2011	38,771.91	15.00	2,584.79	5.85	15,115.60
2013	175,978.36	15.00	11,731.86	6.34	74,416.63
2015	40,642.36	15.00	2,709.48	6.93	18,778.24
2016	442,654.44	15.00	29,510.22	7.29	215,270.88
2017	160,544.63	15.00	10,702.95	7.73	82,723.39
2018	43,907.33	15.00	2,927.15	8.25	24,145.09
2019	859,930.78	15.00	57,328.57	8.86	508,159.55
2020	72,459.17	15.00	4,830.60	9.58	46,266.05
2022	98,651.86	15.00	6,576.77	11.21	73,752.26
2023	407,174.77	15.00	27,144.92	12.10	328,517.27
2024	8,460.60	15.00	564.04	13.03	7,351.94
Total	2,607,930.36	14.06	171,550.33	8.57	1,470,829.76

Composite Average Remaining Life ... 8.57 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
371.00 Pumping Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *30* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1991	10,027.80	30.00	334.26	8.76	2,927.51
1996	856,360.73	30.00	28,545.30	10.78	307,817.93
1997	12,226.37	30.00	407.54	11.21	4,569.12
2001	71,769.06	30.00	2,392.30	13.01	31,132.28
2002	52,690.66	30.00	1,756.35	13.49	23,691.72
2004	389,243.47	30.00	12,974.76	14.47	187,806.42
2005	8,668.00	30.00	288.93	14.99	4,329.83
2006	398,382.04	30.00	13,279.37	15.51	205,953.45
2007	12,859.49	30.00	428.65	16.05	6,878.71
2008	17,742.79	30.00	591.43	16.60	9,817.26
2009	461,050.47	30.00	15,368.32	17.17	263,815.29
2010	698,004.66	30.00	23,266.77	17.75	412,983.64
2011	127,953.09	30.00	4,265.09	18.35	78,262.78
2012	1,566,147.49	30.00	52,204.81	18.97	990,148.25
2013	412,015.32	30.00	13,733.82	19.60	269,227.26
2014	92,372.97	30.00	3,079.09	20.26	62,377.03
2015	3,927,144.55	30.00	130,904.54	20.93	2,740,260.27
2016	1,197,536.65	30.00	39,917.80	21.63	863,456.71
2017	84,978.93	30.00	2,832.63	22.35	63,307.95
2018	1,328,557.83	30.00	44,285.17	23.09	1,022,597.06
2019	443,360.52	30.00	14,778.65	23.86	352,596.42
2020	1,326,944.91	30.00	44,231.40	24.65	1,090,296.44
2021	319,888.96	30.00	10,662.94	25.47	271,554.54
2022	640,066.64	30.00	21,335.51	26.31	561,409.40
2023	2,436,296.47	30.00	81,209.71	27.19	2,207,839.03
2024	622,498.07	30.00	20,749.89	28.09	582,864.67
2025	1,134,075.44	30.00	37,802.44	29.03	1,097,290.32

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
371.00 Pumping Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 30 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2026	98,397.27	30.00	3,279.90	29.75	97,583.48
Total	18,747,260.65	30.00	624,907.38	22.10	13,812,794.74

Composite Average Remaining Life ... 22.10 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
380.00 Treatment Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1960	260,606.75	35.00	7,445.91	1.12	8,342.87
1968	465,692.81	35.00	13,305.51	3.11	41,347.21
1975	14,848,934.14	35.00	424,255.23	4.91	2,083,466.86
1987	1,460,340.34	35.00	41,724.01	8.56	357,277.35
1988	439,507.72	35.00	12,557.36	8.92	112,019.96
1990	25,892.61	35.00	739.79	9.67	7,151.59
1994	141,124.62	35.00	4,032.13	11.31	45,590.02
1995	5,087,628.21	35.00	145,360.80	11.75	1,708,017.63
1996	35,060.20	35.00	1,001.72	12.21	12,230.28
1997	1,939.99	35.00	55.43	12.68	703.06
1999	1,059,178.42	35.00	30,262.24	13.68	414,088.94
2001	1,632,563.30	35.00	46,644.66	14.75	688,170.36
2002	197,050.46	35.00	5,630.01	15.32	86,226.71
2003	90,863.40	35.00	2,596.10	15.90	41,275.15
2004	3,930,521.58	35.00	112,300.61	16.50	1,853,253.48
2006	11,493.78	35.00	328.39	17.77	5,836.57
2007	293,993.33	35.00	8,399.81	18.44	154,899.48
2008	1,125,032.45	35.00	32,143.78	19.13	614,934.94
2009	55,295.02	35.00	1,579.86	19.84	31,346.99
2010	24,184.39	35.00	690.98	20.58	14,218.52
2012	120,552.85	35.00	3,444.37	22.12	76,176.86
2013	49,210.92	35.00	1,406.03	22.92	32,225.49
2014	29,066.88	35.00	830.48	23.74	19,719.57
2015	11,561,638.46	35.00	330,332.50	24.59	8,123,316.98
2016	4,103,563.72	35.00	117,244.67	25.46	2,984,749.36
2017	2,376,529.46	35.00	67,900.84	26.35	1,788,858.09
2018	1,075,375.13	35.00	30,725.00	27.25	837,306.01

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
380.00 Treatment Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2019	167,383.81	35.00	4,782.39	28.18	134,746.89
2020	9,821,269.17	35.00	280,607.67	29.12	8,170,115.38
2021	2,378,818.71	35.00	67,966.24	30.07	2,043,788.81
2022	15,609,329.18	35.00	445,980.80	31.04	13,842,576.91
2023	3,973,130.94	35.00	113,518.02	32.02	3,634,509.77
2024	841,201.19	35.00	24,034.32	33.01	793,265.22
2025	2,761,699.73	35.00	78,905.70	34.00	2,682,855.80
2026	404,489.00	35.00	11,556.83	34.75	401,599.46
Total	86,460,162.67	35.00	2,470,290.19	21.80	53,846,208.60

Composite Average Remaining Life ... 21.80 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
381.00 Plant Sewers

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1995	874,635.54	50.00	17,492.70	22.10	386,644.32
1999	17,293.00	50.00	345.86	25.26	8,735.33
2002	27,056.54	50.00	541.13	27.73	15,006.13
2003	603,123.96	50.00	12,062.47	28.58	344,689.63
2004	48,787.57	50.00	975.75	29.43	28,715.44
2016	5,448.80	50.00	108.98	40.31	4,392.78
Total	1,576,345.41	50.00	31,526.89	25.00	788,183.63

Composite Average Remaining Life ... 25.00 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
382.00 Outfall Sewer Lines

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2017	12,867.84	50.00	257.36	41.26	10,618.49
2018	174,944.46	50.00	3,498.89	42.22	147,705.94
2023	311,592.01	50.00	6,231.84	47.06	293,244.45
Total	499,404.31	50.00	9,988.08	45.21	451,568.88

Composite Average Remaining Life ... 45.21 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
389.10 Other Plant - Intangibles

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2003	732.57	20.00	36.63	3.99	146.32
2013	4,140,223.53	20.00	207,011.19	8.60	1,779,935.92
2019	2,529.74	20.00	126.49	13.20	1,669.02
2020	6,201,677.71	20.00	310,083.91	14.11	4,374,718.21
2022	430,060.25	20.00	21,503.01	16.02	344,498.83
2024	38,327.02	20.00	1,916.35	18.00	34,496.32
Total	10,813,550.82	20.00	540,677.58	12.09	6,535,464.62

Composite Average Remaining Life ... 12.09 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
391.00 Transportation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *14* ***Survivor Curve:*** *L4*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1995	13,240.08	0.00	0.00	0.00	0.00
2003	25,581.36	14.00	1,827.20	1.17	2,136.42
2004	6,788.48	14.00	484.88	1.32	641.26
2006	99,532.58	14.00	7,109.31	1.67	11,884.79
2007	154,794.96	14.00	11,056.53	1.87	20,685.71
2008	150,540.49	14.00	10,752.65	2.09	22,419.74
2009	220,230.56	14.00	15,730.40	2.30	36,173.06
2010	253,581.52	14.00	18,112.56	2.49	45,113.99
2011	91,691.79	14.00	6,549.27	2.64	17,286.73
2012	283,568.72	14.00	20,254.45	2.78	56,331.42
2013	590,227.54	14.00	42,158.15	2.99	126,177.42
2014	555,945.44	14.00	39,709.49	3.35	133,065.12
2015	697,815.92	14.00	49,842.86	3.89	194,060.59
2016	185,576.14	14.00	13,255.14	4.58	60,759.11
2017	174,855.63	14.00	12,489.40	5.36	66,957.23
2018	1,449,339.70	14.00	103,521.92	6.20	641,653.51
2019	840,388.91	14.00	60,026.42	7.09	425,553.30
2021	89,577.43	14.00	6,398.24	9.01	57,619.81
2022	869,888.42	14.00	62,133.48	10.00	621,366.50
2023	2,612,625.59	14.00	186,611.88	11.00	2,052,789.94
2024	815,335.23	14.00	58,236.91	12.00	698,861.41
2025	244,677.74	14.00	17,476.59	13.00	227,201.15
2026	64,293.00	14.00	4,592.25	13.75	63,144.94
Total	10,490,097.23	13.39	748,329.97	7.46	5,581,883.14

Composite Average Remaining Life ... 7.46 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
395.00 Power Operated Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 22 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2007	13,810.00	22.00	627.72	7.64	4,795.33
2008	48,270.00	22.00	2,194.05	8.21	18,008.48
2009	246,063.00	22.00	11,184.48	8.80	98,455.10
2010	440,226.19	22.00	20,009.92	9.42	188,531.70
2011	45,902.54	22.00	2,086.44	10.07	21,001.83
2012	282,853.13	22.00	12,856.73	10.73	137,977.65
2013	157,521.76	22.00	7,159.95	11.42	81,774.54
2014	2,683.87	22.00	121.99	12.13	1,479.81
2015	7,815.84	22.00	355.26	12.86	4,569.00
2016	15,995.00	22.00	727.03	13.61	9,895.40
2017	29,847.33	22.00	1,356.67	14.38	19,506.87
2018	44,891.21	22.00	2,040.47	15.16	30,942.65
2020	9,692.97	22.00	440.58	16.79	7,395.70
2021	563,825.38	22.00	25,627.96	17.62	451,576.46
2023	271,216.17	22.00	12,327.79	19.33	238,334.45
2024	129,069.73	22.00	5,866.70	20.21	118,566.38
Total	2,309,684.12	22.00	104,983.75	13.65	1,432,811.35

Composite Average Remaining Life ... 13.65 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
354.20 Structures - Collection

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *45* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1998	179,114.78	45.00	3,980.33	19.82	78,876.84
2015	20,723.35	45.00	460.52	34.40	15,840.20
2026	4,999.50	45.00	111.10	44.75	4,972.12
Total	204,837.63	45.00	4,551.95	21.90	99,689.16

Composite Average Remaining Life ... 21.90 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
354.30 Structures - SPP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	6,131,131.15	55.00	111,475.03	51.36	5,724,830.82
Total	6,131,131.15	55.00	111,475.03	51.36	5,724,830.82

Composite Average Remaining Life ... 51.36 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1959	166,934.69	55.00	3,035.17	16.68	50,616.62
1972	189,956.32	55.00	3,453.75	22.32	77,077.60
1992	711,430.30	55.00	12,935.09	31.98	413,726.37
2015	420,063.69	55.00	7,637.52	45.90	350,599.11
2016	12,643.06	55.00	229.87	46.63	10,719.41
2017	6,064.56	55.00	110.26	47.37	5,223.65
2019	23,691.33	55.00	430.75	48.91	21,066.23
2020	30,932.25	55.00	562.40	49.70	27,952.14
Total	1,561,716.20	55.00	28,394.82	33.70	956,981.14

Composite Average Remaining Life ... 33.70 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
354.70 Structures - General

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1992	41,830.74	35.00	1,195.16	11.66	13,937.50
2026	3,000.00	35.00	85.71	34.75	2,978.57
Total	44,830.74	35.00	1,280.88	13.21	16,916.07

Composite Average Remaining Life ... 13.21 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
355.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	126,050.56	35.00	3,601.43	31.28	112,642.98
Total	126,050.56	35.00	3,601.43	31.28	112,642.98

Composite Average Remaining Life ... 31.28 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
360.10 Collection Sewers - Force Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	286,282.87	75.00	3,817.10	71.07	271,292.11
2026	2,999.32	75.00	39.99	74.75	2,989.48
Total	289,282.19	75.00	3,857.10	71.11	274,281.59

Composite Average Remaining Life ... *71.11 Years*

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
361.10 Collection Sewers - Gravity Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *80* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1950	1,372,465.48	80.00	17,155.81	21.04	360,943.25
1998	5,642,424.03	80.00	70,530.25	54.68	3,856,859.36
2015	2,275,826.00	80.00	28,447.81	69.74	1,984,062.79
2016	1,187,359.26	80.00	14,841.98	70.66	1,048,763.03
2017	225,296.02	80.00	2,816.20	71.58	201,596.73
2018	652,900.70	80.00	8,161.25	72.51	591,763.90
2019	126,115.97	80.00	1,576.45	73.44	115,767.93
2020	230,285.96	80.00	2,878.57	74.37	214,069.79
2022	113,811.39	80.00	1,422.64	76.23	108,454.31
2023	407,261.77	80.00	5,090.77	77.17	392,864.78
2026	17,000.00	80.00	212.50	79.76	16,949.80
Total	12,250,746.58	80.00	153,134.23	58.07	8,892,095.67

Composite Average Remaining Life ... *58.07 Years*

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1950	208,347.61	50.00	4,166.95	4.83	20,142.53
1998	21,535.87	50.00	430.72	24.51	10,558.51
2014	175,888.74	50.00	3,517.78	38.11	134,064.88
2026	14,400.00	50.00	288.00	49.75	14,328.00
Total	420,172.22	50.00	8,403.44	21.31	179,093.93

Composite Average Remaining Life ... 21.31 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *47* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2026	12,000.00	47.00	255.32	46.75	11,937.08
Total	12,000.00	47.00	255.32	46.75	11,937.08

Composite Average Remaining Life ... 46.75 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
364.00 Flow Measuring Devices

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *15* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1992	10,431.53	15.00	695.43	1.60	1,113.28
1996	7,328.14	15.00	488.54	2.35	1,149.25
2013	182,290.73	15.00	12,152.68	6.34	77,085.96
2014	129,463.37	15.00	8,630.87	6.62	57,123.30
2019	81,758.85	15.00	5,450.58	8.86	48,313.82
2020	46,933.08	15.00	3,128.86	9.58	29,967.34
2022	7,896.07	15.00	526.40	11.21	5,903.11
Total	466,101.77	15.00	31,073.37	7.10	220,656.06

Composite Average Remaining Life ... 7.10 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
370.00 Receiving Wells

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	181,962.65	50.00	3,639.25	46.08	167,697.66
Total	181,962.65	50.00	3,639.25	46.08	167,697.66

Composite Average Remaining Life ... 46.08 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
371.00 Pumping Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *30* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1972	25,595.17	30.00	853.17	2.11	1,799.16
2017	36,104.80	30.00	1,203.49	22.35	26,897.50
2021	73,180.23	30.00	2,439.34	25.47	62,122.88
2022	1,035,423.47	30.00	34,514.04	26.31	908,181.17
2023	7,785.78	30.00	259.53	27.19	7,055.69
2026	4,749.85	30.00	158.33	29.75	4,710.57
Total	1,182,839.30	30.00	39,427.89	25.64	1,010,766.97

Composite Average Remaining Life ... 25.64 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
380.00 Treatment Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1959	41,356.56	35.00	1,181.62	0.87	1,026.19
1972	34,945.44	35.00	998.44	4.12	4,113.49
1992	221,391.42	35.00	6,325.47	10.46	66,169.69
2015	245,066.89	35.00	7,001.91	24.59	172,186.32
2016	66,842.89	35.00	1,909.80	25.46	48,618.54
2017	170,961.67	35.00	4,884.62	26.35	128,686.04
2018	19,018.12	35.00	543.37	27.25	14,807.84
2019	34,131.43	35.00	975.18	28.18	27,476.40
2022	803,017.05	35.00	22,943.34	31.04	712,127.03
2026	12,249.99	35.00	350.00	34.75	12,162.48
Total	1,648,981.46	35.00	47,113.75	25.20	1,187,374.03

Composite Average Remaining Life ... 25.20 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
381.00 Plant Sewers

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1992	257,749.35	50.00	5,154.98	19.86	102,357.53
2004	217,164.26	50.00	4,343.28	29.43	127,818.78
2022	813,969.13	50.00	16,279.37	46.08	750,157.88
Total	1,288,882.74	50.00	25,777.64	38.03	980,334.18

Composite Average Remaining Life ... 38.03 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
382.00 Outfall Sewer Lines

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	2,828.25	50.00	56.56	46.08	2,606.53
Total	2,828.25	50.00	56.56	46.08	2,606.53

Composite Average Remaining Life ... 46.08 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
389.10 Other Plant - Intangibles

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2019	11,607.90	20.00	580.40	13.20	7,658.42
Total	11,607.90	20.00	580.40	13.20	7,658.42

Composite Average Remaining Life ... 13.20 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
391.00 Transportation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *14* ***Survivor Curve:*** *L4*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1989	5,537.12	0.00	0.00	0.00	0.00
2008	14,834.85	14.00	1,059.61	2.09	2,209.33
2015	16,013.29	14.00	1,143.78	3.89	4,453.25
2022	11,253.85	14.00	803.83	10.00	8,038.69
Total	47,639.11	10.50	3,007.22	4.89	14,701.27

Composite Average Remaining Life ... 4.89 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
395.00 Power Operated Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2026
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *22* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1990	1,424.51	22.00	64.75	1.35	87.13
Total	1,424.51	22.00	64.75	1.35	87.13

Composite Average Remaining Life ... 1.35 Years

PAWC - Water Operations
Water Operations
303.35 Waste Handling

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *100* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1991	70,430.00	100.00	704.30	65.87	46,389.26
1992	84,595.17	100.00	845.95	66.76	56,476.40
Total	155,025.17	100.00	1,550.25	66.35	102,865.66

Composite Average Remaining Life ... 66.35 Years

PAWC - Water Operations
Water Operations
304.15 Other Water Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1905	20,000.00	0.00	0.00	0.00	0.00
1962	3,046.99	50.00	60.94	12.08	736.02
1965	40,502.68	50.00	810.05	13.19	10,685.28
1966	20,825.96	50.00	416.52	13.57	5,651.38
1967	270.30	50.00	5.41	13.95	75.41
1968	13,568.76	50.00	271.37	14.33	3,889.57
1969	631.00	50.00	12.62	14.72	185.77
1970	1,609.62	50.00	32.19	15.11	486.49
1971	11,357.68	50.00	227.15	15.51	3,522.53
1972	19,891.30	50.00	397.83	15.91	6,328.05
1973	102.13	50.00	2.04	16.31	33.31
1974	11,058.14	50.00	221.16	16.72	3,697.34
1975	3,360.08	50.00	67.20	17.13	1,151.16
1977	2,198.00	50.00	43.96	17.97	789.88
1978	1,550.08	50.00	31.00	18.39	570.26
1979	66,916.71	50.00	1,338.33	18.83	25,195.15
1980	50,476.77	50.00	1,009.53	19.26	19,446.00
1981	175,270.37	50.00	3,505.40	19.70	69,071.47
1982	5,146.13	50.00	102.92	20.15	2,074.07
1983	23,321.00	50.00	466.42	20.60	9,610.57
1984	402.00	50.00	8.04	21.06	169.36
1985	61,463.99	50.00	1,229.28	21.53	26,465.51
1986	65,149.35	50.00	1,302.99	22.00	28,666.73
1987	194.55	50.00	3.89	22.48	87.46
1988	5,314.89	50.00	106.30	22.96	2,440.96
1989	105,571.50	50.00	2,111.43	23.46	49,523.59
1990	167,225.90	50.00	3,344.51	23.95	80,113.54

PAWC - Water Operations
Water Operations
304.15 Other Water Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1991	515,689.12	50.00	10,313.77	24.46	252,272.20
1992	303,462.34	50.00	6,069.24	24.97	151,569.23
1993	140,489.27	50.00	2,809.78	25.49	71,634.68
1994	1,280,944.74	50.00	25,618.87	26.02	666,710.62
1995	208,091.31	50.00	4,161.82	26.56	110,546.10
1996	372,613.59	50.00	7,452.26	27.11	202,017.86
1997	26,226.70	50.00	524.53	27.66	14,510.37
1998	254,653.48	50.00	5,093.06	28.23	143,764.90
1999	142,608.54	50.00	2,852.17	28.80	82,145.73
2000	129,853.55	50.00	2,597.07	29.38	76,313.23
2001	1,161.48	50.00	23.23	29.98	696.37
2002	707,111.64	50.00	14,142.22	30.58	432,482.21
2003	1,932,009.71	50.00	38,640.15	31.19	1,205,374.83
2004	254,159.61	50.00	5,083.19	31.82	161,745.34
2005	974,587.19	50.00	19,491.72	32.46	632,616.37
2006	499,272.53	50.00	9,985.44	33.10	330,549.12
2007	1,551,026.95	50.00	31,020.51	33.76	1,047,327.19
2008	1,232,651.52	50.00	24,653.00	34.43	848,898.44
2009	228,603.44	50.00	4,572.06	35.12	160,561.06
2010	11,303,442.33	50.00	226,068.61	35.81	8,096,576.17
2011	250,029.38	50.00	5,000.58	36.52	182,644.85
2012	328,899.24	50.00	6,577.98	37.25	245,018.61
2013	2,948,687.90	50.00	58,973.70	37.99	2,240,165.22
2014	1,358,349.72	50.00	27,166.97	38.74	1,052,384.28
2015	863,430.65	50.00	17,268.59	39.50	682,180.22
2016	1,876,787.12	50.00	37,535.70	40.29	1,512,146.98
2017	1,914,619.65	50.00	38,292.35	41.08	1,573,142.56

PAWC - Water Operations
Water Operations
304.15 Other Water Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: ***50*** ***Survivor Curve:*** ***S0.5***

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2018	17,474,447.65	50.00	349,488.58	41.90	14,641,842.06
2019	3,311,981.47	50.00	66,239.56	42.72	2,830,007.38
2020	5,258,970.84	50.00	105,179.30	43.57	4,582,572.62
2021	5,208,379.09	50.00	104,167.47	44.43	4,628,310.67
2022	14,305,441.54	50.00	286,108.53	45.31	12,963,911.67
2023	22,362,828.43	50.00	447,256.09	46.21	20,667,191.52
2024	12,035,825.08	50.00	240,716.24	47.13	11,343,793.49
2025	11,014,913.92	50.00	220,298.04	48.06	10,587,749.05
Total	123,448,676.60	49.19	2,468,570.90	42.44	104,772,040.04

Composite Average Remaining Life ... 42.44 Years

PAWC - Water Operations
Water Operations
304.21 Pumping Structures - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1962	15,878.73	75.00	211.72	31.36	6,640.08
1970	6,710.06	75.00	89.47	35.18	3,147.53
1990	1,277,952.17	75.00	17,039.37	46.18	786,811.45
1993	1,121,355.16	75.00	14,951.41	48.05	718,343.98
1994	88,730.90	75.00	1,183.08	48.68	57,595.27
1995	1,715,454.62	75.00	22,872.74	49.33	1,128,239.99
1997	4,494,042.69	75.00	59,920.59	50.64	3,034,544.87
1998	79,054.11	75.00	1,054.06	51.31	54,084.53
1999	4,650,691.72	75.00	62,009.25	51.99	3,223,896.55
2001	34,327.61	75.00	457.70	53.37	24,427.24
2003	2,358,291.93	75.00	31,443.90	54.79	1,722,698.50
2004	146,294.31	75.00	1,950.59	55.51	108,270.17
2005	11,236.00	75.00	149.81	56.24	8,425.36
2006	10,710.36	75.00	142.80	56.98	8,136.76
2007	29,310.29	75.00	390.80	57.73	22,559.60
2008	97,884.43	75.00	1,305.13	58.49	76,333.52
2012	23,869,584.52	75.00	318,261.25	61.62	19,612,280.78
2013	8,780,477.29	75.00	117,073.08	62.43	7,309,064.37
2014	3,788,366.02	75.00	50,511.57	63.25	3,195,092.71
2015	114,587.76	75.00	1,527.84	64.09	97,912.07
2017	3,006.40	75.00	40.09	65.78	2,636.92
2018	8,073.07	75.00	107.64	66.65	7,173.94
2019	130,266.72	75.00	1,736.89	67.52	117,278.41
2021	4,068,632.96	75.00	54,248.46	69.31	3,760,128.47
2023	1,168.86	75.00	15.58	71.15	1,108.91

PAWC - Water Operations
Water Operations
304.21 Pumping Structures - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	56,902,088.69	75.00	758,694.81	59.43	45,086,831.95

Composite Average Remaining Life ... 59.43 Years

PAWC - Water Operations
Water Operations
304.22 Pumping Structures - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1901	5,841.82	0.00	0.00	0.00	0.00
1904	1,656.55	0.00	0.00	0.00	0.00
1905	4,576.49	0.00	0.00	0.00	0.00
1906	5,412.26	0.00	0.00	0.00	0.00
1908	6,553.43	0.00	0.00	0.00	0.00
1909	7,477.68	0.00	0.00	0.00	0.00
1910	12,025.18	0.00	0.00	0.00	0.00
1911	14,042.67	0.00	0.00	0.00	0.00
1912	1,186.63	0.00	0.00	0.00	0.00
1915	1,030.51	0.00	0.00	0.00	0.00
1918	30,729.07	0.00	0.00	0.00	0.00
1919	3,285.16	0.00	0.00	0.00	0.00
1920	5,065.81	0.00	0.00	0.00	0.00
1921	589.43	0.00	0.00	0.00	0.00
1922	10,583.50	0.00	0.00	0.00	0.00
1923	7,456.73	0.00	0.00	0.00	0.00
1924	32,859.61	0.00	0.00	0.00	0.00
1925	142.50	0.00	0.00	0.00	0.00
1926	487.26	0.00	0.00	0.00	0.00
1927	863.05	0.00	0.00	0.00	0.00
1928	3,516.76	0.00	0.00	0.00	0.00
1929	12,727.23	0.00	0.00	0.00	0.00
1930	4,043.81	0.00	0.00	0.00	0.00
1931	7,583.10	0.00	0.00	0.00	0.00
1932	4,091.51	0.00	0.00	0.00	0.00
1933	31.03	0.00	0.00	0.00	0.00
1934	205.04	0.00	0.00	0.00	0.00

PAWC - Water Operations
Water Operations
304.22 Pumping Structures - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: **55** ***Survivor Curve:*** **R3**

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1935	2,181.02	55.00	39.65	0.50	19.83
1936	1,208.47	55.00	21.97	0.62	13.72
1937	934.92	55.00	17.00	0.84	14.26
1938	3,088.23	55.00	56.15	1.00	56.13
1939	2,936.64	55.00	53.39	1.21	64.71
1940	256.37	55.00	4.66	1.44	6.72
1941	426.22	55.00	7.75	1.68	13.01
1942	3,960.66	55.00	72.01	1.94	139.88
1943	65.66	55.00	1.19	2.17	2.59
1944	632.02	55.00	11.49	2.41	27.72
1945	1,391.94	55.00	25.31	2.66	67.35
1946	458.99	55.00	8.35	2.91	24.32
1947	9,849.69	55.00	179.09	3.17	567.85
1948	69,981.98	55.00	1,272.40	3.44	4,375.08
1949	2,182.09	55.00	39.67	3.69	146.37
1950	502.83	55.00	9.14	3.94	36.05
1951	30,036.64	55.00	546.12	4.20	2,292.67
1952	11,892.63	55.00	216.23	4.45	963.27
1953	28,685.21	55.00	521.55	4.72	2,462.84
1954	150,370.41	55.00	2,734.01	4.98	13,605.04
1955	122,038.47	55.00	2,218.88	5.23	11,614.33
1956	26,864.73	55.00	488.45	5.50	2,685.01
1957	15,965.08	55.00	290.27	5.77	1,673.46
1958	14,351.02	55.00	260.93	6.04	1,575.88
1959	28,185.43	55.00	512.46	6.33	3,241.58
1960	22,982.96	55.00	417.87	6.61	2,763.27
1961	77,621.92	55.00	1,411.31	6.91	9,752.81

PAWC - Water Operations
Water Operations
304.22 Pumping Structures - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: **55** ***Survivor Curve:*** **R3**

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1962	764.70	55.00	13.90	7.22	100.38
1963	49,553.58	55.00	900.97	7.54	6,794.27
1964	382,895.62	55.00	6,961.74	7.88	54,839.33
1965	28,459.92	55.00	517.45	8.22	4,255.59
1966	68,093.98	55.00	1,238.07	8.59	10,630.20
1967	97,629.18	55.00	1,775.08	8.96	15,911.23
1968	21,632.31	55.00	393.31	9.36	3,680.37
1969	115,270.36	55.00	2,095.82	9.77	20,470.58
1970	58,066.48	55.00	1,055.75	10.19	10,761.31
1971	131,023.64	55.00	2,382.25	10.64	25,339.97
1972	103,200.73	55.00	1,876.38	11.10	20,824.58
1973	58,897.24	55.00	1,070.86	11.58	12,397.21
1974	124,265.86	55.00	2,259.38	12.07	27,276.85
1975	103,208.46	55.00	1,876.52	12.58	23,612.63
1976	48,283.97	55.00	877.89	13.11	11,512.84
1977	31,616.36	55.00	574.84	13.66	7,853.48
1978	90,978.06	55.00	1,654.15	14.23	23,532.13
1979	66,769.29	55.00	1,213.99	14.81	17,974.77
1980	120,180.98	55.00	2,185.11	15.40	33,655.74
1981	248,439.56	55.00	4,517.08	16.01	72,324.33
1982	213,685.47	55.00	3,885.19	16.64	64,643.98
1983	147,087.28	55.00	2,674.31	17.28	46,212.44
1984	136,432.53	55.00	2,480.59	17.94	44,490.58
1985	953,727.67	55.00	17,340.50	18.60	322,606.16
1986	216,373.69	55.00	3,934.07	19.28	75,861.84
1987	1,117,433.37	55.00	20,316.97	19.98	405,905.72
1988	354,873.27	55.00	6,452.24	20.69	133,470.91

PAWC - Water Operations
Water Operations
304.22 Pumping Structures - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1989	819,879.51	55.00	14,906.90	21.40	319,080.73
1990	1,926,625.32	55.00	35,029.55	22.14	775,382.16
1991	294,397.18	55.00	5,352.68	22.88	122,448.97
1992	1,848,476.34	55.00	33,608.66	23.63	794,047.43
1993	1,463,314.62	55.00	26,605.72	24.39	648,897.57
1994	243,427.51	55.00	4,425.95	25.16	111,368.41
1995	637,438.12	55.00	11,589.78	25.95	300,703.65
1996	992,670.64	55.00	18,048.55	26.74	482,586.31
1997	754,369.67	55.00	13,715.81	27.54	377,712.11
1998	624,669.83	55.00	11,357.63	28.35	321,996.54
1999	660,921.33	55.00	12,016.75	29.17	350,551.81
2000	1,706,138.15	55.00	31,020.69	30.00	930,684.61
2001	794,513.61	55.00	14,445.70	30.84	445,518.37
2002	225,626.47	55.00	4,102.30	31.69	129,994.80
2003	3,783,308.96	55.00	68,787.42	32.54	2,238,534.75
2004	336,158.01	55.00	6,111.96	33.41	204,184.95
2005	304,164.60	55.00	5,530.26	34.28	189,577.50
2006	3,479,458.76	55.00	63,262.88	35.16	2,224,343.23
2007	3,816,541.06	55.00	69,391.64	36.05	2,501,442.55
2008	1,100,189.00	55.00	20,003.43	36.94	738,968.10
2009	18,910.36	55.00	343.82	37.84	13,012.02
2010	215,150.60	55.00	3,911.83	38.75	151,601.19
2011	497,543.40	55.00	9,046.24	39.67	358,871.10
2012	574,162.28	55.00	10,439.31	40.59	423,765.05
2013	3,315,957.15	55.00	60,290.12	41.52	2,503,346.43
2014	1,855,342.43	55.00	33,733.49	42.46	1,432,160.12
2015	816,045.29	55.00	14,837.18	43.40	643,863.44

PAWC - Water Operations
Water Operations
304.22 Pumping Structures - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2016	3,078,578.01	55.00	55,974.14	44.34	2,481,921.85
2017	596,454.65	55.00	10,844.63	45.29	491,159.95
2018	2,924,830.20	55.00	53,178.72	46.25	2,459,266.62
2019	142,272.05	55.00	2,586.76	47.20	122,104.67
2020	2,322,098.42	55.00	42,219.96	48.17	2,033,608.13
2021	6,088,150.85	55.00	110,693.63	49.13	5,438,823.56
2022	782,958.60	55.00	14,235.61	50.10	713,268.28
2023	9,740,769.56	55.00	177,104.87	51.08	9,046,197.88
2024	2,908,519.77	55.00	52,882.17	52.05	2,752,772.07
2025	13,936,240.07	55.00	253,386.14	53.03	13,438,036.85
2026	1,139,080.99	55.00	20,710.56	54.02	1,118,697.74
Total	82,667,312.98	42.52	1,499,695.18	40.93	61,385,646.63

Composite Average Remaining Life ... 40.93 Years

PAWC - Water Operations
Water Operations
304.31 Purification Buildings - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1900	690.28	0.00	0.00	0.00	0.00
1906	871.05	0.00	0.00	0.00	0.00
1910	955.96	0.00	0.00	0.00	0.00
1921	7,550.49	55.00	137.28	1.11	152.22
1924	65,855.77	55.00	1,197.38	1.89	2,257.25
1928	713.20	55.00	12.97	2.98	38.61
1930	44.14	55.00	0.80	3.53	2.83
1938	1,127.93	55.00	20.51	5.84	119.79
1951	429.84	55.00	7.82	9.90	77.39
1953	7,347.67	55.00	133.59	10.57	1,412.27
1954	63,503.27	55.00	1,154.60	10.91	12,595.07
1955	11,789.91	55.00	214.36	11.25	2,411.44
1958	1,894.04	55.00	34.44	12.29	423.37
1960	45.00	55.00	0.82	13.01	10.64
1961	26,097.98	55.00	474.51	13.37	6,345.43
1962	893.00	55.00	16.24	13.74	223.08
1963	541.00	55.00	9.84	14.11	138.80
1964	398.22	55.00	7.24	14.49	104.90
1965	321.42	55.00	5.84	14.87	86.88
1966	438.31	55.00	7.97	15.25	121.54
1967	22,777.88	55.00	414.14	15.64	6,477.31
1969	89,590.44	55.00	1,628.92	16.43	26,767.47
1970	358.00	55.00	6.51	16.84	109.59
1972	2,625.00	55.00	47.73	17.66	842.84
1973	6,119,638.13	55.00	111,266.16	18.08	2,011,598.56
1975	69,470.87	55.00	1,263.11	18.94	23,917.46
1976	3,042,618.84	55.00	55,320.35	19.37	1,071,699.26

PAWC - Water Operations
Water Operations
304.31 Purification Buildings - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1977	49,822.29	55.00	905.86	19.82	17,950.53
1978	89.00	55.00	1.62	20.27	32.79
1979	16,962.81	55.00	308.41	20.72	6,391.00
1980	10,568.86	55.00	192.16	21.19	4,070.95
1981	5,396.00	55.00	98.11	21.65	2,124.50
1982	364.13	55.00	6.62	22.13	146.52
1983	56,269.13	55.00	1,023.08	22.62	23,138.38
1984	44,668.70	55.00	812.16	23.11	18,767.99
1985	129,729.26	55.00	2,358.71	23.61	55,686.56
1986	56,314.64	55.00	1,023.90	24.12	24,692.21
1987	44,970.19	55.00	817.64	24.63	20,140.58
1988	6,104,219.17	55.00	110,985.81	25.16	2,792,170.49
1989	354,686.26	55.00	6,448.84	25.69	165,683.65
1990	18,290,076.26	55.00	332,546.86	26.24	8,724,406.58
1991	463,554.17	55.00	8,428.26	26.79	225,772.17
1992	10,159,569.23	55.00	184,719.45	27.35	5,051,741.61
1993	17,607,220.02	55.00	320,131.29	27.92	8,938,261.75
1994	594,840.73	55.00	10,815.29	28.50	308,270.13
1995	4,351,649.57	55.00	79,120.91	29.10	2,302,115.51
1996	404,065.68	55.00	7,346.65	29.70	218,194.50
1997	5,491,313.41	55.00	99,842.07	30.31	3,026,474.75
1998	141,383.91	55.00	2,570.62	30.94	79,533.38
1999	5,186,983.45	55.00	94,308.80	31.58	2,978,068.35
2000	2,036,497.32	55.00	37,027.23	32.23	1,193,320.98
2001	5,667,119.95	55.00	103,038.55	32.89	3,389,019.61
2002	747,232.76	55.00	13,586.05	33.57	456,028.20
2003	10,628,673.62	55.00	193,248.62	34.25	6,619,162.36

PAWC - Water Operations
Water Operations
304.31 Purification Buildings - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2004	1,361,185.65	55.00	24,748.83	34.95	865,072.65
2005	1,139,818.01	55.00	20,723.97	35.67	739,214.30
2006	16,555,339.22	55.00	301,006.19	36.40	10,956,236.25
2007	3,789,637.42	55.00	68,902.50	37.14	2,559,166.00
2008	1,016,921.02	55.00	18,489.47	37.90	700,691.27
2009	444,258.49	55.00	8,077.43	38.67	312,350.94
2010	4,933,534.34	55.00	89,700.63	39.46	3,539,325.49
2011	13,669,205.90	55.00	248,531.03	40.26	10,005,707.21
2012	49,857,456.27	55.00	906,499.27	41.08	37,235,938.14
2013	928,710.06	55.00	16,885.64	41.91	707,658.88
2014	2,457,866.32	55.00	44,688.48	42.75	1,910,627.46
2015	355,219.37	55.00	6,458.53	43.62	281,707.18
2016	1,590,034.14	55.00	28,909.71	44.50	1,286,372.62
2017	8,288,358.59	55.00	150,697.44	45.39	6,840,055.44
2018	38,454,880.52	55.00	699,179.69	46.30	32,369,860.95
2019	1,203,667.42	55.00	21,884.86	47.22	1,033,326.67
2020	253,889.24	55.00	4,616.17	48.15	222,280.94
2021	25,681,995.57	55.00	466,945.41	49.10	22,927,804.97
2022	22,470,854.74	55.00	408,561.02	50.06	20,453,630.66
2023	43,108,360.03	55.00	783,788.42	51.03	40,000,192.19
2024	4,422,427.36	55.00	80,407.78	52.02	4,182,477.52
2025	22,035,119.09	55.00	400,638.56	53.00	21,235,656.81
2026	6,550,768.35	55.00	119,104.89	54.00	6,431,733.26
2027	78,223,343.08	55.00	1,422,242.70	54.75	77,867,871.21

PAWC - Water Operations
Water Operations
304.31 Purification Buildings - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	446,975,678.36	52.88	8,126,785.29	43.62	354,474,259.05

Composite Average Remaining Life ... *43.62 Years*

PAWC - Water Operations
Water Operations
304.32 Purification Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 60 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1949	335.84	60.00	5.60	5.85	32.75
1951	2,352.20	60.00	39.20	6.39	250.59
1952	275.37	60.00	4.59	6.66	30.59
1953	896.75	60.00	14.95	6.95	103.81
1954	480.59	60.00	8.01	7.24	58.00
1955	36.20	60.00	0.60	7.54	4.55
1956	34.09	60.00	0.57	7.85	4.46
1957	191.80	60.00	3.20	8.17	26.11
1958	509.09	60.00	8.48	8.50	72.10
1959	47.25	60.00	0.79	8.84	6.96
1960	1,895.10	60.00	31.58	9.20	290.56
1961	229.22	60.00	3.82	9.57	36.56
1962	324.86	60.00	5.41	9.95	53.90
1963	507.11	60.00	8.45	10.35	87.51
1964	150.81	60.00	2.51	10.77	27.07
1965	130.84	60.00	2.18	11.20	24.42
1966	361.68	60.00	6.03	11.64	70.19
1967	14.97	60.00	0.25	12.11	3.02
1968	16.61	60.00	0.28	12.58	3.48
1969	6,463.94	60.00	107.73	13.08	1,408.75
1970	132.57	60.00	2.21	13.59	30.02
1971	1,563.19	60.00	26.05	14.11	367.69
1972	923,838.16	60.00	15,397.30	14.65	225,592.69
1973	8,034.18	60.00	133.90	15.21	2,036.53
1974	7,164.26	60.00	119.40	15.78	1,884.31
1975	194,365.07	60.00	3,239.42	16.36	53,011.80
1976	34,236.70	60.00	570.61	16.97	9,681.33

PAWC - Water Operations
Water Operations
304.32 Purification Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 60 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1977	1,187.06	60.00	19.78	17.58	347.84
1978	2,516.14	60.00	41.94	18.21	763.55
1979	9,548.18	60.00	159.14	18.85	2,999.84
1980	610.36	60.00	10.17	19.51	198.43
1981	22,141.40	60.00	369.02	20.17	7,443.42
1982	364,133.65	60.00	6,068.89	20.85	126,542.73
1983	77,614.65	60.00	1,293.58	21.54	27,866.76
1984	16,826.56	60.00	280.44	22.24	6,237.74
1985	402,268.42	60.00	6,704.47	22.96	153,913.92
1986	14,998.98	60.00	249.98	23.68	5,919.92
1987	23,576.56	60.00	392.94	24.41	9,593.13
1988	951,616.18	60.00	15,860.27	25.16	399,029.66
1989	2,214,166.43	60.00	36,902.77	25.91	956,288.49
1990	893,748.89	60.00	14,895.81	26.68	397,356.55
1991	1,015,158.70	60.00	16,919.31	27.45	464,434.62
1992	10,568.40	60.00	176.14	28.23	4,972.92
1993	1,502.06	60.00	25.03	29.02	726.56
1994	890,063.95	60.00	14,834.40	29.82	442,416.29
1995	1,280,476.04	60.00	21,341.26	30.63	653,745.96
1996	477,008.26	60.00	7,950.14	31.45	250,022.13
1997	1,595,296.44	60.00	26,588.27	32.28	858,148.02
1998	583,333.77	60.00	9,722.23	33.11	321,900.56
1999	1,734,191.18	60.00	28,903.18	33.95	981,272.51
2000	12,575.45	60.00	209.59	34.80	7,293.98
2001	2,001,872.81	60.00	33,364.54	35.66	1,189,747.42
2002	317,064.16	60.00	5,284.40	36.52	193,001.93
2003	402,090.26	60.00	6,701.50	37.40	250,611.61

PAWC - Water Operations
Water Operations
304.32 Purification Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *60* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2004	321,800.72	60.00	5,363.34	38.28	205,289.90
2005	87,081.58	60.00	1,451.36	39.16	56,838.39
2006	18,434.59	60.00	307.24	40.06	12,307.11
2007	245,523.87	60.00	4,092.06	40.96	167,599.48
2008	103,578.18	60.00	1,726.30	41.86	72,268.10
2009	746,951.23	60.00	12,449.18	42.78	532,532.94
2010	699,639.64	60.00	11,660.66	43.70	509,520.98
2011	2,005,601.03	60.00	33,426.68	44.62	1,491,482.89
2012	2,610,578.33	60.00	43,509.63	45.55	1,981,875.86
2013	3,109,379.27	60.00	51,822.98	46.49	2,409,041.50
2014	3,739,903.49	60.00	62,331.71	47.43	2,956,126.20
2015	424,655.20	60.00	7,077.59	48.37	342,353.12
2016	1,483,425.60	60.00	24,723.76	49.32	1,219,411.46
2017	2,192,310.04	60.00	36,538.49	50.27	1,836,970.01
2018	1,943,056.31	60.00	32,384.27	51.23	1,659,157.48
2019	1,882,895.81	60.00	31,381.59	52.20	1,637,978.84
2020	3,462,571.05	60.00	57,709.51	53.16	3,067,867.75
2021	2,979,199.52	60.00	49,653.32	54.13	2,687,716.87
2022	7,487,400.12	60.00	124,789.98	55.10	6,876,139.03
2023	10,959,821.41	60.00	182,663.66	56.08	10,243,063.08
2024	1,821,787.54	60.00	30,363.12	57.05	1,732,330.90
2025	9,731,000.83	60.00	162,183.32	58.03	9,412,109.25
2026	2,713,341.25	60.00	45,222.35	59.02	2,668,824.58
2027	2,717,103.15	60.00	45,285.04	59.75	2,705,956.78

PAWC - Water Operations
Water Operations
304.32 Purification Buildings - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *60* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	79,987,783.15	60.00	1,333,129.47	48.38	64,492,758.77

Composite Average Remaining Life ... 48.38 Years

PAWC - Water Operations
Water Operations
304.36 Waste Handling Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1991	10,728,292.17	55.00	195,059.87	26.79	5,225,170.97
1998	68,969.00	55.00	1,253.98	30.94	38,797.47
2000	122,317.58	55.00	2,223.96	32.23	71,674.11
2001	25,833.98	55.00	469.71	32.89	15,449.09
2003	4,063.71	55.00	73.89	34.25	2,530.73
2007	19,061.38	55.00	346.57	37.14	12,872.27
2010	29,348.23	55.00	533.60	39.46	21,054.47
2012	197,525.13	55.00	3,591.37	41.08	147,521.23
2013	129,535.29	55.00	2,355.19	41.91	98,703.35
2014	18,080.06	55.00	328.73	42.75	14,054.57
2016	167,667.01	55.00	3,048.49	44.50	135,646.30
2021	13,550,479.62	55.00	246,372.37	49.10	12,097,298.01
2023	3,380,408.50	55.00	61,461.98	51.03	3,136,676.73
Total	28,441,581.66	55.00	517,119.70	40.64	21,017,449.31

Composite Average Remaining Life ... 40.64 Years

PAWC - Water Operations
Water Operations
304.60 Office Buildings - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1986	1,193,234.40	55.00	21,695.16	28.43	616,742.37
1987	1,333,438.47	55.00	24,244.32	28.92	701,214.62
1988	66,300.97	55.00	1,205.47	29.42	35,467.55
1989	673,796.52	55.00	12,250.84	29.93	366,614.76
1990	53,021.27	55.00	964.02	30.43	29,338.68
1991	4,089.45	55.00	74.35	30.95	2,300.95
1992	18,335.02	55.00	333.36	31.46	10,488.48
1994	2,429.06	55.00	44.16	32.51	1,435.89
1995	69,619.62	55.00	1,265.81	33.04	41,828.07
1996	25,231.49	55.00	458.75	33.58	15,406.02
1997	109,992.96	55.00	1,999.87	34.12	68,245.10
1998	1,013.00	55.00	18.42	34.67	638.64
2001	62,892.80	55.00	1,143.50	36.36	41,577.79
2002	10,259.32	55.00	186.53	36.94	6,889.60
2003	73,531.37	55.00	1,336.93	37.52	50,156.54
2005	152,175.13	55.00	2,766.82	38.70	107,085.90
2006	268,253.78	55.00	4,877.34	39.31	191,724.34
2007	23,101.69	55.00	420.03	39.92	16,768.95
2008	107,200.39	55.00	1,949.10	40.54	79,024.82
2009	4,369.19	55.00	79.44	41.18	3,271.08
2010	30,818.46	55.00	560.34	41.82	23,432.65
2011	114,845.78	55.00	2,088.10	42.47	88,684.41
2012	143,420.45	55.00	2,607.64	43.13	112,478.61
2013	360,133.68	55.00	6,547.88	43.81	286,852.14
2014	82,708.84	55.00	1,503.80	44.49	66,908.04
2015	29,091.75	55.00	528.94	45.19	23,903.95
2016	107,280.37	55.00	1,950.55	45.90	89,539.76

PAWC - Water Operations
Water Operations
304.60 Office Buildings - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2017	95,983.57	55.00	1,745.15	46.63	81,379.64
2018	19,728,894.53	55.00	358,706.92	47.37	16,993,303.09
2019	1,662,367.46	55.00	30,224.84	48.13	1,454,698.78
2023	11,478.86	55.00	208.71	51.36	10,718.17
2025	2,409,664.54	55.00	43,812.05	53.11	2,326,680.21
Total	29,028,974.19	55.00	527,799.16	45.37	23,944,799.60

Composite Average Remaining Life ... 45.37 Years

PAWC - Water Operations
Water Operations
304.61 Office Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1924	845.00	0.00	0.00	0.00	0.00
1926	215.00	0.00	0.00	0.00	0.00
1958	13.02	50.00	0.26	3.85	1.00
1960	48.73	50.00	0.97	4.36	4.25
1961	21.19	50.00	0.42	4.62	1.96
1963	33,045.39	50.00	660.91	5.15	3,402.22
1964	1,079.50	50.00	21.59	5.42	117.01
1965	11,957.68	50.00	239.15	5.70	1,362.90
1966	1,125.43	50.00	22.51	5.99	134.75
1967	48,178.36	50.00	963.57	6.29	6,056.06
1968	57,455.89	50.00	1,149.12	6.60	7,578.48
1969	1,273.22	50.00	25.46	6.92	176.17
1970	11,121.74	50.00	222.43	7.26	1,613.88
1971	9,019.90	50.00	180.40	7.61	1,372.52
1972	61,461.67	50.00	1,229.23	7.98	9,806.00
1973	1,636.52	50.00	32.73	8.36	273.74
1975	6,526.85	50.00	130.54	9.19	1,199.60
1976	45,687.00	50.00	913.74	9.63	8,799.98
1977	13,240.50	50.00	264.81	10.09	2,672.11
1979	28,098.53	50.00	561.97	11.07	6,219.79
1980	1.10	50.00	0.02	11.58	0.25
1981	45,810.00	50.00	916.20	12.12	11,105.18
1982	361,045.49	50.00	7,220.91	12.68	91,527.64
1983	32,369.00	50.00	647.38	13.25	8,576.45
1984	902.06	50.00	18.04	13.84	249.66
1985	72,985.69	50.00	1,459.71	14.45	21,086.43
1986	351,447.26	50.00	7,028.94	15.07	105,923.64

PAWC - Water Operations
Water Operations
304.61 Office Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1987	596,055.80	50.00	11,921.11	15.71	187,277.61
1988	612,729.15	50.00	12,254.58	16.37	200,550.23
1989	449,868.60	50.00	8,997.37	17.04	153,277.58
1990	143,314.05	50.00	2,866.28	17.72	50,792.38
1991	33,727.65	50.00	674.55	18.42	12,424.80
1992	148,265.09	50.00	2,965.30	19.13	56,729.92
1993	12,902.30	50.00	258.05	19.86	5,123.77
1994	325,416.52	50.00	6,508.33	20.59	134,027.28
1995	58,927.46	50.00	1,178.55	21.34	25,153.02
1996	47,370.53	50.00	947.41	22.10	20,940.78
1997	35,194.64	50.00	703.89	22.88	16,101.76
1998	15,964.58	50.00	319.29	23.66	7,553.95
1999	61,011.45	50.00	1,220.23	24.45	29,837.52
2000	754,379.80	50.00	15,087.59	25.26	381,065.15
2001	49,302.15	50.00	986.04	26.07	25,707.71
2002	6,125.14	50.00	122.50	26.90	3,294.88
2003	84,890.14	50.00	1,697.80	27.73	47,081.87
2004	37,729.39	50.00	754.59	28.58	21,562.61
2005	346,446.58	50.00	6,928.93	29.43	203,911.91
2006	226,824.45	50.00	4,536.49	30.29	137,418.98
2007	90,382.39	50.00	1,807.65	31.16	56,333.04
2008	234,555.06	50.00	4,691.10	32.04	150,322.58
2009	101,931.15	50.00	2,038.62	32.93	67,138.12
2010	61,124.75	50.00	1,222.49	33.83	41,357.08
2011	121,514.52	50.00	2,430.29	34.73	84,415.80
2012	183,845.36	50.00	3,676.91	35.65	131,071.34
2013	88,318.55	50.00	1,766.37	36.57	64,590.28

PAWC - Water Operations
Water Operations
304.61 Office Buildings - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2014	402,537.52	50.00	8,050.75	37.49	301,846.67
2015	12,615.97	50.00	252.32	38.43	9,695.58
2016	683,665.11	50.00	13,673.30	39.36	538,246.73
2017	539,219.66	50.00	10,784.39	40.31	434,714.28
2018	1,151,356.24	50.00	23,027.11	41.26	950,094.35
2019	1,338,951.60	50.00	26,779.02	42.22	1,130,479.41
2020	619,050.23	50.00	12,381.00	43.18	534,551.57
2021	830,510.39	50.00	16,610.20	44.14	733,167.45
2022	1,604,063.59	50.00	32,081.26	45.11	1,447,123.50
2023	387,682.44	50.00	7,753.65	46.08	357,290.01
2024	800,288.59	50.00	16,005.76	47.06	753,164.97
2025	887,174.99	50.00	17,743.49	48.03	852,300.42
Total	15,381,845.30	48.48	307,615.56	34.61	10,646,998.57

Composite Average Remaining Life ... 34.61 Years

PAWC - Water Operations
Water Operations
304.62 Garage Buildings - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1958	1,356.00	55.00	24.65	14.21	350.31
1965	653,341.28	55.00	11,878.93	16.90	200,736.62
1967	45,486.00	55.00	827.02	17.70	14,636.04
1969	4,300.00	55.00	78.18	18.51	1,447.28
1970	2,902.00	55.00	52.76	18.93	998.55
1972	1,319.97	55.00	24.00	19.76	474.33
1973	9,153.18	55.00	166.42	20.19	3,360.07
1975	40.52	55.00	0.74	21.06	15.51
1977	1,690.34	55.00	30.73	21.94	674.34
1979	3,808.27	55.00	69.24	22.85	1,582.01
1981	0.16	55.00	0.00	23.78	0.07
1985	8,909.55	55.00	161.99	25.70	4,163.39
1986	56,270.95	55.00	1,023.11	26.20	26,802.84
1987	799,727.39	55.00	14,540.49	26.70	388,252.32
1988	16,136.70	55.00	293.39	27.21	7,983.91
1989	365,534.82	55.00	6,646.09	27.73	184,295.29
1990	21,055.84	55.00	382.83	28.25	10,816.85
1991	5,126.72	55.00	93.21	28.79	2,683.31
1992	10,300.00	55.00	187.27	29.33	5,491.87
1993	2,884.28	55.00	52.44	29.87	1,566.61
1995	1,257.55	55.00	22.86	30.99	708.65
1996	53,669.41	55.00	975.81	31.57	30,802.08
1997	53,667.76	55.00	975.78	32.15	31,366.63
1998	41,194.00	55.00	748.98	32.74	24,518.50
2000	55,773.26	55.00	1,014.06	33.94	34,421.60
2001	106,652.86	55.00	1,939.14	34.56	67,022.46
2002	3,229.97	55.00	58.73	35.19	2,066.67

PAWC - Water Operations
Water Operations
304.62 Garage Buildings - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2006	123,630.77	55.00	2,247.83	37.81	84,989.65
2007	61,197.63	55.00	1,112.68	38.49	42,829.49
2008	530,439.54	55.00	9,644.35	39.18	377,903.78
2009	415,793.46	55.00	7,559.88	39.89	301,567.10
2010	105,796.74	55.00	1,923.58	40.61	78,114.64
2011	56,537.12	55.00	1,027.95	41.34	42,495.36
2012	1,931,567.43	55.00	35,119.40	42.08	1,477,951.27
2013	23,340.26	55.00	424.37	42.84	18,180.01
2014	16,852,825.36	55.00	306,414.91	43.61	13,362,189.17
2015	31,770.86	55.00	577.65	44.39	25,643.36
2018	19,072,598.79	55.00	346,774.41	46.83	16,239,306.40
2019	6,338,430.77	55.00	115,244.16	47.67	5,493,547.97
2021	11,528,614.10	55.00	209,611.10	49.40	10,354,723.77
Total	59,397,331.61	55.00	1,079,951.14	45.32	48,946,680.08

Composite Average Remaining Life ... 45.32 Years

PAWC - Water Operations
Water Operations
304.63 Garage Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 45 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1951	224.35	0.00	0.00	0.00	0.00
1954	7,218.02	45.00	160.40	0.81	130.45
1955	102.19	45.00	2.27	1.03	2.34
1956	4,958.84	45.00	110.20	1.26	138.49
1957	1,837.61	45.00	40.84	1.49	60.85
1958	961.89	45.00	21.38	1.71	36.53
1959	597.93	45.00	13.29	1.96	26.06
1960	1,741.98	45.00	38.71	2.22	85.76
1961	1,982.01	45.00	44.04	2.47	108.85
1962	710.49	45.00	15.79	2.72	42.89
1963	2,085.78	45.00	46.35	2.97	137.89
1964	2,784.23	45.00	61.87	3.23	200.07
1965	508.47	45.00	11.30	3.49	39.46
1966	1,064.78	45.00	23.66	3.75	88.76
1967	4,993.16	45.00	110.96	4.00	443.92
1968	2,254.26	45.00	50.09	4.26	213.53
1969	2,390.61	45.00	53.12	4.53	240.56
1970	6,820.17	45.00	151.56	4.80	727.38
1971	108.61	45.00	2.41	5.07	12.24
1972	1,378.44	45.00	30.63	5.36	164.16
1973	3,765.33	45.00	83.67	5.66	473.40
1974	1,742.20	45.00	38.72	5.97	231.10
1976	3,864.48	45.00	85.88	6.63	569.76
1977	1,262.70	45.00	28.06	6.99	196.25
1978	217.32	45.00	4.83	7.37	35.60
1980	2,677.16	45.00	59.49	8.19	486.99
1981	1,451.66	45.00	32.26	8.62	278.18

PAWC - Water Operations
Water Operations
304.63 Garage Buildings - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *45* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1982	5,970.51	45.00	132.68	9.08	1,204.98
1983	6,523.39	45.00	144.96	9.56	1,386.07
1984	48,157.46	45.00	1,070.17	10.06	10,767.98
1985	33,888.02	45.00	753.07	10.59	7,972.19
1986	26,460.94	45.00	588.02	11.13	6,544.15
1987	787.48	45.00	17.50	11.69	204.61
1988	529,385.73	45.00	11,764.12	12.27	144,400.76
1989	64,411.06	45.00	1,431.36	12.88	18,434.62
1990	940,610.84	45.00	20,902.45	13.50	282,186.55
1991	677,826.73	45.00	15,062.81	14.14	212,971.50
1992	315,133.45	45.00	7,002.96	14.79	103,606.37
1993	10,554.27	45.00	234.54	15.47	3,627.56
1994	66,069.03	45.00	1,468.20	16.16	23,722.46
1995	6,712.65	45.00	149.17	16.86	2,515.16
1996	87,209.96	45.00	1,938.00	17.58	34,067.99
1997	114,640.00	45.00	2,547.55	18.31	46,647.51
1998	16,673.34	45.00	370.52	19.06	7,061.33
1999	134,478.44	45.00	2,988.41	19.82	59,220.32
2000	70,199.60	45.00	1,559.99	20.59	32,116.82
2001	20,481.16	45.00	455.14	21.37	9,726.77
2002	9,242.43	45.00	205.39	22.17	4,552.65
2004	1,381.59	45.00	30.70	23.79	730.51
2005	48,343.08	45.00	1,074.29	24.62	26,452.11
2006	45,384.77	45.00	1,008.55	25.46	25,680.68
2007	50,145.83	45.00	1,114.35	26.32	29,324.27
2008	30,389.73	45.00	675.33	27.18	18,352.91
2009	16,131.55	45.00	358.48	28.05	10,054.39

PAWC - Water Operations
Water Operations
304.63 Garage Buildings - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *45* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2010	3,246.17	45.00	72.14	28.93	2,086.78
2011	201,637.31	45.00	4,480.83	29.82	133,608.42
2012	210,711.21	45.00	4,682.47	30.72	143,836.19
2013	45,232.71	45.00	1,005.17	31.63	31,789.15
2014	70,773.93	45.00	1,572.75	32.54	51,179.47
2015	510,071.22	45.00	11,334.91	33.46	379,319.76
2016	77,144.72	45.00	1,714.33	34.40	58,966.70
2017	35,167.27	45.00	781.49	35.33	27,613.58
2018	1,413,711.28	45.00	31,415.79	36.28	1,139,722.03
2019	164,968.85	45.00	3,665.97	37.23	136,480.32
2020	417,000.55	45.00	9,266.67	38.18	353,846.56
2021	1,968,623.43	45.00	43,747.17	39.15	1,712,556.56
2022	397,906.18	45.00	8,842.36	40.11	354,690.27
2023	164,862.77	45.00	3,663.62	41.08	150,511.98
2025	285,224.77	45.00	6,338.33	43.04	272,771.21
2026	3,770,747.25	45.00	83,794.34	44.02	3,688,309.59
2027	1,183,982.24	45.00	26,310.70	44.75	1,177,498.98
Total	14,357,909.57	44.37	319,059.52	34.30	10,943,492.22

Composite Average Remaining Life ... 34.30 Years

PAWC - Water Operations
Water Operations
304.65 Miscellaneous Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 *Survivor Curve:* S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1927	25.53	0.00	0.00	0.00	0.00
1929	378.06	0.00	0.00	0.00	0.00
1930	3,046.78	0.00	0.00	0.00	0.00
1936	1,103.87	0.00	0.00	0.00	0.00
1941	568.94	0.00	0.00	0.00	0.00
1942	476.52	0.00	0.00	0.00	0.00
1943	37.77	0.00	0.00	0.00	0.00
1951	0.88	0.00	0.00	0.00	0.00
1952	445.59	0.00	0.00	0.00	0.00
1954	1,758.62	0.00	0.00	0.00	0.00
1958	1,321.15	35.00	37.75	0.50	18.87
1959	127.43	35.00	3.64	0.79	2.88
1960	1,218.44	35.00	34.81	1.12	38.90
1962	171.70	35.00	4.91	1.79	8.76
1963	980.64	35.00	28.02	2.12	59.37
1964	402.27	35.00	11.49	2.45	28.18
1967	403.61	35.00	11.53	3.45	39.81
1969	4.50	35.00	0.13	4.12	0.53
1970	243.77	35.00	6.96	4.45	31.03
1971	451.81	35.00	12.91	4.79	61.83
1972	546.33	35.00	15.61	5.13	80.03
1973	23.52	35.00	0.67	5.47	3.67
1975	2,831.53	35.00	80.90	6.15	497.78
1981	137.31	35.00	3.92	8.27	32.46
1983	1,001.92	35.00	28.63	9.01	257.98
1986	1,922.47	35.00	54.93	10.15	557.58
1987	6,529.73	35.00	186.56	10.54	1,966.60

PAWC - Water Operations
Water Operations
304.65 Miscellaneous Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1988	3,114.76	35.00	88.99	10.94	973.29
1989	514.32	35.00	14.69	11.34	166.61
1991	2,441.51	35.00	69.76	12.16	848.18
1992	1,451.45	35.00	41.47	12.58	521.67
1996	21,695.49	35.00	619.87	14.33	8,885.02
1997	6,576.10	35.00	187.89	14.79	2,779.31
1998	4,442.06	35.00	126.92	15.26	1,936.71
2003	65,140.65	35.00	1,861.16	17.74	33,020.68
2004	202,430.99	35.00	5,783.73	18.27	105,674.65
2005	173,718.45	35.00	4,963.37	18.81	93,370.59
2006	63,226.24	35.00	1,806.46	19.37	34,982.52
2007	259,622.31	35.00	7,417.76	19.93	147,847.22
2008	324,859.77	35.00	9,281.68	20.51	190,379.40
2009	26,274.00	35.00	750.68	21.11	15,843.32
2010	147,211.85	35.00	4,206.04	21.71	91,324.93
2011	1,697.66	35.00	48.50	22.34	1,083.45
2012	59,042.10	35.00	1,686.91	22.98	38,760.74
2013	28,489.47	35.00	813.98	23.63	19,237.87
2014	11,699.12	35.00	334.26	24.31	8,125.35
2015	589,042.21	35.00	16,829.73	25.00	420,756.49
2016	482,929.81	35.00	13,797.96	25.71	354,770.34
2017	368,208.98	35.00	10,520.23	26.44	278,165.37
2018	766,013.70	35.00	21,886.05	27.19	595,128.32
2019	38.57	35.00	1.10	27.96	30.82
2020	9,314.33	35.00	266.12	28.76	7,653.16
2021	35,263.58	35.00	1,007.53	29.57	29,796.85
2022	36,060.73	35.00	1,030.30	30.41	31,335.33

PAWC - Water Operations
Water Operations
304.65 Miscellaneous Structures

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2023	709,557.08	35.00	20,273.00	31.28	634,083.86
2025	974,827.67	35.00	27,852.14	33.08	921,342.64
2026	669,424.97	35.00	19,126.38	34.02	650,742.96
2027	161,502.86	35.00	4,614.35	34.75	160,354.50
Total	6,231,993.48	28.97	177,832.40	27.46	4,883,608.44

Composite Average Remaining Life ... 27.46 Years

PAWC - Water Operations
Water Operations
305.20 Collecting Reservoirs - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 75 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1975	3,696.63	75.00	49.29	29.06	1,432.16
1976	33,873.94	75.00	451.65	29.78	13,451.52
1977	10,916.92	75.00	145.56	30.52	4,441.96
1978	1,349.94	75.00	18.00	31.26	562.69
1979	1,950.67	75.00	26.01	32.01	832.61
1980	4,963.85	75.00	66.18	32.77	2,168.88
1981	40,478.96	75.00	539.72	33.54	18,101.55
1982	6,586.84	75.00	87.82	34.31	3,013.45
1983	23,816.23	75.00	317.55	35.09	11,143.52
1984	9,522.41	75.00	126.97	35.88	4,555.88
1985	9,787.50	75.00	130.50	36.68	4,786.47
1986	63,587.47	75.00	847.83	37.48	31,776.28
1987	238,785.72	75.00	3,183.81	38.29	121,911.18
1988	5,057.13	75.00	67.43	39.11	2,636.91
1989	10,658.11	75.00	142.11	39.93	5,674.21
1990	6,573.40	75.00	87.65	40.76	3,572.46
1991	64,197.42	75.00	855.97	41.60	35,604.85
1992	488,163.58	75.00	6,508.85	42.44	276,220.82
1993	11,903.21	75.00	158.71	43.29	6,870.29
1994	590.47	75.00	7.87	44.14	347.54
1995	402,185.05	75.00	5,362.47	45.00	241,330.02
1996	24,583.99	75.00	327.79	45.87	15,036.38
1997	584,524.50	75.00	7,793.66	46.75	364,316.75
1998	8,582.75	75.00	114.44	47.62	5,449.86
2000	36,206.67	75.00	482.76	49.40	23,847.81
2001	107,327.29	75.00	1,431.03	50.29	71,972.48
2002	121,804.01	75.00	1,624.05	51.20	83,145.72

PAWC - Water Operations
Water Operations
305.20 Collecting Reservoirs - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2003	6,013.22	75.00	80.18	52.10	4,177.35
2006	13,535.28	75.00	180.47	54.85	9,898.77
2007	22,971.49	75.00	306.29	55.77	17,082.94
2014	1,219,266.97	75.00	16,256.89	62.37	1,013,888.85
2016	7,735.78	75.00	103.14	64.28	6,630.23
2017	107,019.88	75.00	1,426.93	65.24	93,099.29
2019	385,025.55	75.00	5,133.67	67.18	344,863.65
2020	632,820.09	75.00	8,437.60	68.15	575,003.33
2023	1,227,876.69	75.00	16,371.69	71.07	1,163,580.84
2024	4,929,950.44	75.00	65,732.67	72.05	4,736,155.36
2025	549,203.56	75.00	7,322.71	73.03	534,796.56
Total	11,423,093.61	75.00	152,307.91	64.69	9,853,381.42

Composite Average Remaining Life ... 64.69 Years

PAWC - Water Operations
Water Operations
306.10 Lake Intakes - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S1.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1962	4,167.41	55.00	75.77	12.18	923.13
1966	6,696.14	55.00	121.75	13.55	1,649.84
1970	1,783.13	55.00	32.42	15.02	487.02
1990	18,120.03	55.00	329.46	24.48	8,064.94
1992	743,957.01	55.00	13,526.49	25.67	347,199.53
1995	1,697,864.04	55.00	30,870.26	27.55	850,620.32
1996	16,079.46	55.00	292.35	28.21	8,247.48
1997	9,262,132.20	55.00	168,402.42	28.88	4,863,107.07
1998	153,399.52	55.00	2,789.08	29.56	82,452.65
2004	89,428.33	55.00	1,625.97	33.97	55,231.25
2005	48,578.25	55.00	883.24	34.75	30,695.73
2007	52,227.42	55.00	949.59	36.37	34,533.02
2008	24,096.05	55.00	438.11	37.19	16,293.79
2018	210,583.17	55.00	3,828.79	46.16	176,738.29
Total	12,329,112.16	55.00	224,165.69	28.89	6,476,244.05

Composite Average Remaining Life ... 28.89 Years

PAWC - Water Operations
Water Operations
306.20 Lake Intakes - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1903	410.39	0.00	0.00	0.00	0.00
1905	534.43	0.00	0.00	0.00	0.00
1906	75.36	0.00	0.00	0.00	0.00
1907	35.28	0.00	0.00	0.00	0.00
1908	3,802.04	0.00	0.00	0.00	0.00
1909	483.18	0.00	0.00	0.00	0.00
1914	78.40	0.00	0.00	0.00	0.00
1915	1,821.25	0.00	0.00	0.00	0.00
1916	339.02	0.00	0.00	0.00	0.00
1920	325.59	0.00	0.00	0.00	0.00
1924	169.04	0.00	0.00	0.00	0.00
1934	259.69	50.00	5.19	2.48	12.87
1937	1,562.87	50.00	31.26	3.49	109.04
1938	212.56	50.00	4.25	3.82	16.25
1948	4,010.11	50.00	80.20	7.17	575.31
1954	498.28	50.00	9.97	9.23	91.96
1955	1,186.11	50.00	23.72	9.58	227.16
1959	0.02	50.00	0.00	10.99	0.00
1961	190,082.61	50.00	3,801.65	11.71	44,527.97
1962	2,379.72	50.00	47.59	12.08	574.84
1963	0.34	50.00	0.01	12.45	0.08
1964	12,769.99	50.00	255.40	12.82	3,273.41
1966	20,748.56	50.00	414.97	13.57	5,630.37
1967	34,143.96	50.00	682.88	13.95	9,525.30
1968	3,233.89	50.00	64.68	14.33	927.02
1969	330,412.38	50.00	6,608.24	14.72	97,276.93
1970	237.03	50.00	4.74	15.11	71.64

PAWC - Water Operations
Water Operations
306.20 Lake Intakes - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1972	2,354.32	50.00	47.09	15.91	748.98
1973	187,614.58	50.00	3,752.29	16.31	61,199.95
1974	681.97	50.00	13.64	16.72	228.02
1976	4,852.30	50.00	97.05	17.55	1,702.83
1979	4,513.05	50.00	90.26	18.83	1,699.23
1980	216.19	50.00	4.32	19.26	83.29
1982	0.25	50.00	0.00	20.15	0.10
1983	581.03	50.00	11.62	20.60	239.44
1984	7,023.48	50.00	140.47	21.06	2,958.86
1985	697.88	50.00	13.96	21.53	300.50
1986	5,080.50	50.00	101.61	22.00	2,235.50
1987	367.98	50.00	7.36	22.48	165.43
1988	324.97	50.00	6.50	22.96	149.25
1989	29,358.08	50.00	587.16	23.46	13,771.87
1991	298,477.84	50.00	5,969.55	24.46	146,013.67
1992	13,193.06	50.00	263.86	24.97	6,589.49
1994	7,099.58	50.00	141.99	26.02	3,695.21
1996	984,488.40	50.00	19,689.75	27.11	533,754.65
1997	104,446.54	50.00	2,088.93	27.66	57,786.82
1998	4,130.31	50.00	82.61	28.23	2,331.77
1999	424,004.45	50.00	8,480.08	28.80	244,236.11
2001	11,450.40	50.00	229.01	29.98	6,865.09
2002	110,605.59	50.00	2,212.11	30.58	67,648.37
2006	199,267.35	50.00	3,985.34	33.10	131,927.24
2007	431,304.73	50.00	8,626.09	33.76	291,237.47
2008	71,498.70	50.00	1,429.97	34.43	49,239.49
2011	35,369.46	50.00	707.39	36.52	25,837.16

PAWC - Water Operations
Water Operations
306.20 Lake Intakes - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2013	63,613.56	50.00	1,272.27	37.99	48,328.24
2014	6,708.45	50.00	134.17	38.74	5,197.39
2017	303,443.55	50.00	6,068.86	41.08	249,323.65
2019	144,996.82	50.00	2,899.93	42.72	123,896.25
2020	65,210.69	50.00	1,304.21	43.57	56,823.42
2021	110,041.39	50.00	2,200.83	44.43	97,785.84
2023	1,193,969.83	50.00	23,879.37	46.21	1,103,438.38
2025	2,794,308.00	50.00	55,886.10	48.06	2,685,943.08
Total	8,231,107.38	41.13	164,460.49	37.62	6,186,222.20

Composite Average Remaining Life ... 37.62 Years

PAWC - Water Operations
Water Operations
307.00 Wells and Springs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1901	681.93	0.00	0.00	0.00	0.00
1904	1,464.95	0.00	0.00	0.00	0.00
1905	11,469.70	0.00	0.00	0.00	0.00
1907	59.56	0.00	0.00	0.00	0.00
1908	10.92	0.00	0.00	0.00	0.00
1910	6,312.19	0.00	0.00	0.00	0.00
1912	844.78	0.00	0.00	0.00	0.00
1913	1,485.52	0.00	0.00	0.00	0.00
1914	681.15	0.00	0.00	0.00	0.00
1915	2,497.70	0.00	0.00	0.00	0.00
1916	1,749.01	0.00	0.00	0.00	0.00
1918	1,176.08	55.00	21.38	0.50	10.69
1920	61.59	55.00	1.12	1.16	1.30
1922	2,800.86	55.00	50.92	1.85	94.39
1923	9,805.16	55.00	178.28	2.22	395.16
1924	8,312.21	55.00	151.13	2.58	390.42
1926	457.16	55.00	8.31	3.33	27.66
1927	1,171.62	55.00	21.30	3.70	78.73
1930	8.95	55.00	0.16	4.81	0.78
1934	197.86	55.00	3.60	6.33	22.76
1935	1,242.93	55.00	22.60	6.71	151.55
1937	3,037.93	55.00	55.24	7.47	412.78
1938	239.68	55.00	4.36	7.86	34.24
1939	2,531.85	55.00	46.03	8.24	379.39
1940	74.35	55.00	1.35	8.63	11.66
1941	825.77	55.00	15.01	9.02	135.37
1945	4,298.99	55.00	78.16	10.58	827.17

PAWC - Water Operations
Water Operations
307.00 Wells and Springs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1946	223.23	55.00	4.06	10.98	44.55
1948	861.30	55.00	15.66	11.77	184.36
1950	107.48	55.00	1.95	12.57	24.57
1951	605.10	55.00	11.00	12.98	142.75
1953	12,940.30	55.00	235.28	13.79	3,243.62
1954	14,752.89	55.00	268.23	14.19	3,807.20
1955	12,112.59	55.00	220.23	14.60	3,215.93
1956	1,595.84	55.00	29.02	15.01	435.62
1957	25,321.59	55.00	460.39	15.43	7,102.22
1958	2,582.60	55.00	46.96	15.84	743.84
1959	1,920.72	55.00	34.92	16.26	567.78
1960	45,989.30	55.00	836.17	16.68	13,944.51
1961	4,462.49	55.00	81.14	17.10	1,387.19
1962	2,997.16	55.00	54.49	17.52	954.71
1963	8,633.83	55.00	156.98	17.94	2,816.86
1964	2,114.28	55.00	38.44	18.37	706.22
1965	13,643.97	55.00	248.07	18.80	4,663.80
1966	120,566.08	55.00	2,192.11	19.23	42,157.08
1967	4,200.85	55.00	76.38	19.66	1,501.97
1968	7,099.79	55.00	129.09	20.10	2,594.72
1969	56,380.98	55.00	1,025.11	20.54	21,054.46
1970	7,896.19	55.00	143.57	20.98	3,011.97
1971	31,770.82	55.00	577.65	21.42	12,374.87
1972	101,470.63	55.00	1,844.92	21.87	40,345.75
1973	100,432.43	55.00	1,826.04	22.32	40,751.95
1974	38,731.78	55.00	704.21	22.77	16,033.78
1975	9,075.85	55.00	165.02	23.22	3,832.04

PAWC - Water Operations
Water Operations
307.00 Wells and Springs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1976	108,029.28	55.00	1,964.17	23.68	46,510.13
1977	20,490.03	55.00	372.55	24.14	8,992.99
1978	178,729.50	55.00	3,249.63	24.60	79,948.36
1979	92,568.39	55.00	1,683.06	25.07	42,191.85
1980	224,448.24	55.00	4,080.87	25.54	104,217.16
1981	134,002.70	55.00	2,436.41	26.01	63,372.12
1982	297,910.23	55.00	5,416.55	26.49	143,466.46
1983	167,873.11	55.00	3,052.24	26.97	82,308.15
1984	49,303.78	55.00	896.43	27.45	24,607.01
1985	97,160.86	55.00	1,766.56	27.94	49,352.59
1986	89,535.96	55.00	1,627.93	28.43	46,278.10
1987	304,913.16	55.00	5,543.87	28.92	160,344.53
1988	209,822.34	55.00	3,814.95	29.42	112,243.98
1989	96,664.83	55.00	1,757.54	29.93	52,595.63
1990	942,766.58	55.00	17,141.20	30.43	521,668.57
1991	90,932.61	55.00	1,653.32	30.95	51,163.70
1992	222,370.82	55.00	4,043.10	31.46	127,206.45
1993	80,566.53	55.00	1,464.84	31.98	46,852.80
1994	11,303.91	55.00	205.53	32.51	6,682.06
1995	77,258.54	55.00	1,404.70	33.04	46,417.60
1996	210,950.90	55.00	3,835.47	33.58	128,803.91
1997	132,590.72	55.00	2,410.74	34.12	82,265.87
1998	61,315.68	55.00	1,114.83	34.67	38,655.93
1999	40,117.29	55.00	729.40	35.23	25,696.82
2000	893,302.05	55.00	16,241.84	35.79	581,322.56
2001	249,456.87	55.00	4,535.58	36.36	164,913.40
2002	304,629.46	55.00	5,538.71	36.94	204,572.51

PAWC - Water Operations
Water Operations
307.00 Wells and Springs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2003	144,275.25	55.00	2,623.18	37.52	98,411.69
2004	992,896.65	55.00	18,052.65	38.11	687,915.10
2005	2,656.44	55.00	48.30	38.70	1,869.34
2006	231,131.79	55.00	4,202.39	39.31	165,192.79
2007	502,115.51	55.00	9,129.37	39.92	364,473.35
2008	311,828.77	55.00	5,669.61	40.54	229,870.54
2009	8,573.91	55.00	155.89	41.18	6,419.02
2010	274,129.70	55.00	4,984.17	41.82	208,433.00
2011	339,764.18	55.00	6,177.53	42.47	262,367.37
2012	103,715.77	55.00	1,885.74	43.13	81,339.91
2013	217,566.75	55.00	3,955.76	43.81	173,295.34
2014	173,233.36	55.00	3,149.70	44.49	140,138.64
2015	1,153,991.75	55.00	20,981.65	45.19	948,205.80
2016	83,509.85	55.00	1,518.36	45.90	69,700.10
2017	28,746.62	55.00	522.67	46.63	24,372.81
2018	120,560.07	55.00	2,192.00	47.37	103,843.32
2019	136,512.89	55.00	2,482.05	48.13	119,459.23
2020	262,149.07	55.00	4,766.34	48.91	233,101.79
2021	186,021.65	55.00	3,382.21	49.70	168,099.76
2022	1,580,320.53	55.00	28,733.08	50.52	1,451,509.30
2023	297,050.29	55.00	5,400.91	51.36	277,365.24
2024	63,501.73	55.00	1,154.58	52.22	60,290.10
2025	1,372,071.88	55.00	24,946.74	53.11	1,324,820.30
Total	14,667,329.25	49.18	266,182.94	39.35	10,473,763.47

Composite Average Remaining Life ... 39.35 Years

PAWC - Water Operations
Water Operations
310.00 Power Generation Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 45 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1931	3,609.84	0.00	0.00	0.00	0.00
1936	2,809.10	0.00	0.00	0.00	0.00
1937	4,520.24	0.00	0.00	0.00	0.00
1940	2,939.00	45.00	65.31	1.10	71.85
1944	1.00	45.00	0.02	2.47	0.05
1954	8,338.50	45.00	185.30	5.82	1,077.63
1957	1,178.00	45.00	26.18	6.83	178.82
1958	5,336.00	45.00	118.58	7.17	850.06
1959	107.00	45.00	2.38	7.51	17.86
1963	940.00	45.00	20.89	8.90	185.88
1965	6,019.00	45.00	133.76	9.61	1,284.95
1966	142.00	45.00	3.16	9.96	31.44
1967	7,319.00	45.00	162.64	10.32	1,679.12
1968	23,061.00	45.00	512.47	10.69	5,476.98
1969	45,202.40	45.00	1,004.50	11.05	11,103.99
1970	206.00	45.00	4.58	11.42	52.30
1972	7,872.85	45.00	174.95	12.17	2,129.80
1973	136.00	45.00	3.02	12.55	37.94
1974	52,315.00	45.00	1,162.56	12.94	15,041.92
1975	38,313.36	45.00	851.41	13.33	11,346.85
1980	25,076.66	45.00	557.26	15.33	8,545.20
1981	585.65	45.00	13.01	15.75	204.98
1982	11,137.43	45.00	247.50	16.17	4,002.42
1983	2,509.00	45.00	55.76	16.60	925.43
1991	39,570.00	45.00	879.33	20.23	17,789.83
1992	48,752.04	45.00	1,083.38	20.72	22,443.16
1993	23,243.53	45.00	516.52	21.21	10,954.60

PAWC - Water Operations
Water Operations
310.00 Power Generation Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 45 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1994	107,457.50	45.00	2,387.94	21.71	51,841.65
1995	1,076.42	45.00	23.92	22.22	531.48
1996	7,932.48	45.00	176.28	22.74	4,007.81
1997	1,040,121.31	45.00	23,113.80	23.26	537,668.51
1998	20,346.13	45.00	452.14	23.80	10,759.91
1999	250,124.14	45.00	5,558.31	24.34	135,304.42
2000	96,600.18	45.00	2,146.67	24.90	53,445.92
2001	3,572.21	45.00	79.38	25.46	2,021.20
2002	189,643.82	45.00	4,214.31	26.04	109,724.35
2003	241,761.04	45.00	5,372.47	26.62	143,032.74
2004	86,744.06	45.00	1,927.65	27.22	52,470.92
2005	261,676.97	45.00	5,815.04	27.83	161,823.97
2006	370,647.36	45.00	8,236.61	28.45	234,319.42
2007	106,124.17	45.00	2,358.31	29.08	68,585.62
2008	133,786.35	45.00	2,973.03	29.73	88,381.84
2009	129,823.10	45.00	2,884.96	30.39	87,662.91
2010	97,770.04	45.00	2,172.67	31.06	67,478.42
2011	401,064.15	45.00	8,912.53	31.74	282,913.27
2012	6,230,204.92	45.00	138,448.95	32.45	4,492,026.59
2013	5,465,954.46	45.00	121,465.62	33.16	4,027,846.90
2014	619,366.07	45.00	13,763.69	33.89	466,457.77
2015	609,698.44	45.00	13,548.85	34.64	469,278.50
2016	160,719.19	45.00	3,571.54	35.40	126,431.59
2017	266,682.99	45.00	5,926.29	36.18	214,404.48
2018	983,860.91	45.00	21,863.57	36.97	808,387.48
2019	344,429.87	45.00	7,653.99	37.79	289,222.41
2020	278,768.83	45.00	6,194.86	38.62	239,232.13

PAWC - Water Operations
Water Operations
310.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *45* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2021	193,906.93	45.00	4,309.04	39.47	170,076.60
2022	168,052.35	45.00	3,734.50	40.34	150,643.73
2023	5,452,340.43	45.00	121,163.08	41.23	4,995,138.63
2024	839,770.15	45.00	18,661.55	42.13	786,301.15
2025	1,604,430.51	45.00	35,654.00	43.07	1,535,502.53
Total	27,125,697.08	42.71	602,549.98	34.82	20,978,357.92

Composite Average Remaining Life ... 34.82 Years

PAWC - Water Operations
Water Operations
311.20 Pumping Equipment - Electric
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 39 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1957	5,617.81	39.00	144.05	2.97	427.38
1958	73.19	39.00	1.88	3.34	6.27
1974	4,935.66	39.00	126.55	9.56	1,210.36
1977	19,113.82	39.00	490.10	10.79	5,288.55
1978	18,893.54	39.00	484.45	11.21	5,428.35
1979	4,182.40	39.00	107.24	11.62	1,246.32
1980	429.63	39.00	11.02	12.04	132.65
1981	9,119.10	39.00	233.82	12.46	2,914.26
1982	1,035.64	39.00	26.55	12.89	342.26
1983	2,600.86	39.00	66.69	13.32	888.10
1984	1,382.95	39.00	35.46	13.75	487.53
1987	737.55	39.00	18.91	15.06	284.87
1988	1,478.21	39.00	37.90	15.51	587.81
1989	5,928.57	39.00	152.01	15.96	2,425.74
1990	10,264.88	39.00	263.20	16.41	4,319.20
1991	9,018.73	39.00	231.25	16.87	3,900.54
1992	65,795.88	39.00	1,687.06	17.33	29,234.24
1993	20,179.72	39.00	517.43	17.79	9,207.16
1995	9,481.05	39.00	243.10	18.74	4,555.58
1996	118,684.33	39.00	3,043.17	19.22	58,487.82
1997	16,610.34	39.00	425.90	19.70	8,392.18
1998	14,935.98	39.00	382.97	20.20	7,734.15
1999	2,589.25	39.00	66.39	20.69	1,373.70
2000	1,853.83	39.00	47.53	21.19	1,007.41
2001	42,173.71	39.00	1,081.37	21.70	23,467.47
2002	43,896.58	39.00	1,125.55	22.22	25,006.02
2003	1,020,380.85	39.00	26,163.47	22.74	594,905.82

PAWC - Water Operations
Water Operations
311.20 Pumping Equipment - Electric
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2004	151,570.05	39.00	3,886.39	23.27	90,425.93
2005	354,242.64	39.00	9,083.10	23.80	216,213.58
2006	2,810,565.65	39.00	72,065.40	24.35	1,754,649.49
2007	47,643.09	39.00	1,221.61	24.90	30,419.41
2008	264,715.19	39.00	6,787.53	25.46	172,825.16
2009	38,525.06	39.00	987.82	26.03	25,716.32
2010	58,424.20	39.00	1,498.05	26.61	39,868.46
2011	116,972.06	39.00	2,999.27	27.21	81,596.48
2012	908,486.10	39.00	23,294.39	27.81	647,773.29
2013	343,343.55	39.00	8,803.63	28.42	250,216.49
2014	4,345,069.32	39.00	111,411.43	29.05	3,236,420.21
2015	359,752.73	39.00	9,224.38	29.69	273,862.68
2016	550,567.37	39.00	14,117.04	30.34	428,374.94
2017	145,080.54	39.00	3,719.99	31.01	115,372.10
2018	1,680,756.98	39.00	43,096.10	31.70	1,366,243.30
2019	856,766.90	39.00	21,968.26	32.41	711,912.47
2020	2,203,367.65	39.00	56,496.30	33.13	1,871,890.95
2021	1,485,623.92	39.00	38,092.72	33.88	1,290,606.67
2022	59,497.17	39.00	1,525.56	34.65	52,861.78
2023	1,019,498.64	39.00	26,140.85	35.45	926,676.64
2024	78,588.24	39.00	2,015.07	36.28	73,097.74
2025	2,008,400.67	39.00	51,497.18	37.14	1,912,564.18
2026	6,729,397.15	39.00	172,547.72	38.04	6,563,679.74
2027	1,286,049.17	39.00	32,975.44	38.75	1,277,843.77

PAWC - Water Operations
Water Operations
311.20 Pumping Equipment - Electric
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	29,354,298.10	39.00	752,670.26	32.16	24,204,373.52

Composite Average Remaining Life ... *32.16 Years*

PAWC - Water Operations
Water Operations
311.50 Pumping Equipment - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 39 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1990	835.56	39.00	21.42	16.41	351.58
1995	327.64	39.00	8.40	18.74	157.43
1998	1,142.97	39.00	29.31	20.20	591.85
1999	5,033.00	39.00	129.05	20.69	2,670.20
2000	143,232.96	39.00	3,672.62	21.19	77,835.73
2003	3,570.35	39.00	91.55	22.74	2,081.60
2004	35,469.10	39.00	909.46	23.27	21,160.69
2005	81,156.00	39.00	2,080.91	23.80	49,533.93
2006	48,612.53	39.00	1,246.47	24.35	30,349.03
2007	5,154.10	39.00	132.16	24.90	3,290.82
2010	60,727.52	39.00	1,557.11	26.61	41,440.24
2011	110,586.36	39.00	2,835.53	27.21	77,142.00
2012	1,828.67	39.00	46.89	27.81	1,303.89
2013	616,579.49	39.00	15,809.65	28.42	449,341.05
2014	7,545.93	39.00	193.48	29.05	5,620.58
2016	67,628.81	39.00	1,734.06	30.34	52,619.33
2017	8,642.12	39.00	221.59	31.01	6,872.46
2018	6,217.00	39.00	159.41	31.70	5,053.64
2019	645,916.50	39.00	16,561.87	32.41	536,710.76
2020	2,479,299.67	39.00	63,571.44	33.13	2,106,311.50
2021	2,468,926.62	39.00	63,305.47	33.88	2,144,831.63
2022	4,852,299.21	39.00	124,417.26	34.65	4,311,148.84
2023	6,074,300.97	39.00	155,750.47	35.45	5,521,255.84
2024	6,303,033.66	39.00	161,615.38	36.28	5,862,677.37
2025	4,165,389.75	39.00	106,804.29	37.14	3,966,626.46
2026	3,257,511.73	39.00	83,525.49	38.04	3,177,292.60
2027	1,052,755.64	39.00	26,993.59	38.75	1,046,038.73

PAWC - Water Operations
Water Operations
311.50 Pumping Equipment - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	32,503,723.86	39.00	833,424.33	35.40	29,500,309.76

Composite Average Remaining Life ... 35.40 Years

PAWC - Water Operations
Water Operations
311.52 Pumping Equipment - SOS

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1995	500.74	39.00	12.84	18.74	240.60
1997	242.21	39.00	6.21	19.70	122.37
2007	302,979.30	39.00	7,768.66	24.90	193,447.79
2008	106,545.19	39.00	2,731.91	25.46	69,560.38
2009	90,997.69	39.00	2,333.26	26.03	60,742.95
2010	665,309.01	39.00	17,059.11	26.61	454,004.43
2011	673,316.56	39.00	17,264.43	27.21	469,687.06
2012	213,917.90	39.00	5,485.04	27.81	152,528.81
2013	1,167,611.55	39.00	29,938.60	28.42	850,913.49
2014	1,470,086.74	39.00	37,694.33	29.05	1,094,992.53
2015	1,333,851.63	39.00	34,201.14	29.69	1,015,397.94
2016	1,650,181.56	39.00	42,312.12	30.34	1,283,941.73
2017	2,025,413.90	39.00	51,933.41	31.01	1,610,665.73
2018	970,045.83	39.00	24,872.84	31.70	788,524.83
2019	325,033.26	39.00	8,334.14	32.41	270,079.56
2020	119,694.64	39.00	3,069.08	33.13	101,687.67
2021	268,274.05	39.00	6,878.78	33.88	233,057.82
2023	21,622.78	39.00	554.43	35.45	19,654.10
Total	11,405,624.54	39.00	292,450.34	29.64	8,669,249.80

Composite Average Remaining Life ... 29.64 Years

PAWC - Water Operations
Water Operations
311.53 Pumping Equipment - Water Treatment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 39 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1910	137.73	0.00	0.00	0.00	0.00
1917	133.00	0.00	0.00	0.00	0.00
1919	8,727.40	0.00	0.00	0.00	0.00
1928	134.45	0.00	0.00	0.00	0.00
1929	274.09	0.00	0.00	0.00	0.00
1930	10.36	0.00	0.00	0.00	0.00
1931	3,609.84	0.00	0.00	0.00	0.00
1937	1,084.39	0.00	0.00	0.00	0.00
1939	195.67	0.00	0.00	0.00	0.00
1941	233.57	0.00	0.00	0.00	0.00
1942	901.65	0.00	0.00	0.00	0.00
1944	22.40	0.00	0.00	0.00	0.00
1945	612.26	0.00	0.00	0.00	0.00
1946	36.51	0.00	0.00	0.00	0.00
1947	175.93	0.00	0.00	0.00	0.00
1948	1,721.87	0.00	0.00	0.00	0.00
1950	176.72	39.00	4.53	0.50	2.27
1951	14,946.31	39.00	383.24	0.81	309.35
1952	33,162.46	39.00	850.31	1.14	972.17
1953	14,955.45	39.00	383.47	1.50	576.73
1954	9,781.62	39.00	250.81	1.86	466.94
1955	2,307.03	39.00	59.15	2.23	131.99
1956	984.21	39.00	25.24	2.60	65.52
1957	15,308.52	39.00	392.52	2.97	1,164.61
1958	2,821.39	39.00	72.34	3.34	241.73
1959	30,581.95	39.00	784.15	3.72	2,913.49
1960	74,879.69	39.00	1,919.98	4.09	7,859.66

PAWC - Water Operations
Water Operations
311.53 Pumping Equipment - Water Treatment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 39 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1961	172,778.06	39.00	4,430.18	4.47	19,807.39
1962	3,846.01	39.00	98.62	4.85	478.54
1963	21,459.38	39.00	550.24	5.23	2,879.67
1964	32,655.26	39.00	837.31	5.62	4,704.60
1965	199,549.50	39.00	5,116.63	6.00	30,715.87
1966	11,660.13	39.00	298.98	6.39	1,910.56
1967	28,880.66	39.00	740.53	6.78	5,021.10
1968	95,517.72	39.00	2,449.16	7.17	17,563.86
1969	307,919.76	39.00	7,895.34	7.57	59,731.78
1970	5,567.23	39.00	142.75	7.96	1,136.33
1971	51,979.05	39.00	1,332.79	8.36	11,140.21
1972	423,176.07	39.00	10,850.61	8.76	95,026.15
1973	5,691,249.88	39.00	145,928.70	9.16	1,336,627.08
1974	22,347.74	39.00	573.02	9.56	5,480.30
1975	112,278.57	39.00	2,878.92	9.97	28,703.74
1976	70,968.42	39.00	1,819.69	10.38	18,887.73
1977	19,388.63	39.00	497.14	10.79	5,364.59
1978	9,787.72	39.00	250.97	11.21	2,812.14
1979	173,726.38	39.00	4,454.50	11.62	51,768.98
1980	146,097.95	39.00	3,746.08	12.04	45,108.51
1981	505,230.20	39.00	12,954.55	12.46	161,460.29
1982	684,624.45	39.00	17,554.38	12.89	226,254.90
1983	229,348.41	39.00	5,880.70	13.32	78,314.64
1984	311,320.96	39.00	7,982.55	13.75	109,749.05
1985	643,142.22	39.00	16,490.74	14.18	233,895.47
1986	407,620.75	39.00	10,451.76	14.62	152,820.29
1987	667,775.86	39.00	17,122.37	15.06	257,916.65

PAWC - Water Operations
Water Operations
311.53 Pumping Equipment - Water Treatment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 39 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1988	283,751.47	39.00	7,275.64	15.51	112,833.19
1989	418,946.17	39.00	10,742.15	15.96	171,416.55
1990	4,401,706.59	39.00	112,863.66	16.41	1,852,124.80
1991	1,019,819.94	39.00	26,149.09	16.87	441,064.90
1992	985,449.05	39.00	25,267.79	17.33	437,851.91
1993	1,214,131.28	39.00	31,131.40	17.79	553,957.42
1994	342,251.03	39.00	8,775.62	18.26	160,279.85
1995	3,082,931.12	39.00	79,049.09	18.74	1,481,328.05
1996	1,060,183.76	39.00	27,184.05	19.22	522,460.18
1997	3,345,175.84	39.00	85,773.28	19.70	1,690,110.92
1998	1,034,657.53	39.00	26,529.54	20.20	535,766.65
1999	3,189,091.46	39.00	81,771.14	20.69	1,691,938.26
2000	2,409,237.91	39.00	61,775.00	21.19	1,309,229.39
2001	2,395,199.84	39.00	61,415.05	21.70	1,332,803.81
2002	1,311,520.09	39.00	33,628.54	22.22	747,117.44
2003	2,219,803.79	39.00	56,917.74	22.74	1,294,197.36
2004	383,622.14	39.00	9,836.41	23.27	228,867.03
2005	64,788.35	39.00	1,661.23	23.80	39,543.86
2006	234,701.03	39.00	6,017.94	24.35	146,524.97
2007	1,472,539.40	39.00	37,757.22	24.90	940,194.58
2008	315,637.75	39.00	8,093.23	25.46	206,071.08
2009	166,046.08	39.00	4,257.57	26.03	110,839.39
2010	222,616.68	39.00	5,708.09	26.61	151,912.81
2011	329,273.84	39.00	8,442.87	27.21	229,692.35
2012	460,640.66	39.00	11,811.24	27.81	328,448.30
2013	203,020.58	39.00	5,205.63	28.42	147,954.13
2014	121,523.26	39.00	3,115.96	29.05	90,516.47

PAWC - Water Operations
Water Operations
311.53 Pumping Equipment - Water Treatment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2015	386,471.90	39.00	9,909.48	29.69	294,202.71
2016	297,614.05	39.00	7,631.09	30.34	231,561.85
2017	66,657.04	39.00	1,709.15	31.01	53,007.54
2018	891,894.73	39.00	22,868.97	31.70	724,997.85
2019	112,378.15	39.00	2,881.48	32.41	93,378.26
2020	142,298.54	39.00	3,648.66	33.13	120,891.01
2021	438,896.41	39.00	11,253.69	33.88	381,282.66
2022	118,121.94	39.00	3,028.75	34.65	104,948.45
2023	587,754.33	39.00	15,070.54	35.45	534,241.23
2024	25,792.73	39.00	661.35	36.28	23,990.74
2025	1,130,062.20	39.00	28,975.80	37.14	1,076,138.10
Total	48,154,022.10	32.22	1,234,250.05	19.10	23,573,670.92

Composite Average Remaining Life ... 19.10 Years

PAWC - Water Operations
Water Operations
311.54 Pumping Equipment - Transmission
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1999	35,292.32	39.00	904.93	20.69	18,723.96
2000	475,480.08	39.00	12,191.73	21.19	258,385.65
2001	36,531.40	39.00	936.70	21.70	20,327.82
2002	538,352.70	39.00	13,803.84	22.22	306,676.73
2003	70,588.30	39.00	1,809.95	22.74	41,154.62
2004	268,409.81	39.00	6,882.27	23.27	160,131.94
2005	16,038.24	39.00	411.23	23.80	9,789.01
2006	189,538.24	39.00	4,859.93	24.35	118,329.62
2007	1,098,486.35	39.00	28,166.17	24.90	701,367.25
2008	658,548.44	39.00	16,885.77	25.46	429,947.89
2009	1,314,447.17	39.00	33,703.59	26.03	877,422.25
2010	291,357.56	39.00	7,470.67	26.61	198,821.33
2011	161,831.12	39.00	4,149.49	27.21	112,888.93
2012	145,779.02	39.00	3,737.90	27.81	103,944.08
2013	243,526.60	39.00	6,244.24	28.42	177,473.47
2015	53,358.27	39.00	1,368.15	29.69	40,619.12
2016	287,116.14	39.00	7,361.91	30.34	223,393.84
2017	135,483.94	39.00	3,473.93	31.01	107,740.61
2018	157,143.96	39.00	4,029.31	31.70	127,738.21
2019	27,912.06	39.00	715.69	32.41	23,192.94
2020	81,516.58	39.00	2,090.16	33.13	69,253.15
2021	3,000.02	39.00	76.92	33.88	2,606.21
2022	48,563.86	39.00	1,245.22	34.65	43,147.80
2023	2,922,287.54	39.00	74,930.05	35.45	2,656,222.87
2024	28,865.32	39.00	740.13	36.28	26,848.67
2025	543,332.19	39.00	13,931.52	37.14	517,405.57

PAWC - Water Operations
Water Operations
311.54 Pumping Equipment - Transmission
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *39* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	9,832,787.23	39.00	252,121.39	29.25	7,373,553.54

Composite Average Remaining Life ... 29.25 Years

PAWC - Water Operations
Water Operations
320.10 Purification System - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1900	14,836.59	0.00	0.00	0.00	0.00
1906	1,384.00	0.00	0.00	0.00	0.00
1907	187.12	0.00	0.00	0.00	0.00
1909	3,521.00	0.00	0.00	0.00	0.00
1910	1,630.96	0.00	0.00	0.00	0.00
1920	2.00	0.00	0.00	0.00	0.00
1921	42,429.29	0.00	0.00	0.00	0.00
1924	1,765.00	0.00	0.00	0.00	0.00
1927	254.95	0.00	0.00	0.00	0.00
1928	129.00	50.00	2.58	0.50	1.29
1929	42,469.93	50.00	849.40	0.64	545.85
1931	5,319.00	50.00	106.38	1.11	118.60
1935	11.26	50.00	0.23	2.17	0.49
1947	278.00	50.00	5.56	5.58	31.04
1949	13,578.96	50.00	271.58	6.18	1,679.67
1952	50.61	50.00	1.01	7.11	7.20
1954	493.00	50.00	9.86	7.74	76.30
1956	179.54	50.00	3.59	8.38	30.09
1957	787.21	50.00	15.74	8.71	137.06
1958	606.41	50.00	12.13	9.03	109.57
1959	26,258.68	50.00	525.17	9.37	4,919.09
1961	80,917.78	50.00	1,618.36	10.04	16,250.82
1962	5,481.82	50.00	109.64	10.38	1,138.52
1963	3,005.76	50.00	60.12	10.73	645.11
1964	977.76	50.00	19.56	11.08	216.71
1965	219,097.73	50.00	4,381.95	11.44	50,114.00
1966	310.40	50.00	6.21	11.80	73.22

PAWC - Water Operations
Water Operations
320.10 Purification System - Large
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 *Survivor Curve:* S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1967	148.24	50.00	2.96	12.16	36.05
1968	2,578.54	50.00	51.57	12.53	645.96
1969	1,371,104.67	50.00	27,422.09	12.90	353,679.78
1970	4,509.88	50.00	90.20	13.27	1,197.31
1971	359.30	50.00	7.19	13.66	98.13
1972	821,739.01	50.00	16,434.78	14.04	230,780.16
1973	30,712.90	50.00	614.26	14.43	8,866.06
1974	84.31	50.00	1.69	14.83	25.01
1975	159,756.91	50.00	3,195.14	15.23	48,671.72
1976	23,426.13	50.00	468.52	15.64	7,328.21
1977	915.82	50.00	18.32	16.05	294.07
1979	6,225.74	50.00	124.51	16.90	2,104.43
1980	1,374.20	50.00	27.48	17.33	476.40
1981	8,541.92	50.00	170.84	17.77	3,036.29
1982	2,891,214.73	50.00	57,824.29	18.22	1,053,500.93
1983	134,952.93	50.00	2,699.06	18.67	50,397.43
1984	5,629.18	50.00	112.58	19.13	2,154.04
1985	1,642,170.14	50.00	32,843.40	19.60	643,762.15
1986	185,615.98	50.00	3,712.32	20.08	74,532.08
1987	27,643.92	50.00	552.88	20.56	11,367.77
1988	5,166,890.45	50.00	103,337.81	21.05	2,175,628.49
1989	3,534,251.67	50.00	70,685.03	21.55	1,523,595.34
1990	18,102,018.39	50.00	362,040.36	22.06	7,988,352.03
1991	5,125,094.78	50.00	102,501.89	22.58	2,314,919.26
1992	10,124,512.86	50.00	202,490.25	23.11	4,680,171.13
1993	23,934,250.37	50.00	478,685.00	23.65	11,321,785.21
1994	1,782,077.58	50.00	35,641.55	24.20	862,555.31

PAWC - Water Operations
Water Operations
320.10 Purification System - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1995	4,832,185.62	50.00	96,643.71	24.76	2,392,932.65
1996	377,985.13	50.00	7,559.70	25.33	191,492.93
1997	9,236,235.56	50.00	184,724.71	25.91	4,786,656.92
1998	909,695.21	50.00	18,193.90	26.51	482,240.18
1999	9,758,668.73	50.00	195,173.37	27.11	5,291,296.87
2000	354,819.32	50.00	7,096.39	27.73	196,770.26
2001	1,104,340.71	50.00	22,086.81	28.36	626,346.94
2003	2,316.85	50.00	46.34	29.66	1,374.28
2004	38,706.38	50.00	774.13	30.33	23,478.41
2005	80,991.72	50.00	1,619.83	31.01	50,236.87
2006	5,577,814.71	50.00	111,556.29	31.71	3,537,769.27
2007	172,531.96	50.00	3,450.64	32.43	111,894.10
2008	552,727.09	50.00	11,054.54	33.16	366,530.30
2009	589,159.36	50.00	11,783.19	33.90	399,468.86
2010	371,618.85	50.00	7,432.38	34.66	257,625.10
2011	9,820,334.80	50.00	196,406.69	35.44	6,960,588.43
2012	19,590,099.99	50.00	391,801.99	36.23	14,196,234.89
2013	3,631,023.44	50.00	72,620.47	37.04	2,690,101.43
2014	2,099,707.76	50.00	41,994.15	37.87	1,590,323.79
2016	562,914.51	50.00	11,258.29	39.57	445,536.86
2017	368,747.99	50.00	7,374.96	40.45	298,325.72
2018	46,772,984.44	50.00	935,459.67	41.34	38,676,252.75
2019	1,284,580.07	50.00	25,691.60	42.25	1,085,578.53
2021	12,889,604.34	50.00	257,792.08	44.12	11,373,629.97
2022	144,098.02	50.00	2,881.96	45.07	129,899.71
2023	15,611,823.74	50.00	312,236.47	46.04	14,375,428.53
2024	49,463.77	50.00	989.28	47.02	46,514.09

PAWC - Water Operations
Water Operations
320.10 Purification System - Large

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2025	12,669,310.41	50.00	253,386.20	48.01	12,164,057.72
2026	13,689,941.20	50.00	273,798.82	49.00	13,416,379.40
2027	44,430,837.35	50.00	888,616.73	49.75	44,208,459.95
Total	293,129,033.34	44.64	5,861,260.34	36.48	213,809,481.04

Composite Average Remaining Life ... 36.48 Years

PAWC - Water Operations
Water Operations
320.11 Purification System - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1953	7,055.41	50.00	141.11	7.42	1,047.27
1954	8,210.70	50.00	164.21	7.74	1,270.70
1955	9,385.40	50.00	187.71	8.06	1,512.44
1956	11,057.33	50.00	221.15	8.38	1,853.18
1957	5,382.78	50.00	107.66	8.71	937.19
1958	66,539.30	50.00	1,330.79	9.03	12,022.79
1959	8,175.25	50.00	163.50	9.37	1,531.48
1960	5,799.28	50.00	115.99	9.70	1,125.33
1961	147.26	50.00	2.95	10.04	29.57
1962	6,509.57	50.00	130.19	10.38	1,351.97
1963	310.10	50.00	6.20	10.73	66.55
1964	1,453.42	50.00	29.07	11.08	322.13
1965	6,998.03	50.00	139.96	11.44	1,600.65
1966	1,670.07	50.00	33.40	11.80	393.98
1967	5,928.00	50.00	118.56	12.16	1,441.48
1968	436.82	50.00	8.74	12.53	109.43
1969	18,030.17	50.00	360.60	12.90	4,650.93
1970	822.59	50.00	16.45	13.27	218.39
1971	1,688.64	50.00	33.77	13.66	461.19
1972	26,138.75	50.00	522.77	14.04	7,340.90
1973	225,989.13	50.00	4,519.78	14.43	65,237.53
1974	128.42	50.00	2.57	14.83	38.09
1975	9,465.41	50.00	189.31	15.23	2,883.74
1976	1,555.09	50.00	31.10	15.64	486.47
1977	2,358.22	50.00	47.16	16.05	757.22
1978	11,163.75	50.00	223.27	16.47	3,678.43
1979	5,020.55	50.00	100.41	16.90	1,697.05

PAWC - Water Operations
Water Operations
320.11 Purification System - Other
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1980	3,044.35	50.00	60.89	17.33	1,055.39
1981	4,512.29	50.00	90.25	17.77	1,603.93
1982	15,060.48	50.00	301.21	18.22	5,487.74
1983	84,466.86	50.00	1,689.34	18.67	31,543.68
1984	34,749.27	50.00	694.99	19.13	13,297.01
1985	327,526.33	50.00	6,550.53	19.60	128,396.59
1986	365,793.08	50.00	7,315.86	20.08	146,880.24
1987	32,910.13	50.00	658.20	20.56	13,533.35
1988	110,808.09	50.00	2,216.16	21.05	46,658.09
1989	574,911.87	50.00	11,498.24	21.55	247,841.16
1990	356,708.15	50.00	7,134.16	22.06	157,413.95
1991	110,453.31	50.00	2,209.07	22.58	49,889.91
1992	61.17	50.00	1.22	23.11	28.28
1993	3,727.98	50.00	74.56	23.65	1,763.47
1994	797,347.87	50.00	15,946.96	24.20	385,929.68
1995	25,382.09	50.00	507.64	24.76	12,569.39
1996	489,121.46	50.00	9,782.43	25.33	247,796.26
1997	139,585.89	50.00	2,791.72	25.91	72,340.05
1998	473.79	50.00	9.48	26.51	251.16
1999	23.05	50.00	0.46	27.11	12.50
2000	1,045.99	50.00	20.92	27.73	580.07
2001	699.48	50.00	13.99	28.36	396.72
2002	746,231.18	50.00	14,924.62	29.00	432,838.79
2003	168,655.47	50.00	3,373.11	29.66	100,040.87
2004	22,417.11	50.00	448.34	30.33	13,597.71
2005	39,277.86	50.00	785.56	31.01	24,362.94
2006	435,263.67	50.00	8,705.27	31.71	276,069.13

PAWC - Water Operations
Water Operations
320.11 Purification System - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2007	314,674.62	50.00	6,293.49	32.43	204,079.48
2008	240,770.18	50.00	4,815.40	33.16	159,662.10
2009	276,207.99	50.00	5,524.16	33.90	187,277.84
2010	1,772.42	50.00	35.45	34.66	1,228.73
2011	103,642.11	50.00	2,072.84	35.44	73,460.84
2012	1,245,479.31	50.00	24,909.59	36.23	902,553.68
2013	848,184.88	50.00	16,963.70	37.04	628,391.25
2014	257,350.31	50.00	5,147.01	37.87	194,917.75
2016	135,115.49	50.00	2,702.31	39.57	106,941.52
2017	231,980.84	50.00	4,639.62	40.45	187,677.91
2018	1,122,458.05	50.00	22,449.16	41.34	928,152.69
2019	1,936,349.67	50.00	38,726.99	42.25	1,636,378.83
2020	684,028.65	50.00	13,680.57	43.18	590,718.47
2021	1,723,091.03	50.00	34,461.82	44.12	1,520,434.55
2023	152,104.23	50.00	3,042.08	46.04	140,058.17
2026	3,398,229.10	50.00	67,964.58	49.00	3,330,323.35
2027	3,168,938.21	50.00	63,378.76	49.75	3,153,077.60
Total	21,178,054.80	50.00	423,561.09	38.89	16,471,578.94

Composite Average Remaining Life ... 38.89 Years

PAWC - Water Operations
Water Operations
320.20 Chemical Treatment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *42* ***Survivor Curve:*** *R0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1973	242,489.01	42.00	5,773.47	12.75	73,615.10
1974	31,941.16	42.00	760.49	13.17	10,018.13
1975	42,769.93	42.00	1,018.32	13.60	13,849.41
1976	1,073,863.59	42.00	25,567.85	14.03	358,757.92
1977	28,840.00	42.00	686.66	14.47	9,934.25
1978	51,727.94	42.00	1,231.60	14.91	18,360.92
1979	20,509.89	42.00	488.32	15.35	7,497.58
1980	61,671.01	42.00	1,468.34	15.80	23,205.76
1981	192,581.16	42.00	4,585.21	16.26	74,553.29
1982	7,527.22	42.00	179.22	16.72	2,996.59
1983	79,951.11	42.00	1,903.57	17.19	32,715.52
1984	292,693.25	42.00	6,968.80	17.66	123,054.64
1985	978,744.46	42.00	23,303.14	18.13	422,595.30
1986	2,083,104.19	42.00	49,597.07	18.62	923,338.34
1987	719,004.40	42.00	17,118.93	19.10	327,055.50
1988	111,285.48	42.00	2,649.62	19.60	51,927.49
1989	1,052,756.10	42.00	25,065.29	20.10	503,741.81
1990	436,377.41	42.00	10,389.80	20.60	214,045.66
1991	706,070.04	42.00	16,810.97	21.11	354,899.76
1992	4,299,099.40	42.00	102,358.18	21.63	2,213,691.49
1993	99,614.98	42.00	2,371.75	22.15	52,528.60
1994	739,039.18	42.00	17,595.94	22.67	398,960.06
1995	4,638,977.20	42.00	110,450.40	23.21	2,563,030.40
1996	2,154,720.70	42.00	51,302.21	23.74	1,217,997.23
1997	3,334,739.32	42.00	79,397.52	24.28	1,928,048.96
1998	2,072,021.04	42.00	49,333.19	24.83	1,224,937.36
1999	7,194,288.92	42.00	171,290.36	25.38	4,347,499.28

PAWC - Water Operations
Water Operations
320.20 Chemical Treatment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 42 **Survivor Curve:** R0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2000	67,552.81	42.00	1,608.38	25.94	41,716.68
2001	2,457,933.54	42.00	58,521.46	26.50	1,550,653.17
2002	77,713.84	42.00	1,850.31	27.06	50,071.70
2003	1,964,206.88	42.00	46,766.22	27.63	1,292,162.11
2004	1,990,696.83	42.00	47,396.93	28.20	1,336,701.40
2005	2,161,553.64	42.00	51,464.89	28.78	1,481,074.89
2006	499,472.13	42.00	11,892.04	29.36	349,118.82
2007	1,947,345.46	42.00	46,364.76	29.94	1,388,129.48
2008	1,350,615.98	42.00	32,157.10	30.52	981,584.77
2009	82,919.55	42.00	1,974.25	31.11	61,423.09
2010	438,539.91	42.00	10,441.29	31.70	331,012.42
2011	1,033,930.77	42.00	24,617.08	32.29	794,990.64
2012	685,575.24	42.00	16,323.01	32.89	536,832.85
2013	1,516,285.09	42.00	36,101.56	33.48	1,208,826.64
2014	304,829.68	42.00	7,257.75	34.08	247,353.70
2015	3,645,945.28	42.00	86,807.09	34.68	3,010,464.82
2016	4,980,688.04	42.00	118,586.27	35.28	4,183,784.20
2017	2,403,250.89	42.00	57,219.51	35.88	2,053,163.84
2018	1,114,876.03	42.00	26,544.32	36.49	968,492.62
2019	3,459,004.02	42.00	82,356.17	37.09	3,054,669.74
2020	7,834,644.60	42.00	186,536.73	37.70	7,032,008.20
2021	11,081,791.67	42.00	263,848.75	38.31	10,107,178.52
2022	13,412,801.43	42.00	319,348.25	38.92	12,428,154.06
2023	17,240,492.29	42.00	410,482.56	39.53	16,226,216.86
2024	10,795,822.82	42.00	257,040.05	40.14	10,318,744.46
2025	37,804,284.62	42.00	900,090.29	40.76	36,688,536.94
2026	1,397,771.11	42.00	33,279.83	41.38	1,377,114.07

PAWC - Water Operations
Water Operations
320.20 Chemical Treatment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *42* ***Survivor Curve:*** *R0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2027	3,115,929.56	42.00	74,187.83	41.84	3,104,385.10
Total	167,612,881.80	42.00	3,990,730.91	35.01	139,697,422.15

Composite Average Remaining Life ... 35.01 Years

PAWC - Water Operations
Water Operations
320.30 Granular Activated Carbon
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 11 **Survivor Curve:** L0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1992	755.89	11.00	68.71	1.67	114.50
1994	3,127.19	11.00	284.25	1.93	548.56
1995	22,529.51	11.00	2,047.85	2.06	4,210.04
1996	19,021.10	11.00	1,728.95	2.17	3,756.67
1998	24,638.62	11.00	2,239.56	2.38	5,335.79
1999	9,019.00	11.00	819.79	2.48	2,035.70
2000	242,357.48	11.00	22,029.42	2.59	56,962.29
2001	565,915.16	11.00	51,439.64	2.70	138,732.59
2002	259,574.29	11.00	23,594.36	2.82	66,478.44
2003	11,549.71	11.00	1,049.83	2.95	3,095.79
2007	133,689.45	11.00	12,151.89	3.59	43,631.67
2008	22,525.60	11.00	2,047.50	3.78	7,740.12
2009	290,056.89	11.00	26,365.12	3.98	104,979.42
2010	252,059.62	11.00	22,911.31	4.20	96,113.35
2011	762,602.88	11.00	69,317.84	4.42	306,369.99
2012	382,409.40	11.00	34,759.63	4.66	161,888.71
2013	1,278,638.81	11.00	116,223.63	4.91	570,378.48
2014	648,647.47	11.00	58,959.70	5.17	304,875.17
2015	2,088.22	11.00	189.81	5.45	1,034.07
2016	110,250.14	11.00	10,021.34	5.74	57,513.93
2017	406,505.55	11.00	36,949.88	6.05	223,379.08
2018	1,504,916.77	11.00	136,791.48	6.37	871,038.15
2019	1,347,102.38	11.00	122,446.72	6.71	821,197.21
2020	874,697.64	11.00	79,506.84	7.06	561,574.70
2021	768,470.48	11.00	69,851.18	7.44	519,658.17
2022	3,315,089.96	11.00	301,329.66	7.85	2,365,561.27
2023	7,727,540.14	11.00	702,405.38	8.32	5,841,973.05

PAWC - Water Operations
Water Operations
320.30 Granular Activated Carbon

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *11* ***Survivor Curve:*** *L0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2024	2,226,099.32	11.00	202,344.36	8.86	1,791,827.18
2025	799,177.36	11.00	72,642.32	9.47	688,211.59
Total	24,011,056.03	11.00	2,182,517.92	7.16	15,620,215.68

Composite Average Remaining Life ... 7.16 Years

PAWC - Water Operations
Water Operations
320.37 Waste Handling and Treatment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *30* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1991	6,031,805.84	30.00	201,059.90	3.78	760,078.11
1997	591,680.33	30.00	19,722.65	6.06	119,494.73
1999	1,596,632.54	30.00	53,221.01	7.06	375,772.42
2000	699,453.00	30.00	23,315.07	7.61	177,382.43
2002	3,157.82	30.00	105.26	8.79	925.62
2003	255,901.42	30.00	8,530.03	9.43	80,418.54
2004	25,359.24	30.00	845.31	10.09	8,526.89
2005	13,973.57	30.00	465.78	10.77	5,017.89
2013	15,011.73	30.00	500.39	16.98	8,494.49
2014	585,331.37	30.00	19,511.02	17.83	347,881.67
2015	1,026,831.36	30.00	34,227.66	18.70	640,008.35
2016	3,706,337.79	30.00	123,544.41	19.58	2,419,177.60
2017	16,485.57	30.00	549.52	20.48	11,253.53
2023	749,793.89	30.00	24,993.09	26.10	652,266.13
2025	5,307,125.52	30.00	176,903.92	28.04	4,960,049.51
2026	10,000.00	30.00	333.33	29.02	9,672.29
Total	20,634,880.99	30.00	687,828.35	15.38	10,576,420.21

Composite Average Remaining Life ... 15.38 Years

PAWC - Water Operations
Water Operations
330.00 Distribution Reservoirs
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 65 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1906	5,109.66	65.00	78.61	3.17	249.59
1907	47,241.62	65.00	726.79	3.52	2,559.79
1911	21,098.83	65.00	324.60	4.86	1,576.96
1912	4,854.07	65.00	74.68	5.20	388.08
1922	37,387.44	65.00	575.19	8.55	4,916.49
1923	14,226.55	65.00	218.87	8.88	1,943.74
1924	1,157.77	65.00	17.81	9.22	164.18
1929	2,414.86	65.00	37.15	10.92	405.79
1931	5,386.24	65.00	82.87	11.61	962.22
1933	64.84	65.00	1.00	12.31	12.28
1935	288.99	65.00	4.45	13.01	57.83
1938	6,784.14	65.00	104.37	14.07	1,468.52
1940	15,662.18	65.00	240.96	14.79	3,563.51
1941	8,303.02	65.00	127.74	15.15	1,935.31
1943	64.86	65.00	1.00	15.88	15.85
1949	20,278.60	65.00	311.98	18.13	5,656.44
1950	11,200.00	65.00	172.31	18.51	3,190.17
1951	84,442.64	65.00	1,299.12	18.90	24,554.90
1952	1,053.28	65.00	16.20	19.29	312.59
1953	765,700.78	65.00	11,780.00	19.68	231,864.00
1954	134,575.67	65.00	2,070.39	20.08	41,568.88
1955	58,990.21	65.00	907.54	20.48	18,583.13
1956	48,644.49	65.00	748.38	20.88	15,624.22
1957	84,452.90	65.00	1,299.27	21.28	27,651.67
1958	76,240.83	65.00	1,172.93	21.69	25,441.09
1959	166,796.84	65.00	2,566.10	22.10	56,715.06
1960	24,552.85	65.00	377.74	22.52	8,505.21

PAWC - Water Operations
Water Operations
330.00 Distribution Reservoirs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 65 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1961	401,183.97	65.00	6,172.06	22.93	141,554.55
1962	186,962.54	65.00	2,876.34	23.36	67,181.96
1963	15,157.25	65.00	233.19	23.78	5,545.81
1964	45,588.11	65.00	701.35	24.21	16,981.31
1965	55,626.04	65.00	855.78	24.65	21,091.49
1966	394,465.55	65.00	6,068.70	25.08	152,223.08
1967	806,984.51	65.00	12,415.13	25.53	316,899.06
1968	282,717.71	65.00	4,349.50	25.97	112,960.99
1969	84,335.85	65.00	1,297.47	26.42	34,281.33
1970	69,869.85	65.00	1,074.92	26.88	28,889.66
1971	407,403.58	65.00	6,267.74	27.34	171,333.69
1972	173,285.68	65.00	2,665.93	27.80	74,111.27
1973	3,532,689.75	65.00	54,349.02	28.27	1,536,374.67
1974	749,158.82	65.00	11,525.51	28.74	331,263.91
1975	390,034.66	65.00	6,000.53	29.22	175,342.35
1976	399,924.61	65.00	6,152.68	29.71	182,767.31
1977	199,610.20	65.00	3,070.92	30.19	92,723.95
1978	447,321.54	65.00	6,881.86	30.69	211,198.19
1979	304,051.08	65.00	4,677.70	31.19	145,891.64
1980	1,076.03	65.00	16.55	31.69	524.69
1981	54,623.64	65.00	840.36	32.21	27,064.64
1982	1,047,267.09	65.00	16,111.79	32.72	527,242.35
1983	1,394,266.63	65.00	21,450.24	33.25	713,150.62
1984	32,354.18	65.00	497.76	33.78	16,812.88
1985	1,752,002.99	65.00	26,953.87	34.31	924,853.61
1986	1,778,699.21	65.00	27,364.58	34.86	953,822.59
1987	240,248.85	65.00	3,696.13	35.40	130,858.61

PAWC - Water Operations
Water Operations
330.00 Distribution Reservoirs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1988	3,095,526.72	65.00	47,623.44	35.96	1,712,612.33
1989	5,055,328.77	65.00	77,774.22	36.53	2,840,715.23
1990	6,129,161.37	65.00	94,294.70	37.09	3,497,848.77
1991	675,140.24	65.00	10,386.76	37.67	391,301.66
1992	1,315,378.04	65.00	20,236.57	38.26	774,198.63
1993	7,639,604.37	65.00	117,532.27	38.85	4,566,246.23
1994	2,027,808.17	65.00	31,197.02	39.45	1,230,740.75
1995	1,585,876.37	65.00	24,398.08	40.06	977,392.52
1996	3,624,223.56	65.00	55,757.23	40.68	2,267,969.87
1997	2,280,357.49	65.00	35,082.39	41.30	1,448,981.20
1998	1,215,386.77	65.00	18,698.24	41.93	784,101.66
1999	5,099,721.28	65.00	78,457.18	42.58	3,340,590.68
2000	3,634,244.00	65.00	55,911.40	43.23	2,416,952.19
2001	5,032,730.61	65.00	77,426.55	43.89	3,398,300.47
2002	2,276,714.48	65.00	35,026.34	44.56	1,560,819.92
2003	2,410,479.28	65.00	37,084.26	45.24	1,677,694.98
2004	1,519,412.36	65.00	23,375.55	45.93	1,073,646.17
2005	3,825,628.33	65.00	58,855.77	46.63	2,744,359.38
2006	2,881,396.25	65.00	44,329.13	47.34	2,098,503.10
2007	1,534,816.04	65.00	23,612.53	48.06	1,134,763.95
2008	236,167.51	65.00	3,633.34	48.79	177,269.06
2009	24,836.32	65.00	382.10	49.53	18,924.96
2010	797,440.05	65.00	12,268.30	50.28	616,888.34
2011	249,853.14	65.00	3,843.89	51.04	196,210.72
2012	1,177,587.89	65.00	18,116.72	51.82	938,838.93
2013	4,260,578.06	65.00	65,547.29	52.61	3,448,195.75
2014	6,068,629.18	65.00	93,363.44	53.41	4,986,255.35

PAWC - Water Operations
Water Operations
330.00 Distribution Reservoirs

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2015	376,780.65	65.00	5,796.62	54.22	314,283.99
2016	8,406,094.89	65.00	129,324.42	55.04	7,118,095.69
2017	5,265,669.74	65.00	81,010.23	55.88	4,526,636.44
2018	3,560,709.42	65.00	54,780.09	56.72	3,107,379.30
2019	3,422,777.21	65.00	52,658.06	57.59	3,032,445.07
2021	2,281,005.92	65.00	35,092.37	59.35	2,082,767.51
2022	2,653,783.47	65.00	40,827.40	60.25	2,459,922.43
2023	2,840,290.76	65.00	43,696.74	61.17	2,672,954.53
2024	6,704,284.79	65.00	103,142.75	62.10	6,405,195.14
2025	6,304,653.01	65.00	96,994.57	63.05	6,115,522.69
2026	15,435,420.79	65.00	237,467.80	64.01	15,200,797.31
2027	19,064,527.23	65.00	293,300.15	64.75	18,991,977.37
Total	168,883,908.61	65.00	2,598,211.61	50.01	129,941,133.93

Composite Average Remaining Life ... 50.01 Years

PAWC - Water Operations
Water Operations
330.10 Elevated Tanks

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1992	189,738.86	65.00	2,919.06	38.26	111,675.55
1994	0.01	65.00	0.00	39.45	0.01
2007	109,596.89	65.00	1,686.10	48.06	81,030.30
2008	452,291.74	65.00	6,958.33	48.79	339,493.49
2009	610,424.47	65.00	9,391.14	49.53	465,135.63
2010	876,241.28	65.00	13,480.62	50.28	677,847.85
2011	1.21	65.00	0.02	51.04	0.95
2012	70,427.57	65.00	1,083.50	51.82	56,148.80
2013	7,305,295.42	65.00	112,389.06	52.61	5,912,364.06
2014	402,306.06	65.00	6,189.32	53.41	330,552.53
2015	75,692.00	65.00	1,164.49	54.22	63,136.96
2017	22,485.50	65.00	345.93	55.88	19,329.67
2018	41,920.13	65.00	644.92	56.72	36,583.09
2019	3,889.76	65.00	59.84	57.59	3,446.17
2021	3,743,807.08	65.00	57,596.98	59.35	3,418,439.07
2023	73,266.92	65.00	1,127.18	61.17	68,950.39
2024	3,546,697.40	65.00	54,564.53	62.10	3,388,473.14
2026	574,619.17	65.00	8,840.29	64.01	565,884.77
Total	18,098,701.47	65.00	278,441.31	55.81	15,538,492.42

Composite Average Remaining Life ... 55.81 Years

PAWC - Water Operations
Water Operations
330.20 Ground Level Facilities

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2004	411,560.09	65.00	6,331.69	45.93	290,816.32
2007	729,975.76	65.00	11,230.39	48.06	539,706.49
2008	37,653.40	65.00	579.28	48.79	28,262.92
2009	21,769.28	65.00	334.91	49.53	16,587.91
2010	13,139.81	65.00	202.15	50.28	10,164.77
2011	261,613.14	65.00	4,024.81	51.04	205,445.90
2012	1,944,284.21	65.00	29,912.04	51.82	1,550,092.12
2013	5,126,495.63	65.00	78,869.09	52.61	4,149,005.18
2014	4,119,155.97	65.00	63,371.57	53.41	3,384,481.55
2015	141,079.99	65.00	2,170.46	54.22	117,679.03
2016	1,686,605.76	65.00	25,947.76	55.04	1,428,180.55
2017	150,532.79	65.00	2,315.89	55.88	129,405.61
2018	115,120.43	65.00	1,771.08	56.72	100,463.92
2019	33,498.57	65.00	515.36	57.59	29,678.41
2021	3,736,874.95	65.00	57,490.33	59.35	3,412,109.40
2023	129,755.90	65.00	1,996.24	61.17	122,111.31
2025	461,649.62	65.00	7,102.30	63.05	447,800.81
Total	19,120,765.30	65.00	294,165.35	54.26	15,961,992.20

Composite Average Remaining Life ... 54.26 Years

PAWC - Water Operations
Water Operations
330.30 Below Grade Facilities

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2007	173,959.09	65.00	2,676.29	48.06	128,616.39
2010	31,397.64	65.00	483.04	50.28	24,288.77
2011	100,934.51	65.00	1,552.84	51.04	79,264.29
2014	280,555.88	65.00	4,316.24	53.41	230,517.18
2016	231,860.11	65.00	3,567.08	55.04	196,334.03
Total	818,707.23	65.00	12,595.48	52.32	659,020.66

Composite Average Remaining Life ... 52.32 Years

PAWC - Water Operations
Water Operations
330.40 Clearwell

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1959	5,027.02	65.00	77.34	22.10	1,709.31
1977	63,020.50	65.00	969.55	30.19	29,274.60
1978	7,099.25	65.00	109.22	30.69	3,351.84
1986	137,509.65	65.00	2,115.53	34.86	73,739.17
1987	14,473.99	65.00	222.68	35.40	7,883.68
2012	12,757,639.44	65.00	196,271.20	51.82	10,171,103.74
2017	19,388.28	65.00	298.28	55.88	16,667.15
2018	32,046.45	65.00	493.02	56.72	27,966.47
2019	5,251.81	65.00	80.80	57.59	4,652.90
2020	24,652.20	65.00	379.26	58.46	22,172.13
2025	6,504,069.56	65.00	100,062.52	63.05	6,308,957.03
2026	100,000.02	65.00	1,538.46	64.01	98,479.99
Total	19,670,178.17	65.00	302,617.85	55.40	16,765,958.01

Composite Average Remaining Life ... 55.40 Years

PAWC - Water Operations
Water Operations
331.00 Mains and Accessories

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 90 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1901	144,146.78	90.00	1,601.63	11.50	18,421.89
1902	138,780.68	90.00	1,542.01	11.80	18,199.92
1903	240,460.12	90.00	2,671.78	12.11	32,343.08
1904	75,565.46	90.00	839.62	12.41	10,419.85
1905	402,308.59	90.00	4,470.09	12.72	56,847.91
1906	235,011.70	90.00	2,611.24	13.02	33,996.83
1907	1,415,969.60	90.00	15,732.97	13.33	209,742.29
1908	418,101.53	90.00	4,645.57	13.65	63,395.64
1909	278,448.34	90.00	3,093.87	13.96	43,205.58
1910	235,204.23	90.00	2,613.38	14.29	37,337.01
1911	124,585.96	90.00	1,384.29	14.61	20,227.98
1912	219,538.56	90.00	2,439.31	14.94	36,448.61
1913	85,592.40	90.00	951.03	15.28	14,527.72
1914	398,878.73	90.00	4,431.98	15.61	69,200.01
1915	235,961.43	90.00	2,621.79	15.95	41,824.10
1916	1,009,243.48	90.00	11,213.80	16.30	182,778.53
1917	120,984.44	90.00	1,344.27	16.65	22,383.78
1918	70,831.01	90.00	787.01	17.01	13,385.58
1919	119,506.37	90.00	1,327.85	17.37	23,064.95
1920	234,850.42	90.00	2,609.45	17.74	46,285.18
1921	231,288.59	90.00	2,569.87	18.11	46,541.22
1922	203,713.78	90.00	2,263.48	18.49	41,848.80
1923	1,558,602.00	90.00	17,317.78	18.87	326,832.22
1924	849,894.21	90.00	9,443.26	19.26	181,894.75
1925	649,353.06	90.00	7,215.02	19.66	141,830.69
1926	1,283,985.77	90.00	14,266.49	20.06	286,178.86
1927	224,085.34	90.00	2,489.83	20.47	50,960.50

PAWC - Water Operations
Water Operations
331.00 Mains and Accessories

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 90 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1928	347,334.09	90.00	3,859.26	20.88	80,587.20
1929	183,116.29	90.00	2,034.62	21.30	43,341.09
1930	148,366.57	90.00	1,648.52	21.73	35,819.49
1931	218,822.25	90.00	2,431.35	22.16	53,881.76
1932	65,736.09	90.00	730.40	22.60	16,507.36
1933	37,680.84	90.00	418.68	23.05	9,649.55
1934	77,273.66	90.00	858.59	23.50	20,177.29
1935	130,869.23	90.00	1,454.10	23.96	34,839.39
1936	102,146.07	90.00	1,134.95	24.42	27,721.26
1937	162,080.68	90.00	1,800.89	24.90	44,837.06
1938	76,354.20	90.00	848.38	25.38	21,528.27
1939	157,361.44	90.00	1,748.46	25.86	45,216.86
1940	121,106.68	90.00	1,345.63	26.35	35,461.03
1941	113,644.36	90.00	1,262.71	26.85	33,905.24
1942	89,626.34	90.00	995.85	27.36	27,245.37
1943	77,423.59	90.00	860.26	27.87	23,976.35
1944	41,497.62	90.00	461.08	28.39	13,089.98
1945	225,743.50	90.00	2,508.26	28.91	72,525.35
1946	311,316.49	90.00	3,459.07	29.45	101,856.36
1947	275,224.41	90.00	3,058.04	29.98	91,693.06
1948	274,434.79	90.00	3,049.27	30.53	93,090.23
1949	116,988.68	90.00	1,299.87	31.08	40,399.45
1950	134,689.76	90.00	1,496.55	31.64	47,346.07
1951	427,677.00	90.00	4,751.96	32.20	153,032.14
1952	396,107.87	90.00	4,401.19	32.77	144,247.09
1953	924,340.36	90.00	10,270.43	33.35	342,532.80
1954	1,255,241.82	90.00	13,947.11	33.93	473,286.15

PAWC - Water Operations
Water Operations
331.00 Mains and Accessories

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 90 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1955	2,719,403.00	90.00	30,215.55	34.52	1,043,147.05
1956	1,448,560.90	90.00	16,095.10	35.12	565,240.81
1957	2,134,689.56	90.00	23,718.74	35.72	847,237.75
1958	1,837,291.51	90.00	20,414.32	36.33	741,602.88
1959	2,098,484.01	90.00	23,316.46	36.94	861,332.27
1960	2,803,729.87	90.00	31,152.51	37.56	1,170,213.18
1961	3,572,993.92	90.00	39,699.88	38.19	1,516,131.76
1962	1,386,480.71	90.00	15,405.32	38.82	598,057.06
1963	1,988,217.26	90.00	22,091.27	39.46	871,696.04
1964	4,773,468.40	90.00	53,038.46	40.10	2,126,944.66
1965	4,591,514.82	90.00	51,016.76	40.75	2,078,966.55
1966	3,924,298.57	90.00	43,603.26	41.40	1,805,392.15
1967	5,460,043.48	90.00	60,667.06	42.06	2,551,950.58
1968	5,408,195.66	90.00	60,090.98	42.73	2,567,698.89
1969	4,832,841.08	90.00	53,698.16	43.40	2,330,745.88
1970	3,717,790.65	90.00	41,308.73	44.08	1,820,944.51
1971	5,306,573.15	90.00	58,961.84	44.76	2,639,334.05
1972	8,105,168.39	90.00	90,057.30	45.45	4,093,172.01
1973	8,137,275.61	90.00	90,414.04	46.14	4,171,999.22
1974	4,841,267.29	90.00	53,791.78	46.84	2,519,657.21
1975	5,871,387.73	90.00	65,237.55	47.54	3,101,632.78
1976	9,731,705.66	90.00	108,129.91	48.25	5,217,429.02
1977	6,080,185.63	90.00	67,557.52	48.96	3,307,903.69
1978	9,761,490.39	90.00	108,460.85	49.69	5,388,912.27
1979	8,743,046.74	90.00	97,144.82	50.41	4,896,924.53
1980	12,143,597.77	90.00	134,928.67	51.14	6,899,778.06
1981	8,351,987.63	90.00	92,799.73	51.87	4,813,452.35

PAWC - Water Operations
Water Operations
331.00 Mains and Accessories

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *90* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1982	6,111,003.14	90.00	67,899.94	52.61	3,571,993.64
1983	9,892,385.81	90.00	109,915.24	53.35	5,863,854.42
1984	14,724,422.86	90.00	163,604.46	54.10	8,850,290.22
1985	18,485,037.25	90.00	205,389.01	54.85	11,264,970.87
1986	24,334,717.23	90.00	270,385.36	55.60	15,034,205.96
1987	25,761,395.34	90.00	286,237.32	56.37	16,134,128.84
1988	34,925,333.79	90.00	388,058.71	57.13	22,170,409.38
1989	32,209,570.77	90.00	357,883.61	57.90	20,721,920.29
1990	33,744,028.82	90.00	374,933.12	58.68	21,999,315.73
1991	21,778,710.46	90.00	241,985.33	59.45	14,386,904.93
1992	25,526,379.79	90.00	283,626.04	60.24	17,084,547.82
1993	36,053,908.37	90.00	400,598.41	61.02	24,445,689.13
1994	39,063,208.37	90.00	434,035.03	61.81	26,829,376.89
1995	48,818,082.65	90.00	542,422.36	62.61	33,960,459.57
1996	40,736,175.63	90.00	452,623.53	63.41	28,701,165.70
1997	35,914,447.44	90.00	399,048.85	64.21	25,624,633.02
1998	89,366,715.94	90.00	992,962.09	65.02	64,564,232.08
1999	54,189,259.60	90.00	602,102.02	65.83	39,638,391.46
2000	56,992,397.24	90.00	633,247.95	66.65	42,205,176.51
2001	63,372,702.39	90.00	704,140.13	67.47	47,506,910.17
2002	65,328,164.47	90.00	725,867.46	68.29	49,570,229.76
2003	23,861,672.57	90.00	265,129.32	69.12	18,325,165.67
2004	63,972,510.50	90.00	710,804.66	69.95	49,719,632.58
2005	59,640,593.12	90.00	662,672.31	70.78	46,907,245.10
2006	14,301,603.32	90.00	158,906.48	71.62	11,381,399.16
2007	76,010,752.92	90.00	844,562.71	72.47	61,201,335.83
2008	94,945,127.46	90.00	1,054,944.35	73.31	77,338,536.20

PAWC - Water Operations
Water Operations
331.00 Mains and Accessories

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: ***90*** ***Survivor Curve:*** ***R2***

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2009	89,285,169.49	90.00	992,056.02	74.16	73,570,327.35
2010	93,198,584.08	90.00	1,035,538.34	75.01	77,677,618.61
2011	114,759,794.78	90.00	1,275,107.01	75.87	96,739,361.93
2012	106,676,130.74	90.00	1,185,288.65	76.73	90,943,428.40
2013	142,282,837.54	90.00	1,580,918.16	77.59	122,662,397.80
2014	131,158,688.67	90.00	1,457,316.68	78.46	114,337,028.05
2015	164,536,314.04	90.00	1,828,178.65	79.33	145,023,311.58
2016	173,284,311.42	90.00	1,925,378.48	80.20	154,414,000.39
2017	117,007,142.84	90.00	1,300,077.51	81.08	105,403,903.79
2018	152,048,916.40	90.00	1,689,429.99	81.95	138,455,531.47
2019	163,048,408.09	90.00	1,811,646.39	82.84	150,069,499.83
2020	178,325,461.81	90.00	1,981,391.19	83.72	165,883,999.07
2021	127,290,685.69	90.00	1,414,338.93	84.61	119,665,785.05
2022	194,361,094.68	90.00	2,159,564.63	85.50	184,642,597.12
2023	251,979,959.10	90.00	2,799,773.32	86.40	241,887,860.33
2024	232,169,734.41	90.00	2,579,660.03	87.29	225,185,010.23
2025	270,424,506.85	90.00	3,004,712.45	88.19	264,992,550.71
2026	172,781,928.24	90.00	1,919,796.46	89.09	171,044,014.62
2027	63,650,812.31	90.00	707,230.24	89.77	63,490,754.84
Total	4,205,799,575.08	90.00	46,731,039.56	76.73	3,585,836,516.03

Composite Average Remaining Life ... 76.73 Years

PAWC - Water Operations
Water Operations
333.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 65 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1949	14,826.52	65.00	228.10	10.65	2,429.64
1950	48,490.93	65.00	746.01	10.96	8,173.99
1951	99,807.03	65.00	1,535.49	11.27	17,310.69
1952	161,901.82	65.00	2,490.79	11.60	28,891.90
1953	162,252.96	65.00	2,496.20	11.94	29,798.45
1954	182,970.22	65.00	2,814.92	12.29	34,584.34
1955	296,903.85	65.00	4,567.74	12.65	57,769.25
1956	382,692.04	65.00	5,887.56	13.02	76,658.16
1957	383,923.71	65.00	5,906.51	13.41	79,182.67
1958	469,461.37	65.00	7,222.47	13.81	99,707.35
1959	596,586.65	65.00	9,178.24	14.22	130,480.85
1960	621,865.29	65.00	9,567.14	14.64	140,085.88
1961	579,429.91	65.00	8,914.29	15.08	134,424.98
1962	632,540.73	65.00	9,731.38	15.53	151,159.02
1963	530,529.98	65.00	8,161.99	16.00	130,586.46
1964	489,640.57	65.00	7,532.92	16.48	124,124.06
1965	742,343.34	65.00	11,420.65	16.97	193,817.62
1966	751,320.94	65.00	11,558.76	17.48	201,992.50
1967	796,817.62	65.00	12,258.71	18.00	220,597.10
1968	924,731.91	65.00	14,226.62	18.53	263,551.56
1969	1,014,411.14	65.00	15,606.30	19.07	297,627.27
1970	1,113,798.39	65.00	17,135.33	19.63	336,296.35
1971	1,309,049.11	65.00	20,139.18	20.20	406,742.12
1972	1,424,043.87	65.00	21,908.33	20.78	455,152.84
1973	1,894,697.73	65.00	29,149.15	21.37	622,911.74
1974	1,102,192.23	65.00	16,956.78	21.97	372,563.28
1975	669,083.16	65.00	10,293.57	22.59	232,516.18

PAWC - Water Operations
Water Operations
333.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 65 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1976	874,797.99	65.00	13,458.41	23.21	312,436.46
1977	1,235,628.33	65.00	19,009.64	23.85	453,382.58
1978	1,713,318.04	65.00	26,358.70	24.50	645,723.23
1979	2,639,625.23	65.00	40,609.55	25.15	1,021,438.82
1980	2,419,427.97	65.00	37,221.91	25.82	961,065.53
1981	2,357,188.38	65.00	36,264.38	26.49	960,786.51
1982	2,351,916.68	65.00	36,183.27	27.18	983,460.12
1983	2,667,261.54	65.00	41,034.72	27.87	1,143,720.17
1984	3,165,192.54	65.00	48,695.19	28.58	1,391,509.40
1985	3,484,979.26	65.00	53,614.98	29.29	1,570,120.63
1986	4,247,690.71	65.00	65,348.98	30.01	1,960,866.76
1987	6,013,281.27	65.00	92,511.87	30.73	2,843,046.58
1988	6,674,607.49	65.00	102,686.10	31.47	3,231,430.42
1989	7,139,535.11	65.00	109,838.82	32.21	3,538,241.49
1990	8,043,595.14	65.00	123,747.41	32.96	4,079,129.75
1991	5,928,121.26	65.00	91,201.71	33.72	3,075,579.56
1992	6,234,606.54	65.00	95,916.86	34.49	3,307,982.23
1993	9,288,141.50	65.00	142,894.25	35.26	5,038,792.67
1994	7,497,988.07	65.00	115,353.47	36.04	4,157,564.54
1995	10,660,132.92	65.00	164,001.77	36.83	6,040,304.37
1996	10,946,139.90	65.00	168,401.87	37.62	6,335,981.85
1997	10,384,249.14	65.00	159,757.41	38.43	6,138,973.65
1998	45,120,542.59	65.00	694,161.04	39.23	27,234,528.19
1999	13,636,557.89	65.00	209,792.85	40.05	8,402,162.81
2000	13,676,513.88	65.00	210,407.56	40.87	8,599,280.80
2001	16,055,367.87	65.00	247,005.25	41.70	10,299,780.37
2002	29,420,045.53	65.00	452,615.33	42.53	19,251,058.64

PAWC - Water Operations
Water Operations
333.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2003	3,332,913.70	65.00	51,275.51	43.37	2,223,935.72
2004	2,301,972.14	65.00	35,414.90	44.22	1,566,002.48
2005	18,642,380.85	65.00	286,805.38	45.07	12,926,255.68
2006	97,093.23	65.00	1,493.74	45.93	68,604.29
2007	11,757,112.87	65.00	180,878.36	46.79	8,463,310.79
2008	24,614,968.60	65.00	378,691.20	47.66	18,048,130.08
2009	22,036,985.52	65.00	339,029.98	48.53	16,453,822.61
2010	17,638,502.22	65.00	271,361.12	49.41	13,408,415.84
2011	18,381,854.43	65.00	282,797.29	50.29	14,223,179.90
2012	21,415,824.87	65.00	329,473.68	51.18	16,863,834.62
2013	22,208,505.51	65.00	341,668.75	52.08	17,792,944.42
2014	20,397,030.58	65.00	313,799.95	52.98	16,623,695.78
2015	21,290,834.06	65.00	327,550.75	53.88	17,647,828.01
2016	27,661,526.29	65.00	425,561.24	54.78	23,314,123.66
2017	25,379,567.08	65.00	390,454.23	55.70	21,746,572.16
2018	23,715,731.19	65.00	364,856.80	56.61	20,654,506.39
2019	26,179,867.32	65.00	402,766.52	57.53	23,170,733.54
2020	33,312,868.41	65.00	512,504.82	58.45	29,956,310.80
2021	30,203,778.54	65.00	464,672.75	59.38	27,590,941.88
2022	40,698,247.83	65.00	626,125.85	60.31	37,759,124.29
2023	50,527,321.73	65.00	777,342.12	61.24	47,603,736.89
2024	59,334,324.69	65.00	912,834.25	62.17	56,754,891.29
2025	61,511,074.46	65.00	946,322.65	63.11	59,725,977.52
2026	69,050,398.05	65.00	1,062,312.06	64.05	68,046,379.80
2027	29,437,556.59	65.00	452,884.74	64.76	29,330,571.15

PAWC - Water Operations
Water Operations
333.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *65* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	932,401,006.55	65.00	14,344,607.09	51.57	739,791,313.94

Composite Average Remaining Life ... *51.57 Years*

PAWC - Water Operations
Water Operations
334.00 Meters and Installations

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *L1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1964	432.34	0.00	0.00	0.00	0.00
1965	690.21	20.00	34.51	0.50	17.25
1966	379.60	20.00	18.98	0.68	12.94
1967	211.29	20.00	10.56	0.82	8.63
1968	644.58	20.00	32.23	0.96	30.99
1969	484.76	20.00	24.24	1.11	26.97
1970	1,005.44	20.00	50.27	1.27	63.67
1971	393.61	20.00	19.68	1.42	28.01
1972	742.49	20.00	37.12	1.58	58.63
1973	469.40	20.00	23.47	1.73	40.69
1974	161.81	20.00	8.09	1.88	15.24
1975	867.81	20.00	43.39	2.03	88.08
1976	209.21	20.00	10.46	2.17	22.74
1977	228.08	20.00	11.40	2.32	26.42
1978	368.71	20.00	18.43	2.46	45.36
1979	424.75	20.00	21.24	2.61	55.35
1980	237.30	20.00	11.86	2.76	32.69
1981	289.53	20.00	14.48	2.91	42.11
1986	1,711.36	20.00	85.56	3.74	320.30
1987	178,858.25	20.00	8,942.57	3.92	35,098.87
1988	380.71	20.00	19.03	4.11	78.26
1989	8,855.11	20.00	442.74	4.30	1,905.22
1990	32,652.21	20.00	1,632.55	4.50	7,346.74
1991	616,424.84	20.00	30,820.05	4.70	144,927.39
1992	194,193.42	20.00	9,709.29	4.91	47,672.63
1993	212,678.26	20.00	10,633.50	5.12	54,477.12
1994	179,950.72	20.00	8,997.19	5.34	48,062.70

PAWC - Water Operations
Water Operations
334.00 Meters and Installations

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 20 **Survivor Curve:** L1.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1995	234,273.94	20.00	11,713.24	5.57	65,201.69
1996	62,330.63	20.00	3,116.41	5.80	18,064.97
1997	991,842.07	20.00	49,590.18	6.03	299,154.75
1998	9,213,281.69	20.00	460,646.21	6.27	2,889,945.35
1999	1,281,258.03	20.00	64,060.42	6.52	417,656.38
2000	1,073,049.21	20.00	53,650.38	6.77	363,219.57
2001	2,818,791.16	20.00	140,934.09	7.02	989,946.37
2002	1,386,633.90	20.00	69,329.01	7.28	504,794.79
2003	63,105.89	20.00	3,155.17	7.54	23,791.02
2004	32,223.34	20.00	1,611.10	7.80	12,568.47
2005	2,154,246.84	20.00	107,708.16	8.06	868,493.43
2006	47,653.69	20.00	2,382.59	8.33	19,840.53
2007	2,897,977.92	20.00	144,893.28	8.59	1,245,169.69
2008	1,370,799.29	20.00	68,537.31	8.86	607,533.84
2009	3,533,616.30	20.00	176,673.96	9.14	1,615,070.38
2010	7,039,303.26	20.00	351,951.51	9.43	3,318,506.95
2011	12,087,330.67	20.00	604,343.09	9.73	5,880,622.41
2012	10,645,727.71	20.00	532,265.74	10.05	5,350,224.26
2013	8,536,390.17	20.00	426,802.95	10.40	4,437,936.10
2014	6,150,495.34	20.00	307,512.84	10.78	3,313,588.78
2015	11,714,189.11	20.00	585,686.74	11.19	6,553,624.99
2016	14,068,588.07	20.00	703,402.12	11.65	8,192,318.81
2017	14,901,224.89	20.00	745,032.34	12.15	9,055,849.13
2018	12,242,827.72	20.00	612,117.64	12.72	7,786,417.57
2019	16,449,936.52	20.00	822,464.92	13.34	10,975,530.58
2020	9,510,416.90	20.00	475,502.40	14.02	6,668,432.91
2021	6,479,786.38	20.00	323,976.75	14.75	4,778,999.46

PAWC - Water Operations
Water Operations
334.00 Meters and Installations

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *L1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	20,099,160.94	20.00	1,004,919.06	15.52	15,598,707.32
2023	35,623,116.67	20.00	1,781,086.74	16.34	29,100,581.57
2024	39,363,866.28	20.00	1,968,116.97	17.20	33,850,053.53
2025	31,430,507.30	20.00	1,571,464.40	18.10	28,444,770.39
2026	34,926,198.21	20.00	1,746,242.17	19.04	33,244,249.68
2027	18,416,768.49	20.00	920,802.70	19.76	18,193,388.26
Total	338,280,864.33	19.67	16,913,365.49	14.49	245,024,758.94

Composite Average Remaining Life ... 14.49 Years

PAWC - Water Operations
Water Operations
335.00 Fire Hydrants

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 60 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1936	588.40	60.00	9.81	5.62	55.16
1937	1,621.51	60.00	27.03	5.91	159.73
1938	1,929.31	60.00	32.16	6.20	199.35
1939	3,562.65	60.00	59.38	6.50	385.75
1940	2,310.84	60.00	38.51	6.79	261.33
1941	2,706.59	60.00	45.11	7.08	319.28
1942	983.11	60.00	16.39	7.38	120.88
1943	1,073.20	60.00	17.89	7.67	137.23
1944	1,074.91	60.00	17.92	7.97	142.80
1945	475.94	60.00	7.93	8.28	65.66
1946	1,665.69	60.00	27.76	8.58	238.24
1947	7,077.54	60.00	117.96	8.89	1,048.82
1948	5,623.01	60.00	93.72	9.21	863.07
1949	16,588.46	60.00	276.47	9.53	2,634.20
1950	3,735.45	60.00	62.26	9.85	613.43
1951	21,271.04	60.00	354.52	10.19	3,611.46
1952	17,875.29	60.00	297.92	10.52	3,135.37
1953	13,592.28	60.00	226.54	10.87	2,462.28
1954	21,052.56	60.00	350.88	11.22	3,937.90
1955	17,841.89	60.00	297.36	11.58	3,444.28
1956	29,621.78	60.00	493.69	11.95	5,900.11
1957	42,590.10	60.00	709.83	12.33	8,750.94
1958	51,525.95	60.00	858.76	12.71	10,917.60
1959	66,485.57	60.00	1,108.09	13.11	14,524.08
1960	67,459.21	60.00	1,124.32	13.51	15,190.07
1961	65,264.47	60.00	1,087.74	13.92	15,144.59
1962	48,976.80	60.00	816.28	14.35	11,709.52

PAWC - Water Operations
Water Operations
335.00 Fire Hydrants

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 60 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1963	73,731.35	60.00	1,228.85	14.78	18,157.46
1964	61,772.46	60.00	1,029.54	15.22	15,666.91
1965	92,329.65	60.00	1,538.82	15.67	24,111.12
1966	94,944.24	60.00	1,582.40	16.13	25,521.57
1967	119,431.65	60.00	1,990.52	16.60	33,041.89
1968	117,836.73	60.00	1,963.94	17.08	33,545.08
1969	115,475.29	60.00	1,924.58	17.57	33,814.69
1970	112,035.50	60.00	1,867.25	18.07	33,743.32
1971	148,642.08	60.00	2,477.36	18.58	46,034.08
1972	157,492.24	60.00	2,624.86	19.10	50,137.23
1973	210,824.12	60.00	3,513.73	19.63	68,981.33
1974	286,596.59	60.00	4,776.60	20.17	96,355.43
1975	285,002.37	60.00	4,750.03	20.72	98,423.97
1976	190,952.07	60.00	3,182.53	21.28	67,727.68
1977	279,759.24	60.00	4,662.64	21.85	101,881.52
1978	430,990.30	60.00	7,183.15	22.43	161,101.08
1979	500,711.51	60.00	8,345.17	23.02	192,077.07
1980	432,792.80	60.00	7,213.19	23.61	170,334.24
1981	261,009.25	60.00	4,350.14	24.22	105,356.74
1982	406,053.34	60.00	6,767.54	24.84	168,076.20
1983	534,225.72	60.00	8,903.74	25.46	226,694.17
1984	531,571.07	60.00	8,859.49	26.09	231,164.59
1985	567,328.80	60.00	9,455.45	26.74	252,794.20
1986	734,721.97	60.00	12,245.33	27.39	335,354.27
1987	804,852.40	60.00	13,414.17	28.04	376,184.27
1988	858,300.28	60.00	14,304.97	28.71	410,725.58
1989	1,071,806.20	60.00	17,863.39	29.39	524,970.46

PAWC - Water Operations
Water Operations
335.00 Fire Hydrants

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *60* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1990	1,134,052.77	60.00	18,900.83	30.07	568,351.74
1991	951,267.70	60.00	15,854.42	30.76	487,724.26
1992	1,306,645.69	60.00	21,777.37	31.46	685,169.16
1993	1,152,244.85	60.00	19,204.03	32.17	617,756.79
1994	1,523,647.70	60.00	25,394.06	32.88	835,047.65
1995	1,664,375.32	60.00	27,739.51	33.61	932,215.07
1996	1,577,246.03	60.00	26,287.36	34.33	902,552.17
1997	1,706,694.28	60.00	28,444.83	35.07	997,603.42
1998	1,583,268.10	60.00	26,387.73	35.82	945,092.15
1999	2,036,884.89	60.00	33,947.99	36.56	1,241,307.64
2000	1,229,485.62	60.00	20,491.37	37.32	764,806.36
2001	1,686,281.69	60.00	28,104.62	38.09	1,070,448.71
2002	1,575,205.61	60.00	26,253.36	38.86	1,020,146.35
2003	2,108,086.60	60.00	35,134.68	39.64	1,392,599.17
2004	2,170,114.86	60.00	36,168.48	40.42	1,461,941.49
2005	212,011.76	60.00	3,533.52	41.21	145,614.47
2006	5,605,536.83	60.00	93,425.36	42.01	3,924,493.90
2007	3,150,891.37	60.00	52,514.71	42.81	2,248,140.27
2008	4,214,667.80	60.00	70,244.27	43.62	3,063,870.00
2009	4,587,488.19	60.00	76,457.93	44.43	3,397,231.94
2010	4,190,646.79	60.00	69,843.92	45.25	3,160,681.71
2011	3,495,645.59	60.00	58,260.60	46.08	2,684,574.70
2012	4,588,389.00	60.00	76,472.94	46.91	3,587,442.16
2013	5,180,806.47	60.00	86,346.54	47.75	4,122,959.72
2014	4,601,946.96	60.00	76,698.91	48.59	3,726,871.60
2015	7,650,951.86	60.00	127,515.52	49.44	6,304,339.48
2016	7,674,820.02	60.00	127,913.32	50.29	6,433,215.27

PAWC - Water Operations
Water Operations
335.00 Fire Hydrants

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *60* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2017	5,996,932.02	60.00	99,948.59	51.15	5,112,504.45
2018	5,445,706.29	60.00	90,761.52	52.02	4,721,016.86
2019	7,171,981.08	60.00	119,532.69	52.88	6,321,432.56
2020	7,520,451.80	60.00	125,340.52	53.76	6,737,966.13
2021	7,678,660.09	60.00	127,977.32	54.64	6,992,182.04
2022	10,966,962.91	60.00	182,782.22	55.52	10,147,940.00
2023	13,852,812.43	60.00	230,879.58	56.41	13,023,012.29
2024	13,735,397.26	60.00	228,922.66	57.30	13,116,933.39
2025	9,713,121.98	60.00	161,884.92	58.20	9,420,907.03
2026	7,071,586.42	60.00	117,859.45	59.09	6,964,904.01
2027	2,929,627.00	60.00	48,826.98	59.77	2,918,576.03
Total	180,638,306.40	60.00	3,010,630.22	48.56	146,207,521.44

Composite Average Remaining Life ... 48.56 Years

PAWC - Water Operations
Water Operations
341.00 Transportation - Not Classified

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *10* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1986	349.00	0.00	0.00	0.00	0.00
2020	2,238.67	10.00	223.86	4.74	1,061.80
2025	36,010.43	10.00	3,601.00	8.07	29,055.54
Total	38,598.10	6.67	3,824.86	7.87	30,117.34

Composite Average Remaining Life ... 7.87 Years

PAWC - Water Operations
Water Operations
341.10 Transportation - Light Trucks
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *10* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2011	13,026.96	10.00	1,302.68	2.44	3,182.11
2012	1,047,063.51	10.00	104,705.08	2.68	280,635.77
2013	4,227,768.76	10.00	422,771.76	2.93	1,237,070.16
2014	32,917.81	10.00	3,291.74	3.18	10,455.40
2015	725,387.34	10.00	72,537.86	3.43	248,463.21
2016	1,220,134.83	10.00	122,012.01	3.67	447,647.78
2017	26,157.18	10.00	2,615.69	3.91	10,221.40
2018	2,047,017.14	10.00	204,699.24	4.15	849,777.95
2019	9,553,497.26	10.00	955,338.17	4.42	4,222,441.12
2020	8,453,258.56	10.00	845,315.63	4.74	4,009,377.86
2021	10,790,668.96	10.00	1,079,053.84	5.16	5,565,161.43
2022	9,807,263.14	10.00	980,714.45	5.70	5,589,248.87
2023	16,574,063.92	10.00	1,657,386.34	6.39	10,585,528.60
2024	10,308,127.68	10.00	1,030,800.30	7.19	7,413,824.84
2025	6,190,218.36	10.00	619,014.35	8.07	4,994,667.34
2026	5,234,232.92	10.00	523,416.96	9.01	4,716,216.88
2027	1,531,202.90	10.00	153,118.44	9.75	1,492,939.02
Total	87,782,007.23	10.00	8,778,094.54	5.89	51,676,859.75

Composite Average Remaining Life ... 5.89 Years

PAWC - Water Operations
Water Operations
341.20 Transportation - Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *10* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2000	58,209.00	10.00	5,820.83	0.51	2,951.99
2011	4,000.00	10.00	400.00	2.44	977.08
2012	90,370.79	10.00	9,036.97	2.68	24,221.34
2013	2,819,782.74	10.00	281,974.86	2.93	825,085.12
2014	411,274.47	10.00	41,126.95	3.18	130,629.56
2016	2,478,954.18	10.00	247,892.42	3.67	909,488.28
2017	2,326,634.81	10.00	232,660.67	3.91	909,175.65
2018	5,865,427.39	10.00	586,535.64	4.15	2,434,914.08
2019	8,314.30	10.00	831.42	4.42	3,674.74
2020	811,487.16	10.00	81,147.73	4.74	384,888.10
2021	229,580.55	10.00	22,957.78	5.16	118,403.49
2022	172,600.00	10.00	17,259.79	5.70	98,366.32
Total	15,276,635.39	10.00	1,527,645.06	3.82	5,842,775.75

Composite Average Remaining Life ... 3.82 Years

PAWC - Water Operations
Water Operations
341.40 Transportation - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *10* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1961	374.92	0.00	0.00	0.00	0.00
1977	403.11	0.00	0.00	0.00	0.00
1978	265.00	0.00	0.00	0.00	0.00
1997	5,832.00	0.00	0.00	0.00	0.00
1998	8,060.31	0.00	0.00	0.00	0.00
1999	3,236.47	0.00	0.00	0.00	0.00
2006	4,626.70	10.00	462.66	1.40	648.65
2007	18,169.65	10.00	1,816.94	1.59	2,893.25
2008	97,342.34	10.00	9,734.12	1.79	17,433.61
2009	25,526.94	10.00	2,552.66	2.00	5,101.22
2010	50,483.13	10.00	5,048.25	2.22	11,183.95
2011	75,022.83	10.00	7,502.19	2.44	18,325.90
2012	320,046.56	10.00	32,004.27	2.68	85,779.43
2013	836,648.69	10.00	83,663.86	2.93	244,808.36
2014	718,980.22	10.00	71,897.15	3.18	228,363.48
2015	178,997.07	10.00	17,899.49	3.43	61,310.95
2016	954,565.45	10.00	95,455.39	3.67	350,214.66
2017	120,461.68	10.00	12,046.02	3.91	47,072.63
2018	2,510,965.54	10.00	251,093.52	4.15	1,042,376.79
2019	787,130.82	10.00	78,712.13	4.42	347,894.96
2020	473,035.57	10.00	47,302.98	4.74	224,360.62
2021	107,145.87	10.00	10,714.46	5.16	55,259.23
2022	47,744.96	10.00	4,774.44	5.70	27,210.29
2023	129,695.53	10.00	12,969.40	6.39	82,833.98
2024	211,053.00	10.00	21,105.04	7.19	151,793.81

PAWC - Water Operations
Water Operations
341.40 Transportation - Other

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *10* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	7,685,814.36	7.60	766,754.98	3.92	3,004,865.77

Composite Average Remaining Life ... *3.92* *Years*

PAWC - Water Operations
Water Operations
345.00 Power Operated Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 21 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1951	29.64	0.00	0.00	0.00	0.00
1967	1,931.23	0.00	0.00	0.00	0.00
1968	1,032.10	0.00	0.00	0.00	0.00
1969	817.92	0.00	0.00	0.00	0.00
1970	6,734.16	0.00	0.00	0.00	0.00
1972	6,321.41	0.00	0.00	0.00	0.00
1975	281.75	0.00	0.00	0.00	0.00
1977	596.25	0.00	0.00	0.00	0.00
1978	1,790.00	0.00	0.00	0.00	0.00
1980	7,445.82	0.00	0.00	0.00	0.00
1982	2,452.73	0.00	0.00	0.00	0.00
1984	1,722.07	0.00	0.00	0.00	0.00
1985	16,792.81	0.00	0.00	0.00	0.00
1986	14,013.50	21.00	667.30	0.50	333.65
1987	4,748.59	21.00	226.12	0.78	177.31
1988	10,221.10	21.00	486.71	1.11	538.34
1989	13,115.87	21.00	624.56	1.43	893.42
1990	9,498.15	21.00	452.29	1.76	795.43
1991	12,096.57	21.00	576.02	2.09	1,203.03
1992	18,034.45	21.00	858.78	2.42	2,079.02
1993	77,817.09	21.00	3,705.54	2.75	10,201.16
1994	142,750.50	21.00	6,797.58	3.09	20,991.50
1995	148,235.10	21.00	7,058.75	3.43	24,188.39
1996	79,553.28	21.00	3,788.22	3.77	14,281.97
1997	41,095.55	21.00	1,956.91	4.12	8,055.94
1998	97,830.04	21.00	4,658.53	4.47	20,817.39
1999	255,047.45	21.00	12,145.01	4.83	58,619.48

PAWC - Water Operations
Water Operations
345.00 Power Operated Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 21 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2001	45,944.17	21.00	2,187.80	5.56	12,170.42
2002	104,174.99	21.00	4,960.67	5.94	29,476.70
2003	170,236.10	21.00	8,106.41	6.33	51,312.53
2004	19,131.90	21.00	911.03	6.73	6,128.59
2005	33,181.89	21.00	1,580.08	7.13	11,272.20
2006	13,570.69	21.00	646.22	7.55	4,880.06
2007	10,129.80	21.00	482.37	7.98	3,849.86
2008	70,816.03	21.00	3,372.16	8.42	28,404.44
2009	85,341.82	21.00	4,063.86	8.88	36,081.62
2010	16,615.93	21.00	791.23	9.35	7,397.10
2011	34,410.00	21.00	1,638.56	9.83	16,114.92
2012	21,347.57	21.00	1,016.54	10.34	10,508.66
2013	21,465.79	21.00	1,022.17	10.86	11,099.08
2014	100,707.30	21.00	4,795.54	11.40	54,664.74
2015	52,293.85	21.00	2,490.16	11.96	29,784.34
2016	126,868.88	21.00	6,041.32	12.55	75,788.91
2017	26,612.95	21.00	1,267.27	13.15	16,668.45
2018	292,687.82	21.00	13,937.39	13.79	192,165.28
2019	13,003.54	21.00	619.21	14.45	8,947.75
2022	53,275.45	21.00	2,536.90	16.62	42,171.99
2024	2,433.40	21.00	115.88	18.25	2,114.57
2025	805,604.26	21.00	38,361.76	19.12	733,454.73
Total	3,091,859.26	15.43	144,946.83	10.68	1,547,632.99

Composite Average Remaining Life ... 10.68 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.20 Structures - Collection
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 45 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2007	5,558.35	45.00	123.52	26.32	3,250.41
2008	108,379.42	45.00	2,408.43	27.18	65,452.28
2009	132,540.66	45.00	2,945.35	28.05	82,609.27
2011	8,406.90	45.00	186.82	29.82	5,570.56
2013	99,290.12	45.00	2,206.45	31.63	69,780.23
2014	14,502.89	45.00	322.29	32.54	10,487.62
2015	30,107.50	45.00	669.06	33.46	22,389.76
2016	36,078.70	45.00	801.75	34.40	27,577.28
2017	194,749.06	45.00	4,327.75	35.33	152,918.27
2018	173,543.28	45.00	3,856.52	36.28	139,909.12
2019	262,981.43	45.00	5,844.03	37.23	217,567.07
2020	428,816.35	45.00	9,529.25	38.18	363,872.88
2021	566,401.30	45.00	12,586.69	39.15	492,727.17
2022	3,366,037.21	45.00	74,800.79	40.11	3,000,457.67
2023	2,415,861.63	45.00	53,685.79	41.08	2,205,568.36
2024	3,333,894.56	45.00	74,086.51	42.06	3,115,862.73
2025	901,842.84	45.00	20,040.94	43.04	862,466.34
2026	1,590,682.41	45.00	35,348.48	44.02	1,555,906.25
2027	140,378.81	45.00	3,119.53	44.75	139,610.12
Total	13,810,053.42	45.00	306,889.93	40.84	12,533,983.39

Composite Average Remaining Life ... 40.84 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.30 Structures - SPP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1935	18,861.14	55.00	342.93	6.71	2,299.72
1958	63,683.83	55.00	1,157.89	15.84	18,342.31
1976	25,970.39	55.00	472.19	23.68	11,181.10
1978	11,146.44	55.00	202.66	24.60	4,985.97
1980	93,957.85	55.00	1,708.32	25.54	43,627.08
1982	12,204.98	55.00	221.91	26.49	5,877.63
1983	86,589.73	55.00	1,574.36	26.97	42,454.93
1984	22,251.97	55.00	404.58	27.45	11,105.73
1985	104,674.02	55.00	1,903.16	27.94	53,168.88
1986	109,744.95	55.00	1,995.36	28.43	56,723.44
1987	29,681.60	55.00	539.67	28.92	15,608.65
1988	220,522.99	55.00	4,009.51	29.42	117,968.26
1989	240,185.48	55.00	4,367.01	29.93	130,685.66
1990	195,083.34	55.00	3,546.97	30.43	107,947.02
1991	285,470.50	55.00	5,190.37	30.95	160,621.44
1992	76,045.29	55.00	1,382.64	31.46	43,501.44
1993	2,160,497.80	55.00	39,281.75	31.98	1,256,419.52
1994	40,624.78	55.00	738.63	32.51	24,014.45
1996	24,175.73	55.00	439.56	33.58	14,761.39
1997	207,995.69	55.00	3,781.74	34.12	129,050.86
1998	429,870.49	55.00	7,815.82	34.67	271,008.10
1999	351,573.23	55.00	6,392.24	35.23	225,197.52
2000	289,845.37	55.00	5,269.91	35.79	188,618.90
2001	179,000.00	55.00	3,254.54	36.36	118,335.08
2002	66,094.94	55.00	1,201.73	36.94	44,385.75
2003	271,071.10	55.00	4,928.56	37.52	184,900.50
2004	1,082,516.67	55.00	19,682.11	38.11	750,007.12

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.30 Structures - SPP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2005	428,604.11	55.00	7,792.80	38.70	301,609.46
2006	917,095.09	55.00	16,674.44	39.31	655,459.36
2007	516,608.48	55.00	9,392.87	39.92	374,993.44
2008	2,147,228.90	55.00	39,040.50	40.54	1,582,870.81
2009	2,915,918.08	55.00	53,016.66	41.18	2,183,057.58
2010	2,365,815.22	55.00	43,014.79	41.82	1,798,834.53
2011	298,754.41	55.00	5,431.89	42.47	230,699.45
2012	37,883.52	55.00	688.79	43.13	29,710.45
2013	181,693.78	55.00	3,303.52	43.81	144,721.96
2014	4,039,714.09	55.00	73,449.30	44.49	3,267,962.08
2015	1,545,002.12	55.00	28,090.93	45.19	1,269,489.12
2016	553,292.14	55.00	10,059.85	45.90	461,796.00
2017	463,399.48	55.00	8,425.44	46.63	392,893.09
2018	388,079.03	55.00	7,055.98	47.37	334,268.33
2019	1,004,042.79	55.00	18,255.31	48.13	878,614.30
2020	1,665,213.82	55.00	30,276.59	48.91	1,480,700.77
2021	987,136.34	55.00	17,947.92	49.70	892,032.64
2022	790,909.88	55.00	14,380.17	50.52	726,443.16
2023	435,502.41	55.00	7,918.22	51.36	406,642.36
2024	821,724.47	55.00	14,940.43	52.22	780,165.39
2025	2,477,582.27	55.00	45,046.92	53.11	2,392,258.98
Total	31,680,540.73	55.00	576,009.43	42.74	24,618,021.71

Composite Average Remaining Life ... 42.74 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1916	177,755.17	0.00	0.00	0.00	0.00
1932	602.40	55.00	10.95	5.57	61.00
1935	562,419.57	55.00	10,225.80	6.71	68,575.13
1946	484.94	55.00	8.82	10.98	96.79
1954	3,946,317.60	55.00	71,751.18	14.19	1,018,405.60
1957	135,742.23	55.00	2,468.04	15.43	38,073.09
1961	346,385.67	55.00	6,297.92	17.10	107,676.17
1963	1,566,657.10	55.00	28,484.65	17.94	511,135.99
1965	53,759.86	55.00	977.45	18.80	18,376.27
1967	23,995,715.53	55.00	436,285.43	19.66	8,579,431.77
1968	361,924.73	55.00	6,580.45	20.10	132,270.46
1969	221,599.62	55.00	4,029.08	20.54	82,752.37
1973	38,481.00	55.00	699.65	22.32	15,614.24
1975	419,410.21	55.00	7,625.63	23.22	177,085.00
1976	16,150.91	55.00	293.65	23.68	6,953.49
1978	20,306,005.32	55.00	369,199.84	24.60	9,083,178.10
1981	12,778,313.67	55.00	232,332.81	26.01	6,043,078.03
1984	693,417.71	55.00	12,607.59	27.45	346,077.60
1985	133,860.33	55.00	2,433.82	27.94	67,993.99
1986	385,741.04	55.00	7,013.47	28.43	199,376.45
1988	15,031,971.53	55.00	273,308.38	29.42	8,041,318.39
1989	7,342,590.93	55.00	133,501.56	29.93	3,995,126.34
1990	6,479,049.63	55.00	117,800.82	30.43	3,585,104.31
1991	34,903,905.07	55.00	634,616.02	30.95	19,638,861.59
1992	52,055,984.18	55.00	946,471.78	31.46	29,778,444.87
1993	354,817.39	55.00	6,451.22	31.98	206,341.10
1994	16,680.06	55.00	303.27	32.51	9,860.05

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 *Survivor Curve:* S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1995	124,581.42	55.00	2,265.12	33.04	74,849.60
1996	642,593.75	55.00	11,683.51	33.58	392,359.50
1997	274,432.07	55.00	4,989.67	34.12	170,271.29
1998	599,628.40	55.00	10,902.33	34.67	378,030.49
1999	230,360.60	55.00	4,188.37	35.23	147,555.71
2000	6,456,390.86	55.00	117,388.84	35.79	4,201,541.52
2001	2,266,355.22	55.00	41,206.43	36.36	1,498,264.35
2002	1,387,706.79	55.00	25,231.02	36.94	931,908.11
2003	1,983,806.66	55.00	36,069.19	37.52	1,353,175.78
2004	204,864.73	55.00	3,724.81	38.11	141,937.77
2005	814,250.99	55.00	14,804.55	38.70	572,989.84
2006	1,009,776.60	55.00	18,359.56	39.31	721,700.00
2007	46,539.86	55.00	846.18	39.92	33,782.14
2008	2,849,140.44	55.00	51,802.52	40.54	2,100,298.31
2009	17,686,455.46	55.00	321,571.69	41.18	13,241,301.55
2010	20,483,746.66	55.00	372,431.50	41.82	15,574,703.63
2011	16,053,015.59	55.00	291,872.81	42.47	12,396,208.01
2012	3,496,681.74	55.00	63,575.99	43.13	2,742,300.05
2013	231,088.74	55.00	4,201.61	43.81	184,065.82
2014	10,269,815.58	55.00	186,723.79	44.49	8,307,857.22
2015	149,213.17	55.00	2,712.96	45.19	122,604.68
2016	446,427.21	55.00	8,116.85	45.90	372,602.98
2017	990,597.57	55.00	18,010.85	46.63	839,877.81
2018	421,177.10	55.00	7,657.76	47.37	362,777.05
2019	208,842.04	55.00	3,797.13	48.13	182,752.77
2020	2,243,371.63	55.00	40,788.55	48.91	1,994,796.14
2021	2,311,174.12	55.00	42,021.32	49.70	2,088,508.61

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	7,852,783.99	55.00	142,777.79	50.52	7,212,707.02
2023	12,748,818.46	55.00	231,796.54	51.36	11,903,974.49
2025	1,588,339.04	55.00	28,878.87	53.11	1,533,639.62
Total	298,397,719.89	54.04	5,422,177.41	33.85	183,530,610.06

Composite Average Remaining Life ... 33.85 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.70 Structures - General

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S1

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1939	2,887.33	0.00	0.00	0.00	0.00
1972	429.33	35.00	12.27	4.21	51.69
1984	10,874.51	35.00	310.70	8.15	2,532.75
1993	16,482.80	35.00	470.94	11.66	5,491.87
1994	28,449.25	35.00	812.84	12.09	9,828.64
1997	5,713.09	35.00	163.23	13.44	2,193.95
2003	3,684.19	35.00	105.26	16.45	1,731.38
2007	1,119.34	35.00	31.98	18.74	599.18
2008	348,640.08	35.00	9,961.14	19.35	192,733.03
2009	43,820.29	35.00	1,252.01	19.98	25,014.61
2010	5,345.53	35.00	152.73	20.63	3,150.53
2011	7,001.10	35.00	200.03	21.30	4,260.28
2012	28,068.61	35.00	801.96	21.99	17,633.67
2013	24,924.10	35.00	712.12	22.70	16,164.65
2014	408,488.87	35.00	11,671.11	23.43	273,481.72
2015	1,009,745.79	35.00	28,849.87	24.19	697,812.20
2016	9,076.51	35.00	259.33	24.97	6,474.40
2017	130,192.63	35.00	3,719.79	25.77	95,845.08
2018	367,130.67	35.00	10,489.45	26.59	278,938.73
2019	83,750.56	35.00	2,392.87	27.44	65,665.83
2020	173,552.29	35.00	4,958.64	28.32	140,408.65
2021	640,981.11	35.00	18,313.74	29.21	535,000.86
2022	1,080,190.69	35.00	30,862.58	30.13	929,975.10
2023	769,035.77	35.00	21,972.45	31.07	682,766.60
2024	2,013,993.87	35.00	57,542.67	32.03	1,843,277.88
2025	694,344.07	35.00	19,838.40	33.01	654,883.71
2026	272,010.26	35.00	7,771.72	34.00	264,250.64

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
354.70 Structures - General

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2027	86,369.08	35.00	2,467.69	34.75	85,752.00
Total	8,266,301.72	33.75	236,097.51	28.95	6,835,919.64

Composite Average Remaining Life ... 28.95 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
355.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1980	3,900.49	35.00	111.44	7.91	881.74
1983	14,573.73	35.00	416.39	9.01	3,752.51
1987	19,246.40	35.00	549.90	10.54	5,796.56
1989	49,338.78	35.00	1,409.68	11.34	15,983.19
1990	7,692.28	35.00	219.78	11.75	2,581.40
1992	59,866.38	35.00	1,710.46	12.58	21,516.60
1993	260,597.74	35.00	7,445.63	13.01	96,843.27
1994	12,067.19	35.00	344.78	13.44	4,634.26
1997	30,447.00	35.00	869.91	14.79	12,868.06
1998	74,281.11	35.00	2,122.31	15.26	32,386.09
1999	54,144.46	35.00	1,546.98	15.74	24,343.92
2000	97,004.84	35.00	2,771.56	16.22	44,961.78
2001	38,477.83	35.00	1,099.36	16.72	18,379.91
2002	56,915.93	35.00	1,626.17	17.23	28,011.06
2005	68,295.28	35.00	1,951.29	18.81	36,707.50
2007	12,208.69	35.00	348.82	19.93	6,952.49
2008	1,263,581.59	35.00	36,102.23	20.51	740,503.85
2009	2,513,725.97	35.00	71,820.55	21.11	1,515,786.56
2010	20,681.36	35.00	590.89	21.71	12,829.97
2011	62,203.16	35.00	1,777.23	22.34	39,698.07
2012	81,422.26	35.00	2,326.34	22.98	53,453.17
2013	26,762.41	35.00	764.64	23.63	18,071.65
2014	609,411.88	35.00	17,411.72	24.31	423,252.81
2015	84,106.93	35.00	2,403.05	25.00	60,078.10
2016	10,498.31	35.00	299.95	25.71	7,712.28
2017	13,046.73	35.00	372.76	26.44	9,856.22
2018	4,307.88	35.00	123.08	27.19	3,346.86

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
355.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2019	9,195.02	35.00	262.71	27.96	7,346.59
2020	160,993.90	35.00	4,599.81	28.76	132,281.32
2021	241,827.33	35.00	6,909.33	29.57	204,338.06
2022	226,859.70	35.00	6,481.69	30.41	197,132.02
2023	90,971.14	35.00	2,599.17	31.28	81,294.84
2024	88,903.89	35.00	2,540.10	32.16	81,700.88
2025	764,953.95	35.00	21,855.77	33.08	722,983.88
2026	150,000.00	35.00	4,285.70	34.02	145,813.87
Total	7,282,511.54	35.00	208,071.19	23.14	4,814,081.35

Composite Average Remaining Life ... 23.14 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
360.10 Collection Sewers - Force Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 75 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1972	48,509.48	75.00	646.79	26.93	17,416.52
1973	81,585.98	75.00	1,087.81	27.63	30,053.68
1974	1,029,636.96	75.00	13,728.49	28.34	389,008.26
1975	608,832.68	75.00	8,117.77	29.06	235,876.16
1976	720,712.47	75.00	9,609.50	29.78	286,198.72
1977	350,159.05	75.00	4,668.79	30.52	142,475.36
1978	211,203.87	75.00	2,816.05	31.26	88,035.82
1979	58,745.44	75.00	783.27	32.01	25,074.57
1980	124,546.85	75.00	1,660.62	32.77	54,418.83
1981	132,795.94	75.00	1,770.61	33.54	59,384.25
1982	41,902.81	75.00	558.70	34.31	19,170.34
1983	163,569.93	75.00	2,180.93	35.09	76,533.69
1985	270,805.38	75.00	3,610.74	36.68	132,434.35
1986	56,828.81	75.00	757.72	37.48	28,398.80
1987	202,246.19	75.00	2,696.62	38.29	103,256.05
1988	442,666.46	75.00	5,902.22	39.11	230,817.00
1989	84,208.14	75.00	1,122.78	39.93	44,831.08
1990	86,819.04	75.00	1,157.59	40.76	47,183.71
1991	70,230.83	75.00	936.41	41.60	38,951.07
1992	32,532.38	75.00	433.77	42.44	18,408.01
1993	544,567.48	75.00	7,260.90	43.29	314,313.21
1994	270,934.00	75.00	3,612.45	44.14	159,465.22
1995	892,189.42	75.00	11,895.86	45.00	535,355.79
1996	127,110.51	75.00	1,694.81	45.87	77,745.00
1997	1,619,488.61	75.00	21,593.18	46.75	1,009,379.14
1998	636,549.21	75.00	8,487.32	47.62	404,195.10
1999	446,224.41	75.00	5,949.66	48.51	288,615.26

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
360.10 Collection Sewers - Force Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 75 *Survivor Curve:* R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2000	586,262.66	75.00	7,816.84	49.40	386,146.62
2001	842,675.79	75.00	11,235.68	50.29	565,088.96
2002	1,641,311.75	75.00	21,884.16	51.20	1,120,390.43
2003	401,042.35	75.00	5,347.23	52.10	278,601.94
2004	2,358,294.55	75.00	31,443.93	53.01	1,666,918.24
2005	645,520.63	75.00	8,606.94	53.93	464,168.40
2006	1,928,920.50	75.00	25,718.94	54.85	1,410,679.42
2007	1,259,669.17	75.00	16,795.59	55.77	936,763.24
2008	4,640,440.51	75.00	61,872.54	56.71	3,508,484.98
2009	1,033,039.11	75.00	13,773.85	57.64	793,905.75
2010	739,206.52	75.00	9,856.09	58.58	577,330.00
2013	289,015.87	75.00	3,853.54	61.41	236,658.10
2014	4,323,076.29	75.00	57,641.01	62.37	3,594,880.32
2015	2,369,938.64	75.00	31,599.18	63.32	2,000,941.91
2016	3,107,951.57	75.00	41,439.35	64.28	2,663,780.71
2017	3,455,769.80	75.00	46,076.93	65.24	3,006,261.19
2018	1,039,425.79	75.00	13,859.01	66.21	917,595.67
2019	4,273,152.31	75.00	56,975.36	67.18	3,827,421.05
2020	2,053,343.36	75.00	27,377.91	68.15	1,865,742.41
2021	2,126,300.27	75.00	28,350.67	69.12	1,959,608.06
2022	1,464,987.65	75.00	19,533.17	70.10	1,369,179.23
2023	2,380,782.02	75.00	31,743.76	71.07	2,256,116.08
2024	3,192,876.24	75.00	42,571.68	72.05	3,067,365.10
2025	1,681,466.38	75.00	22,419.55	73.03	1,637,357.27
2026	253,797.13	75.00	3,383.96	74.02	250,466.35
2027	14,944,940.28	75.00	199,265.86	74.75	14,895,893.69

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
360.10 Collection Sewers - Force Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	72,388,809.47	75.00	965,184.09	62.28	60,114,740.12

Composite Average Remaining Life ... 62.28 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 *Survivor Curve:* R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1915	20,523.49	80.00	256.54	8.97	2,300.21
1916	840.11	80.00	10.50	9.20	96.64
1917	659.36	80.00	8.24	9.43	77.73
1919	738.61	80.00	9.23	9.91	91.51
1920	96,428.02	80.00	1,205.35	10.16	12,243.86
1921	563.05	80.00	7.04	10.41	73.25
1922	3,067.14	80.00	38.34	10.65	408.19
1924	823.92	80.00	10.30	11.16	114.95
1925	2,658.83	80.00	33.24	11.42	379.49
1926	30,554.36	80.00	381.93	11.69	4,462.96
1927	4,416.23	80.00	55.20	11.96	660.14
1928	6,770.12	80.00	84.63	12.24	1,035.65
1929	6,562.83	80.00	82.04	12.52	1,027.40
1930	202,971.73	80.00	2,537.14	12.81	32,497.82
1931	12,383.06	80.00	154.79	13.11	2,028.87
1932	22,940.85	80.00	286.76	13.41	3,846.52
1933	13,618.03	80.00	170.23	13.72	2,336.30
1934	3,744.60	80.00	46.81	14.05	657.48
1935	436,042.31	80.00	5,450.53	14.38	78,363.51
1936	336,776.82	80.00	4,209.71	14.72	61,954.17
1937	53,260.51	80.00	665.76	15.07	10,030.24
1938	48,980.71	80.00	612.26	15.42	9,443.00
1939	53,168.50	80.00	664.61	15.79	10,495.16
1940	17,800.78	80.00	222.51	16.17	3,597.95
1941	7,827.77	80.00	97.85	16.56	1,620.24
1942	31,558.19	80.00	394.48	16.96	6,689.63
1943	2,116,412.66	80.00	26,455.14	17.37	459,470.95

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1944	3,802.57	80.00	47.53	17.79	845.51
1945	37,528.71	80.00	469.11	18.22	8,547.55
1946	91,816.83	80.00	1,147.71	18.66	21,419.96
1947	22,657.67	80.00	283.22	19.12	5,414.10
1948	4,735.42	80.00	59.19	19.58	1,158.98
1949	2,840.92	80.00	35.51	20.06	712.24
1950	62,809.51	80.00	785.12	20.54	16,128.49
1951	9,154.61	80.00	114.43	21.04	2,407.56
1952	3,036.89	80.00	37.96	21.55	817.90
1953	411,491.67	80.00	5,143.64	22.06	113,482.18
1954	205,672.88	80.00	2,570.91	22.59	58,089.56
1955	84,314.88	80.00	1,053.94	23.13	24,381.16
1956	35,887.80	80.00	448.60	23.68	10,623.54
1957	876,983.27	80.00	10,962.28	24.24	265,762.51
1958	40,912.53	80.00	511.41	24.81	12,689.24
1961	44,223.63	80.00	552.79	26.57	14,690.19
1962	44,999.85	80.00	562.50	27.19	15,291.59
1963	29,697.40	80.00	371.22	27.80	10,319.99
1965	300,616.96	80.00	3,757.71	29.06	109,197.03
1966	20,978,961.30	80.00	262,236.83	29.70	7,788,671.60
1968	34,034.82	80.00	425.43	31.01	13,191.42
1969	393,211.46	80.00	4,915.14	31.67	155,668.27
1970	773,229.81	80.00	9,665.37	32.35	312,656.14
1971	7,054.86	80.00	88.19	33.03	2,912.63
1972	6,136,527.70	80.00	76,706.54	33.72	2,586,217.26
1974	110,771.85	80.00	1,384.65	35.12	48,622.91
1975	3,718,066.89	80.00	46,475.80	35.82	1,664,984.67

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1976	299,586.75	80.00	3,744.83	36.54	136,837.07
1977	179,297.98	80.00	2,241.22	37.26	83,512.71
1978	77,907.33	80.00	973.84	37.99	37,001.04
1979	96,739.39	80.00	1,209.24	38.73	46,834.72
1980	3,199,201.12	80.00	39,989.99	39.47	1,578,501.52
1982	19,163.32	80.00	239.54	40.98	9,815.95
1983	24,382,464.80	80.00	304,780.60	41.74	12,721,192.44
1984	2,786,636.26	80.00	34,832.93	42.51	1,480,583.83
1985	3,470,258.69	80.00	43,378.20	43.28	1,877,294.43
1986	1,036,161.52	80.00	12,952.01	44.06	570,654.57
1987	1,001,848.25	80.00	12,523.09	44.84	561,579.75
1988	2,963,908.45	80.00	37,048.83	45.63	1,690,660.40
1989	2,329,834.01	80.00	29,122.90	46.43	1,352,205.58
1990	5,998,252.65	80.00	74,978.11	47.23	3,541,408.25
1992	5,271,178.25	80.00	65,889.68	48.85	3,218,783.43
1993	6,403,723.65	80.00	80,046.49	49.67	3,975,745.21
1994	592,504.88	80.00	7,406.31	50.49	373,969.14
1995	10,206,561.00	80.00	127,581.92	51.32	6,547,649.49
1996	416,899.43	80.00	5,211.24	52.15	271,785.44
1997	3,277,549.29	80.00	40,969.34	52.99	2,171,098.24
1998	3,169,055.68	80.00	39,613.17	53.84	2,132,623.91
1999	2,446,099.42	80.00	30,576.22	54.68	1,672,022.77
2000	3,478,741.87	80.00	43,484.24	55.54	2,414,930.73
2001	1,788,885.37	80.00	22,361.05	56.39	1,260,988.20
2002	3,113,924.83	80.00	38,924.03	57.26	2,228,630.67
2003	2,130,695.41	80.00	26,633.67	58.12	1,547,996.33
2004	1,180,826.56	80.00	14,760.32	58.99	870,737.55

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2005	7,367,034.62	80.00	92,087.87	59.87	5,512,917.82
2006	1,884,870.57	80.00	23,560.87	60.75	1,431,242.33
2007	6,265,481.26	80.00	78,318.46	61.63	4,826,714.82
2008	8,378,286.42	80.00	104,728.51	62.52	6,547,192.51
2009	7,851,921.60	80.00	98,148.95	63.41	6,223,239.37
2010	5,154,879.50	80.00	64,435.95	64.30	4,143,382.64
2011	3,143,153.17	80.00	39,289.39	65.20	2,561,685.25
2012	2,043,306.15	80.00	25,541.31	66.10	1,688,330.43
2013	4,143,211.79	80.00	51,790.11	67.01	3,470,366.41
2014	12,085,120.84	80.00	151,063.90	67.92	10,259,816.58
2015	5,345,020.57	80.00	66,812.71	68.83	4,598,650.98
2016	5,939,504.73	80.00	74,243.76	69.74	5,178,054.19
2017	15,499,350.91	80.00	193,741.75	70.66	13,690,166.78
2018	2,820,212.96	80.00	35,252.64	71.58	2,523,549.69
2019	13,392,262.57	80.00	167,403.17	72.51	12,138,227.93
2020	3,497,016.10	80.00	43,712.67	73.44	3,210,079.61
2021	5,357,659.44	80.00	66,970.70	74.37	4,980,386.28
2022	4,634,586.09	80.00	57,932.29	75.30	4,362,262.37
2023	5,000,321.01	80.00	62,503.97	76.23	4,764,956.85
2024	9,625,053.19	80.00	120,313.08	77.17	9,284,800.79
2025	11,150,622.18	80.00	139,382.68	78.11	10,887,439.20
2026	7,815,933.92	80.00	97,699.11	79.06	7,723,639.56
2027	3,788,436.33	80.00	47,355.42	79.76	3,777,249.72
Total	281,498,287.36	80.00	3,518,726.13	57.44	202,130,303.48

Composite Average Remaining Life ... 57.44 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1916	1,708.78	0.00	0.00	0.00	0.00
1917	10,281.95	0.00	0.00	0.00	0.00
1921	3,433.61	0.00	0.00	0.00	0.00
1924	2,497.63	0.00	0.00	0.00	0.00
1925	119,480.19	0.00	0.00	0.00	0.00
1926	122,584.31	0.00	0.00	0.00	0.00
1927	26,288.09	0.00	0.00	0.00	0.00
1928	18,205.30	0.00	0.00	0.00	0.00
1930	94,830.36	50.00	1,896.61	0.65	1,229.28
1931	62,750.03	50.00	1,255.00	0.81	1,010.80
1932	11,684.90	50.00	233.70	0.97	227.04
1933	3,378.29	50.00	67.57	1.14	77.33
1934	8,669.66	50.00	173.39	1.32	229.33
1935	56,776.01	50.00	1,135.52	1.50	1,708.89
1936	107,860.35	50.00	2,157.21	1.69	3,647.26
1937	62,178.87	50.00	1,243.58	1.88	2,337.48
1938	64,062.39	50.00	1,281.25	2.07	2,654.24
1939	89,725.61	50.00	1,794.51	2.27	4,067.19
1940	29,683.47	50.00	593.67	2.46	1,462.81
1941	5,280.49	50.00	105.61	2.66	281.38
1942	61,265.61	50.00	1,225.31	2.87	3,513.67
1943	2,071,453.41	50.00	41,429.07	3.07	127,337.55
1944	12,325.36	50.00	246.51	3.28	809.19
1945	10,687.30	50.00	213.75	3.49	746.95
1946	65,615.97	50.00	1,312.32	3.71	4,868.18
1947	52,069.58	50.00	1,041.39	3.93	4,090.33
1948	10,251.91	50.00	205.04	4.15	850.74

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1949	7,951.50	50.00	159.03	4.37	695.58
1950	45,066.63	50.00	901.33	4.60	4,148.03
1951	23,745.82	50.00	474.92	4.83	2,295.69
1952	12,328.08	50.00	246.56	5.07	1,249.91
1953	603,126.13	50.00	12,062.52	5.31	64,035.44
1954	290,165.90	50.00	5,803.32	5.55	32,219.30
1955	122,165.89	50.00	2,443.32	5.80	14,169.36
1956	68,536.97	50.00	1,370.74	6.05	8,294.12
1957	34,726.87	50.00	694.54	6.31	4,380.36
1958	53,825.07	50.00	1,076.50	6.57	7,069.90
1961	78,437.58	50.00	1,568.75	7.38	11,575.18
1962	47,470.15	50.00	949.40	7.66	7,271.82
1963	45,709.85	50.00	914.20	7.95	7,263.91
1965	60,583.02	50.00	1,211.66	8.54	10,342.45
1966	4,477,233.63	50.00	89,544.68	8.84	791,576.88
1968	34,747.92	50.00	694.96	9.47	6,579.99
1969	76,873.36	50.00	1,537.47	9.79	15,055.79
1970	144,982.60	50.00	2,899.65	10.12	29,356.89
1971	13,528.58	50.00	270.57	10.46	2,831.13
1972	1,023,775.62	50.00	20,475.51	10.81	221,352.40
1974	8,883.40	50.00	177.67	11.53	2,048.43
1975	592,706.49	50.00	11,854.13	11.90	141,089.09
1977	42,325.14	50.00	846.50	12.68	10,729.45
1979	34,110.25	50.00	682.21	13.49	9,201.27
1980	1,183,440.38	50.00	23,668.81	13.91	329,223.15
1983	803,941.88	50.00	16,078.84	15.24	245,101.29
1984	133,148.93	50.00	2,662.98	15.71	41,842.06

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1985	763,969.43	50.00	15,279.39	16.19	247,434.89
1986	204,386.75	50.00	4,087.74	16.69	68,219.18
1987	235,353.23	50.00	4,707.06	17.20	80,947.86
1988	294,291.32	50.00	5,885.83	17.72	104,294.04
1989	21,340.67	50.00	426.81	18.26	7,792.10
1990	1,667,969.55	50.00	33,359.39	18.81	627,435.33
1992	570,990.30	50.00	11,419.81	19.96	227,924.65
1993	357,698.08	50.00	7,153.96	20.56	147,071.19
1994	239,645.58	50.00	4,792.91	21.17	101,484.59
1995	2,828,882.56	50.00	56,577.65	21.81	1,233,773.92
1996	171,302.11	50.00	3,426.04	22.46	76,938.19
1997	1,034,401.35	50.00	20,688.03	23.12	478,402.22
1998	488,699.35	50.00	9,773.99	23.81	232,720.18
1999	594,590.05	50.00	11,891.80	24.51	291,513.01
2000	572,993.30	50.00	11,459.87	25.24	289,196.64
2001	379,015.40	50.00	7,580.31	25.98	196,904.03
2002	745,940.74	50.00	14,918.82	26.73	398,842.21
2003	627,699.86	50.00	12,554.00	27.51	345,371.58
2004	601,704.18	50.00	12,034.08	28.31	340,633.56
2005	2,283,152.98	50.00	45,663.06	29.12	1,329,639.23
2006	170,942.66	50.00	3,418.85	29.95	102,390.64
2007	2,052,406.49	50.00	41,048.13	30.80	1,264,132.32
2008	2,385,073.39	50.00	47,701.47	31.66	1,510,252.48
2009	238,746.39	50.00	4,774.93	32.54	155,379.43
2010	783,231.82	50.00	15,664.64	33.44	523,765.34
2011	1,314,361.55	50.00	26,287.23	34.35	902,863.93
2012	96,965.97	50.00	1,939.32	35.27	68,398.97

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2013	1,061,651.69	50.00	21,233.04	36.21	768,754.14
2014	2,194,126.53	50.00	43,882.53	37.15	1,630,367.72
2015	5,518,736.55	50.00	110,374.74	38.11	4,206,458.95
2016	283,117.02	50.00	5,662.34	39.08	221,270.09
2017	406,371.52	50.00	8,127.43	40.05	325,521.11
2018	185,756.03	50.00	3,715.12	41.03	152,444.28
2019	153,154.22	50.00	3,063.08	42.02	128,711.58
2020	686,913.25	50.00	13,738.27	43.01	590,901.61
2021	448,215.72	50.00	8,964.31	44.01	394,481.80
2022	1,007,192.84	50.00	20,143.86	45.00	906,525.72
2023	923,444.93	50.00	18,468.90	46.00	849,586.95
2024	1,617,239.57	50.00	32,344.79	47.00	1,520,213.64
2025	1,685,589.28	50.00	33,711.79	48.00	1,618,166.97
2026	1,906,007.77	50.00	38,120.16	49.00	1,867,887.84
2027	930,211.76	50.00	18,604.24	49.75	925,560.65
Total	53,982,050.81	45.83	1,073,551.49	27.61	29,642,723.25

Composite Average Remaining Life ... 27.61 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1931	10,084.38	0.00	0.00	0.00	0.00
1932	11,211.00	0.00	0.00	0.00	0.00
1933	1,157.00	0.00	0.00	0.00	0.00
1934	5,593.14	0.00	0.00	0.00	0.00
1935	43,471.92	0.00	0.00	0.00	0.00
1936	97,516.37	0.00	0.00	0.00	0.00
1937	43,969.37	0.00	0.00	0.00	0.00
1938	49,527.62	0.00	0.00	0.00	0.00
1939	40,079.54	0.00	0.00	0.00	0.00
1940	14,484.54	0.00	0.00	0.00	0.00
1941	2,977.45	0.00	0.00	0.00	0.00
1942	35,884.11	0.00	0.00	0.00	0.00
1943	2,681,174.70	0.00	0.00	0.00	0.00
1944	12,035.25	0.00	0.00	0.00	0.00
1945	9,883.91	0.00	0.00	0.00	0.00
1946	41,722.50	0.00	0.00	0.00	0.00
1947	33,752.47	0.00	0.00	0.00	0.00
1948	2,883.04	47.00	61.34	0.50	30.67
1949	3,140.75	47.00	66.82	0.54	35.91
1950	11,627.93	47.00	247.40	0.69	171.92
1951	6,404.14	47.00	136.26	0.89	121.56
1952	3,351.56	47.00	71.31	1.11	78.94
1953	453,658.76	47.00	9,652.34	1.31	12,646.23
1954	96,142.27	47.00	2,045.59	1.56	3,186.31
1955	36,429.82	47.00	775.10	1.81	1,399.23
1956	19,650.41	47.00	418.09	2.05	859.16
1957	161,062.92	47.00	3,426.88	2.31	7,906.27

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1958	14,245.92	47.00	303.11	2.56	776.38
1961	10,615.34	47.00	225.86	3.32	749.53
1962	15,649.96	47.00	332.98	3.58	1,191.01
1963	7,038.40	47.00	149.75	3.84	574.32
1965	53,591.71	47.00	1,140.25	4.35	4,965.06
1966	8,823,991.30	47.00	187,744.97	4.62	866,935.41
1968	11,645.48	47.00	247.78	5.16	1,278.27
1969	7,887.07	47.00	167.81	5.43	912.01
1970	359,809.59	47.00	7,655.54	5.73	43,840.54
1971	9,742.84	47.00	207.29	6.03	1,249.98
1972	578,146.49	47.00	12,301.02	6.35	78,065.63
1973	2,200.98	47.00	46.83	6.68	312.68
1974	8,059.17	47.00	171.47	7.02	1,204.31
1975	1,619,022.31	47.00	34,447.37	7.39	254,444.86
1976	52,346.22	47.00	1,113.75	7.77	8,650.94
1977	54,975.21	47.00	1,169.69	8.17	9,553.41
1978	31,761.76	47.00	675.78	8.59	5,802.84
1979	43,892.32	47.00	933.88	9.03	8,429.15
1980	778,787.22	47.00	16,569.98	9.49	157,167.53
1981	70,617.03	47.00	1,502.49	9.96	14,971.48
1982	58,190.81	47.00	1,238.11	10.46	12,955.51
1983	282,004.02	47.00	6,000.10	10.98	65,903.02
1984	246,076.85	47.00	5,235.69	11.53	60,345.10
1985	1,662,326.20	47.00	35,368.73	12.09	427,441.95
1986	222,889.19	47.00	4,742.34	12.66	60,056.66
1987	747,613.82	47.00	15,906.72	13.26	210,940.65
1988	324,389.38	47.00	6,901.92	13.88	95,772.51

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1989	307,266.48	47.00	6,537.60	14.51	94,851.79
1990	3,418,087.95	47.00	72,725.46	15.16	1,102,356.72
1991	78,164.24	47.00	1,663.07	15.82	26,314.74
1992	454,051.03	47.00	9,660.68	16.51	159,460.15
1993	746,576.77	47.00	15,884.65	17.20	273,245.69
1994	247,543.75	47.00	5,266.90	17.91	94,339.79
1995	6,415,372.85	47.00	136,497.64	18.64	2,543,690.34
1996	128,373.89	47.00	2,731.37	19.37	52,912.51
1997	434,181.64	47.00	9,237.93	20.12	185,882.47
1998	398,430.58	47.00	8,477.27	20.88	177,034.74
1999	275,413.49	47.00	5,859.88	21.66	126,908.81
2000	1,032,626.41	47.00	21,970.83	22.44	493,129.18
2001	361,024.06	47.00	7,681.38	23.24	178,529.41
2002	475,921.40	47.00	10,126.01	24.05	243,530.64
2003	581,343.89	47.00	12,369.05	24.87	307,605.66
2004	948,001.71	47.00	20,170.30	25.70	518,346.99
2005	2,826,407.31	47.00	60,136.48	26.54	1,595,925.86
2006	998,500.87	47.00	21,244.75	27.39	581,858.81
2007	692,370.48	47.00	14,731.32	28.25	416,132.42
2008	2,554,725.14	47.00	54,355.99	29.12	1,582,795.99
2009	2,499,139.08	47.00	53,173.31	30.00	1,595,088.55
2010	959,858.83	47.00	20,422.58	30.89	630,765.97
2011	234,979.02	47.00	4,999.57	31.78	158,896.91
2012	244,065.13	47.00	5,192.89	32.69	169,739.24
2013	567,485.59	47.00	12,074.19	33.60	405,687.40
2014	644,205.22	47.00	13,706.53	34.52	473,146.87
2015	1,272,903.79	47.00	27,083.13	35.45	960,023.92

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *47* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2016	680,818.87	47.00	14,485.54	36.38	527,022.98
2017	2,245,670.49	47.00	47,780.34	37.32	1,783,332.51
2018	745,891.37	47.00	15,870.07	38.27	607,354.63
2019	408,232.69	47.00	8,685.82	39.22	340,683.65
2020	975,566.42	47.00	20,756.78	40.18	834,021.65
2021	986,004.44	47.00	20,978.87	41.14	863,138.61
2022	1,384,364.93	47.00	29,454.65	42.11	1,240,342.06
2023	2,690,297.63	47.00	57,240.52	43.08	2,465,996.47
2024	2,706,854.19	47.00	57,592.79	44.06	2,537,344.21
2025	3,977,098.06	47.00	84,619.32	45.03	3,810,814.89
2026	10,654,773.46	47.00	226,697.88	46.02	10,431,728.55
2027	6,170,784.56	47.00	131,293.62	46.75	6,138,428.77
Total	83,449,771.17	38.41	1,708,839.32	28.76	49,149,337.48

Composite Average Remaining Life ... 28.76 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
364.00 Flow Measuring Devices
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 15 **Survivor Curve:** L2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1989	7,979.00	15.00	531.93	0.92	490.12
1990	3,478.54	15.00	231.90	1.09	251.68
1991	8,740.98	15.00	582.73	1.25	728.06
1992	6,784.52	15.00	452.30	1.42	642.93
1999	51,368.90	15.00	3,424.58	2.76	9,449.12
2001	7,764.93	15.00	517.66	3.19	1,649.72
2002	4,455.38	15.00	297.02	3.41	1,013.38
2004	2,628.68	15.00	175.24	3.88	679.81
2005	8,722.16	15.00	581.48	4.12	2,397.63
2006	15,631.29	15.00	1,042.08	4.37	4,555.02
2007	9,030.61	15.00	602.04	4.62	2,782.54
2008	29,418.95	15.00	1,961.26	4.87	9,558.63
2009	92,082.61	15.00	6,138.83	5.12	31,445.97
2010	29,477.55	15.00	1,965.17	5.37	10,548.21
2011	53,822.99	15.00	3,588.19	5.61	20,127.11
2013	26,874.75	15.00	1,791.65	6.09	10,910.65
2014	152,277.99	15.00	10,151.84	6.34	64,394.36
2015	112,570.79	15.00	7,504.70	6.62	49,669.76
2016	5,515.89	15.00	367.73	6.93	2,548.54
2018	1,269.20	15.00	84.61	7.73	653.98
2020	30,025.23	15.00	2,001.68	8.86	17,742.83
2021	21,591.05	15.00	1,439.40	9.58	13,786.15
2024	57,960.15	15.00	3,864.00	12.10	46,763.48
Total	739,472.14	15.00	49,298.02	6.14	302,789.69

Composite Average Remaining Life ... 6.14 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
365.00 Flow Measuring Installations

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *25* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1970	30,360.76	0.00	0.00	0.00	0.00
1991	227,265.28	25.00	9,090.61	2.92	26,506.51
2009	14,938.00	25.00	597.52	9.69	5,790.30
Total	272,564.04	16.67	9,688.13	3.33	32,296.81

Composite Average Remaining Life ... 3.33 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
370.00 Receiving Wells

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2007	6,261.10	50.00	125.22	31.16	3,902.38
2009	92,112.20	50.00	1,842.24	32.93	60,670.76
2013	33,467.05	50.00	669.34	36.57	24,475.56
2017	1,547.02	50.00	30.94	40.31	1,247.19
2019	544,001.01	50.00	10,880.01	42.22	459,301.10
Total	677,388.38	50.00	13,547.76	40.57	549,597.00

Composite Average Remaining Life ... *40.57 Years*

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
371.00 Pumping Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 30 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1968	43,537.43	30.00	1,451.24	0.50	725.62
1985	23,931.70	30.00	797.72	6.17	4,923.87
1986	78,755.03	30.00	2,625.16	6.53	17,137.54
1987	7,538.75	30.00	251.29	6.89	1,730.62
1989	24,959.60	30.00	831.98	7.62	6,339.81
1990	1,830.59	30.00	61.02	7.99	487.76
1992	111,067.53	30.00	3,702.24	8.76	32,424.96
1993	161,450.75	30.00	5,381.68	9.15	49,237.99
1994	15,602.60	30.00	520.09	9.55	4,965.29
1996	55,848.44	30.00	1,861.61	10.36	19,293.27
1997	42,929.52	30.00	1,430.98	10.78	15,430.97
1998	107,358.54	30.00	3,578.61	11.21	40,120.97
1999	535,319.69	30.00	17,843.95	11.65	207,843.51
2001	14,819.76	30.00	493.99	12.55	6,198.72
2002	60,786.29	30.00	2,026.21	13.01	26,368.13
2003	119,405.30	30.00	3,980.17	13.49	53,689.15
2004	164,629.92	30.00	5,487.65	13.98	76,694.37
2005	100,511.00	30.00	3,350.36	14.47	48,495.64
2006	40,675.72	30.00	1,355.85	14.99	20,318.28
2007	5,976.90	30.00	199.23	15.51	3,089.91
2008	918,606.85	30.00	30,620.16	16.05	491,374.77
2009	592,997.19	30.00	19,766.53	16.60	328,111.13
2010	520,149.47	30.00	17,338.28	17.17	297,632.02
2011	66,367.45	30.00	2,212.24	17.75	39,267.18
2012	41,542.94	30.00	1,384.76	18.35	25,409.83
2013	59,887.39	30.00	1,996.24	18.97	37,861.95
2014	1,677,270.11	30.00	55,908.89	19.60	1,095,995.27

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
371.00 Pumping Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 30 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2015	230,646.95	30.00	7,688.22	20.26	155,749.80
2016	614,555.78	30.00	20,485.15	20.93	428,821.19
2017	393,461.38	30.00	13,115.35	21.63	283,696.43
2018	469,352.88	30.00	15,645.06	22.35	349,660.45
2019	3,669,520.16	30.00	122,317.08	23.09	2,824,446.50
2020	645,615.09	30.00	21,520.46	23.86	513,445.74
2021	200,035.46	30.00	6,667.83	24.65	164,360.97
2022	2,626,111.15	30.00	87,536.86	25.47	2,229,312.31
2023	2,042,520.43	30.00	68,083.87	26.31	1,791,516.84
2024	1,052,785.16	30.00	35,092.77	27.19	954,062.94
2025	2,751,246.88	30.00	91,708.04	28.09	2,576,079.64
2026	360,011.44	30.00	12,000.36	29.03	348,334.03
2027	119,732.13	30.00	3,991.06	29.75	118,741.89
Total	20,769,351.35	30.00	692,310.26	22.66	15,689,397.24

Composite Average Remaining Life ... 22.66 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
380.00 Treatment Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S1.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1951	869,028.06	0.00	0.00	0.00	0.00
1957	9,841.23	0.00	0.00	0.00	0.00
1963	77,378.12	35.00	2,210.80	1.60	3,541.16
1965	82,103.66	35.00	2,345.82	2.10	4,930.82
1967	159,748.96	35.00	4,564.26	2.60	11,883.44
1969	2,116.01	35.00	60.46	3.11	187.87
1973	934.98	35.00	26.71	4.12	110.06
1981	2,335,686.36	35.00	66,733.89	6.31	421,253.57
1984	577,017.16	35.00	16,486.20	7.23	119,177.41
1985	473,103.53	35.00	13,517.24	7.55	102,042.95
1986	714,890.40	35.00	20,425.44	7.88	160,908.05
1987	143,376.89	35.00	4,096.48	8.22	33,655.02
1988	803,720.20	35.00	22,963.43	8.56	196,632.95
1989	1,175,516.70	35.00	33,586.19	8.92	299,610.98
1990	2,516,545.54	35.00	71,901.30	9.29	667,835.84
1991	2,220,238.53	35.00	63,435.38	9.67	613,234.63
1992	797,780.53	35.00	22,793.73	10.06	229,253.61
1993	3,113,751.23	35.00	88,964.31	10.46	930,641.16
1994	58,236.15	35.00	1,663.89	10.88	18,098.03
1995	7,305.96	35.00	208.74	11.31	2,360.18
1996	78,290.66	35.00	2,236.88	11.75	26,283.73
1997	19,971.86	35.00	570.62	12.21	6,966.92
1998	3,723,812.92	35.00	106,394.65	12.68	1,349,516.26
1999	1,072,778.34	35.00	30,650.81	13.18	403,830.33
2000	5,173.73	35.00	147.82	13.68	2,022.69
2001	1,758,916.41	35.00	50,254.75	14.21	714,080.80
2002	619,740.95	35.00	17,706.88	14.75	261,237.87

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
380.00 Treatment Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S1.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2003	2,037,025.78	35.00	58,200.73	15.32	891,375.87
2004	696,637.40	35.00	19,903.92	15.90	316,451.01
2005	2,237,683.28	35.00	63,933.80	16.50	1,055,074.82
2006	691,002.47	35.00	19,742.93	17.13	338,140.45
2007	56,074.46	35.00	1,602.13	17.77	28,474.76
2008	933,875.01	35.00	26,682.14	18.44	492,040.93
2009	18,903,175.91	35.00	540,090.70	19.13	10,332,344.91
2010	21,338,710.76	35.00	609,677.41	19.84	12,097,009.22
2011	7,082,121.17	35.00	202,346.31	20.58	4,163,731.51
2012	4,792,712.70	35.00	136,934.64	21.34	2,921,571.14
2013	3,048,389.90	35.00	87,096.85	22.12	1,926,265.16
2014	8,801,285.00	35.00	251,465.27	22.92	5,763,471.66
2015	1,026,201.69	35.00	29,320.05	23.74	696,196.49
2016	540,948.41	35.00	15,455.67	24.59	380,075.49
2017	651,445.92	35.00	18,612.74	25.46	473,832.73
2018	4,753,330.11	35.00	135,809.42	26.35	3,577,920.31
2019	1,905,200.06	35.00	54,434.28	27.25	1,483,422.31
2020	8,553,773.25	35.00	244,393.50	28.18	6,885,936.63
2021	10,536,512.36	35.00	301,043.19	29.12	8,765,111.74
2022	11,385,788.79	35.00	325,308.23	30.07	9,782,228.31
2023	11,445,225.10	35.00	327,006.41	31.04	10,149,789.71
2024	4,163,228.27	35.00	118,949.37	32.02	3,808,405.53
2025	4,713,706.90	35.00	134,677.33	33.01	4,445,095.67
2026	3,361,450.74	35.00	96,041.44	34.00	3,265,484.48
2027	1,824,026.48	35.00	52,115.04	34.75	1,810,996.20

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
380.00 Treatment Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	158,896,536.99	33.65	4,514,790.19	22.69	102,429,743.34

Composite Average Remaining Life ... *22.69 Years*

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
381.00 Plant Sewers

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2008	294,411.86	50.00	5,888.23	32.04	188,683.84
2009	4,434,866.70	50.00	88,697.29	32.93	2,921,075.78
2010	1,187,964.50	50.00	23,759.28	33.83	803,778.18
2011	6,597.06	50.00	131.94	34.73	4,582.96
2012	1,684.33	50.00	33.69	35.65	1,200.83
2014	234,044.45	50.00	4,680.89	37.49	175,500.50
2015	4,256.52	50.00	85.13	38.43	3,271.20
2016	45,239.43	50.00	904.79	39.36	35,616.82
2021	1,641.43	50.00	32.83	44.14	1,449.04
2022	431,044.32	50.00	8,620.88	45.11	388,871.34
2025	13,045.20	50.00	260.90	48.03	12,532.40
Total	6,654,795.80	50.00	133,095.85	34.08	4,536,562.89

Composite Average Remaining Life ... 34.08 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
382.00 Outfall Sewer Lines

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1957	12,139.53	50.00	242.79	3.59	871.54
1975	4,177.28	50.00	83.55	9.19	767.76
1993	192,691.50	50.00	3,853.83	19.86	76,521.73
2004	1,695.94	50.00	33.92	28.58	969.24
2005	9,240.93	50.00	184.82	29.43	5,439.04
2006	201,117.58	50.00	4,022.35	30.29	121,844.77
2009	26,051.26	50.00	521.02	32.93	17,158.96
2010	27,827.93	50.00	556.56	33.83	18,828.41
2014	100,305.10	50.00	2,006.10	37.49	75,214.75
2017	18,433.32	50.00	368.67	40.31	14,860.78
2023	33,315.31	50.00	666.31	46.08	30,703.55
Total	626,995.68	50.00	12,539.91	28.96	363,180.54

Composite Average Remaining Life ... 28.96 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
389.10 Other Plant - Intangibles

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2010	273,149.74	20.00	13,657.49	6.39	87,221.45
2013	8,814.50	20.00	440.73	7.99	3,520.10
2022	91,911.93	20.00	4,595.60	15.05	69,175.00
2023	1,990,538.30	20.00	99,526.92	16.02	1,594,516.39
2024	272,366.55	20.00	13,618.33	17.01	231,595.62
2025	22,280.04	20.00	1,114.00	18.00	20,053.20
Total	2,659,061.06	20.00	132,953.06	15.09	2,006,081.76

Composite Average Remaining Life ... 15.09 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
391.00 Transportation Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 14 **Survivor Curve:** L4

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1986	6,625.93	0.00	0.00	0.00	0.00
1987	468.88	0.00	0.00	0.00	0.00
1990	30,431.59	0.00	0.00	0.00	0.00
1991	21,931.10	0.00	0.00	0.00	0.00
2000	5,861.06	14.00	418.64	0.69	287.93
2001	22,361.85	14.00	1,597.24	0.79	1,261.10
2002	5,389.24	14.00	384.94	0.90	348.13
2005	3,310.52	14.00	236.46	1.32	312.72
2006	73,113.90	14.00	5,222.30	1.49	7,778.05
2011	149,228.96	14.00	10,658.97	2.49	26,548.91
2012	73,865.31	14.00	5,275.97	2.64	13,925.89
2013	62,726.96	14.00	4,480.40	2.78	12,460.82
2014	3,075.33	14.00	219.66	2.99	657.44
2016	2,423.80	14.00	173.12	3.89	674.05
2017	8,526.46	14.00	609.02	4.58	2,791.63
2018	927,895.26	14.00	66,276.73	5.36	355,317.66
2019	299,081.56	14.00	21,362.48	6.20	132,409.77
2020	26,190.18	14.00	1,870.68	7.09	13,262.10
2022	1,422,366.36	14.00	101,595.29	9.01	914,923.38
2023	1,165,809.58	14.00	83,270.22	10.00	832,744.75
2024	422,529.36	14.00	30,179.98	11.00	331,989.41
2025	3,630.70	14.00	259.33	12.00	3,112.04
2026	266,576.00	14.00	19,040.71	13.00	247,535.29
2027	77,983.00	14.00	5,570.09	13.75	76,590.48

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
391.00 Transportation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *14* ***Survivor Curve:*** *L4*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	5,081,402.89	11.67	358,702.25	8.29	2,974,931.55

Composite Average Remaining Life ... 8.29 Years

PAWC - Wastewater (SSS)
Wastewater Operations (SSS)
395.00 Power Operated Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *22* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2011	345,636.00	22.00	15,710.44	9.42	148,022.42
2015	3,257.24	22.00	148.05	12.13	1,795.95
2018	19,634.12	22.00	892.44	14.38	12,831.98
2022	64,677.17	22.00	2,939.82	17.62	51,800.94
2023	3,895.80	22.00	177.08	18.47	3,270.65
Total	437,100.33	22.00	19,867.84	10.96	217,721.94

Composite Average Remaining Life ... 10.96 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
354.20 Structures - Collection

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *43* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2026	465,513.27	43.00	10,825.97	42.02	454,863.40
2027	22,915,798.94	43.00	532,929.63	42.75	22,784,493.05
Total	23,381,312.21	43.00	543,755.60	42.74	23,239,356.45

Composite Average Remaining Life ... 42.74 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
354.30 Structures - SPP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1964	699,951.35	55.00	12,726.38	18.37	233,800.99
1969	27,685.26	55.00	503.37	20.54	10,338.56
1972	5,390.11	55.00	98.00	21.87	2,143.16
1979	312,467.50	55.00	5,681.22	25.07	142,419.92
1980	1,925,421.49	55.00	35,007.64	25.54	894,023.33
1981	1,006,124.74	55.00	18,293.16	26.01	475,813.20
1992	367,539.24	55.00	6,682.53	31.46	210,249.55
1999	101,094.83	55.00	1,838.09	35.23	64,755.51
2005	55,968.06	55.00	1,017.60	38.70	39,384.82
2010	464,545.22	55.00	8,446.27	41.82	353,214.39
2012	94,838.48	55.00	1,724.33	43.13	74,377.82
2013	22,305,947.27	55.00	405,562.40	43.81	17,767,038.08
2014	8,206,912.04	55.00	149,216.48	44.49	6,639,053.34
2016	592,801.05	55.00	10,778.19	45.90	494,771.45
2018	792,190.90	55.00	14,403.46	47.37	682,346.40
2023	9,247.84	55.00	168.14	51.36	8,635.00
Total	36,968,125.38	55.00	672,147.27	41.79	28,092,365.51

Composite Average Remaining Life ... 41.79 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1964	535,164.61	55.00	9,730.26	18.37	178,758.16
1965	1,945,016.40	55.00	35,363.91	18.80	664,848.06
1982	12,187,003.00	55.00	221,581.72	26.49	5,868,970.05
1993	445,465.16	55.00	8,099.36	31.98	259,056.56
1994	220,388.44	55.00	4,007.06	32.51	130,277.79
1995	91,800.02	55.00	1,669.09	33.04	55,154.25
2007	156,375.15	55.00	2,843.18	39.92	113,508.89
2011	840,813.68	55.00	15,287.51	42.47	649,279.96
2016	14,574.90	55.00	265.00	45.90	12,164.70
2017	164,519.97	55.00	2,991.27	46.63	139,488.20
2019	360,662.79	55.00	6,557.50	48.13	315,607.55
2022	54,845.32	55.00	997.19	50.52	50,374.90
2023	236,710.97	55.00	4,303.83	51.36	221,024.51
2024	9,360.58	55.00	170.19	52.22	8,887.16
2025	5,735.27	55.00	104.28	53.11	5,537.76
Total	17,268,436.26	55.00	313,971.35	27.62	8,672,938.49

Composite Average Remaining Life ... 27.62 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
354.70 Structures - General

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1966	145,801.64	55.00	2,650.94	19.23	50,980.93
1982	1,225,039.87	55.00	22,273.44	26.49	589,949.99
2003	628,157.38	55.00	11,421.04	37.52	428,472.88
2011	1,021,910.09	55.00	18,580.17	42.47	789,123.39
2012	719,107.69	55.00	13,074.68	43.13	563,965.84
2013	2,161,099.49	55.00	39,292.69	43.81	1,721,349.76
2015	122,608.96	55.00	2,229.25	45.19	100,744.68
2016	137,243.68	55.00	2,495.34	45.90	114,548.13
2020	9,134.74	55.00	166.09	48.91	8,122.57
2021	1,051,741.50	55.00	19,122.56	49.70	950,413.54
2023	54,795.46	55.00	996.28	51.36	51,164.25
2024	58,429.72	55.00	1,062.36	52.22	55,474.61
2025	30,491.59	55.00	554.39	53.11	29,441.52
2026	321,221.61	55.00	5,840.39	54.03	315,564.27
2027	611,271.13	55.00	11,114.01	54.76	608,550.60
Total	8,298,054.55	55.00	150,873.61	42.27	6,377,866.96

Composite Average Remaining Life ... 42.27 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
355.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1999	15,782.30	35.00	450.92	15.74	7,095.89
2000	52,360.25	35.00	1,496.00	16.22	24,268.99
2001	346,845.16	35.00	9,909.83	16.72	165,679.38
2005	41,623.25	35.00	1,189.23	18.81	22,371.76
2010	15,509.83	35.00	443.14	21.71	9,621.74
2013	621,166.53	35.00	17,747.57	23.63	419,450.43
2014	40,215.83	35.00	1,149.02	24.31	27,930.97
2016	74,060.67	35.00	2,116.01	25.71	54,406.52
2018	28,901.95	35.00	825.77	27.19	22,454.39
2021	63,989.80	35.00	1,828.28	29.57	54,069.79
2023	11,610.76	35.00	331.74	31.28	10,375.76
Total	1,312,066.33	35.00	37,487.51	21.81	817,725.61

Composite Average Remaining Life ... 21.81 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
360.10 Collection Sewers - Force Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1964	17,670.88	75.00	235.61	21.67	5,104.80
1969	43,735.32	75.00	583.14	24.88	14,508.48
1979	1,160,481.90	75.00	15,473.09	32.01	495,333.50
1980	3,297,197.01	75.00	43,962.63	32.77	1,440,659.52
2005	120,689.76	75.00	1,609.20	53.93	86,783.24
2010	48,159.59	75.00	642.13	58.58	37,613.27
2013	2,816,323.60	75.00	37,550.98	61.41	2,306,121.78
2016	85,454.40	75.00	1,139.39	64.28	73,241.74
2018	197,446.89	75.00	2,632.63	66.21	174,304.33
2023	76,315.55	75.00	1,017.54	71.07	72,319.41
2024	435,613.23	75.00	5,808.18	72.05	418,489.39
2025	135,260.74	75.00	1,803.48	73.03	131,712.51
2026	3,606.01	75.00	48.08	74.02	3,558.69
2027	3,606.01	75.00	48.08	74.75	3,594.18
Total	8,441,560.89	75.00	112,554.14	46.76	5,263,344.82

Composite Average Remaining Life ... 46.76 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *80* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1928	3,637,630.87	80.00	45,470.35	12.24	556,464.06
1935	4,023,274.17	80.00	50,290.89	14.38	723,044.30
1945	1,710,160.84	80.00	21,377.00	18.22	389,506.74
1954	1,186,915.36	80.00	14,836.43	22.59	335,228.40
1955	3,524,551.85	80.00	44,056.87	23.13	1,019,187.22
1960	5,223,193.78	80.00	65,289.88	25.98	1,696,108.10
1963	1,030,100.25	80.00	12,876.24	27.80	357,964.90
1964	2,079,750.68	80.00	25,996.87	28.42	738,934.60
1965	194,096.63	80.00	2,426.21	29.06	70,504.26
1967	443,614.20	80.00	5,545.17	30.35	168,296.60
1970	1,792,441.10	80.00	22,405.50	32.35	724,775.09
1972	271,120.53	80.00	3,389.00	33.72	114,262.76
1973	77,742.69	80.00	971.78	34.41	33,442.23
1974	3,482.95	80.00	43.54	35.12	1,528.83
1979	14,499,658.03	80.00	181,245.60	38.73	7,019,761.74
1980	24,689,428.45	80.00	308,617.64	39.47	12,181,885.07
1985	51,907.71	80.00	648.85	43.28	28,080.34
1986	92,090.74	80.00	1,151.13	44.06	50,717.96
1991	110,431.89	80.00	1,380.40	48.04	66,313.32
1993	842,780.76	80.00	10,534.75	49.67	523,239.56
1994	469,505.85	80.00	5,868.82	50.49	296,336.29
1997	195,777.96	80.00	2,447.22	52.99	129,686.28
1999	76,153.60	80.00	951.92	54.68	52,054.53
2000	295,646.82	80.00	3,695.58	55.54	205,237.01
2001	37,579.56	80.00	469.74	56.39	26,489.89
2002	704,945.07	80.00	8,811.81	57.26	504,527.98
2003	94,137.33	80.00	1,176.72	58.12	68,392.81

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
361.10 Collection Sewers - Gravity Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *80* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2004	359,867.28	80.00	4,498.34	58.99	265,364.93
2005	111,250.06	80.00	1,390.62	59.87	83,250.92
2006	283,486.98	80.00	3,543.58	60.75	215,260.70
2007	5,697,173.26	80.00	71,214.62	61.63	4,388,909.56
2008	119,833.64	80.00	1,497.92	62.52	93,643.72
2009	234,846.70	80.00	2,935.58	63.41	186,133.70
2010	245,335.06	80.00	3,066.69	64.30	197,195.11
2011	17,415.79	80.00	217.70	65.20	14,193.95
2012	3,754,870.86	80.00	46,935.85	66.10	3,102,551.59
2013	391,454.04	80.00	4,893.17	67.01	327,883.06
2014	4,325,043.65	80.00	54,063.01	67.92	3,671,800.65
2015	19,789.63	80.00	247.37	68.83	17,026.24
2016	566,691.56	80.00	7,083.64	69.74	494,041.13
2018	465,838.02	80.00	5,822.97	71.58	416,835.68
2019	113,300.54	80.00	1,416.26	72.51	102,691.22
2020	192,663.32	80.00	2,408.29	73.44	176,854.95
2021	284,879.57	80.00	3,560.99	74.37	264,819.05
2022	350,961.36	80.00	4,387.01	75.30	330,339.22
2023	276,107.66	80.00	3,451.34	76.23	263,111.33
2024	211,109.68	80.00	2,638.87	77.17	203,646.80
2025	126,609.78	80.00	1,582.62	78.11	123,621.47
2026	1,903,951.11	80.00	23,799.37	79.06	1,881,468.33
2027	8,018,398.73	80.00	100,229.91	79.76	7,994,721.75
Total	95,428,997.95	80.00	1,192,861.64	44.34	52,897,335.94

Composite Average Remaining Life ... 44.34 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1928	133,556.78	0.00	0.00	0.00	0.00
1935	142,923.76	50.00	2,858.48	1.50	4,301.85
1945	184,304.42	50.00	3,686.09	3.49	12,881.29
1954	139,593.31	50.00	2,791.87	5.55	15,500.10
1955	406,717.32	50.00	8,134.35	5.80	47,172.95
1960	619,841.51	50.00	12,396.83	7.10	88,056.65
1963	109,143.32	50.00	2,182.87	7.95	17,344.33
1964	318,037.52	50.00	6,360.75	8.24	52,398.14
1965	26,018.04	50.00	520.36	8.54	4,441.68
1967	40,634.41	50.00	812.69	9.15	7,436.70
1970	280,127.66	50.00	5,602.55	10.12	56,721.81
1972	6,426.32	50.00	128.53	10.81	1,389.45
1973	13,194.78	50.00	263.90	11.17	2,946.61
1979	2,334,275.62	50.00	46,685.52	13.49	629,672.57
1980	3,844,641.96	50.00	76,892.84	13.91	1,069,547.01
1985	33,650.94	50.00	673.02	16.19	10,898.89
1986	9,040.15	50.00	180.80	16.69	3,017.38
1991	15,506.88	50.00	310.14	19.38	6,009.11
1993	123,671.46	50.00	2,473.43	20.56	50,848.77
1994	54,664.84	50.00	1,093.30	21.17	23,149.35
1997	33,686.72	50.00	673.73	23.12	15,579.83
1999	14,805.69	50.00	296.11	24.51	7,258.87
2000	45,581.24	50.00	911.62	25.24	23,005.40
2001	30,843.29	50.00	616.87	25.98	16,023.54
2002	99,254.21	50.00	1,985.08	26.73	53,069.59
2003	478,011.02	50.00	9,560.22	27.51	263,010.13
2004	701,311.93	50.00	14,026.24	28.31	397,022.97

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2005	38,617.20	50.00	772.34	29.12	22,489.49
2006	57,803.32	50.00	1,156.07	29.95	34,622.83
2007	3,028.09	50.00	60.56	30.80	1,865.08
2008	78,067.24	50.00	1,561.34	31.66	49,432.96
2009	11,484.80	50.00	229.70	32.54	7,474.47
2010	56,286.31	50.00	1,125.73	33.44	37,639.97
2011	336,347.24	50.00	6,726.95	34.35	231,044.34
2012	485,106.42	50.00	9,702.13	35.27	342,189.95
2014	13,493.57	50.00	269.87	37.15	10,026.53
2016	103,973.46	50.00	2,079.47	39.08	81,260.45
2018	62,427.33	50.00	1,248.55	41.03	51,232.20
2019	62,386.00	50.00	1,247.72	42.02	52,429.51
2020	16,501.98	50.00	330.04	43.01	14,195.46
2021	140,858.75	50.00	2,817.18	44.01	123,972.03
2022	219,114.43	50.00	4,382.29	45.00	197,214.33
2023	49,274.81	50.00	985.50	46.00	45,333.77
2024	88,498.50	50.00	1,769.97	47.00	83,189.05
2025	36,190.85	50.00	723.82	48.00	34,743.24
2026	88,456.60	50.00	1,769.13	49.00	86,687.48
2027	89,523.39	50.00	1,790.47	49.75	89,075.77
Total	12,276,905.39	48.94	242,866.99	18.42	4,474,823.85

Composite Average Remaining Life ... 18.42 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1930	473,236.02	0.00	0.00	0.00	0.00
1935	515,912.25	0.00	0.00	0.00	0.00
1945	453,996.45	0.00	0.00	0.00	0.00
1954	95,864.12	47.00	2,039.67	1.56	3,177.09
1955	644,271.59	47.00	13,707.94	1.81	24,745.77
1960	790,470.95	47.00	16,818.57	3.07	51,692.29
1965	15,511.15	47.00	330.03	4.35	1,437.05
1967	3,838.04	47.00	81.66	4.89	398.93
1969	86,079.30	47.00	1,831.48	5.43	9,953.65
1970	119,594.09	47.00	2,544.56	5.73	14,571.79
1972	1,336.20	47.00	28.43	6.35	180.42
1973	4,522.36	47.00	96.22	6.68	642.46
1979	21,961.17	47.00	467.26	9.03	4,217.46
1980	4,271,406.47	47.00	90,881.22	9.49	862,015.16
1985	676.91	47.00	14.40	12.09	174.06
1986	3,701.60	47.00	78.76	12.66	997.38
1991	6,155.62	47.00	130.97	15.82	2,072.35
1993	68,060.03	47.00	1,448.09	17.20	24,909.84
1994	88,245.12	47.00	1,877.56	17.91	33,630.52
1997	11,290.25	47.00	240.22	20.12	4,833.60
1999	17,025.94	47.00	362.25	21.66	7,845.45
2000	70,672.68	47.00	1,503.68	22.44	33,749.63
2001	52,744.82	47.00	1,122.23	23.24	26,082.75
2002	397,170.52	47.00	8,450.46	24.05	203,233.54
2003	75,409.29	47.00	1,604.46	24.87	39,901.21
2004	56,276.34	47.00	1,197.37	25.70	30,770.69
2005	36,503.14	47.00	776.66	26.54	20,611.43

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *47* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2006	38,230.66	47.00	813.42	27.39	22,278.24
2007	108,136.78	47.00	2,300.79	28.25	64,992.98
2008	36,626.07	47.00	779.28	29.12	22,691.91
2009	58,578.27	47.00	1,246.35	30.00	37,387.89
2010	27,379.68	47.00	582.55	30.89	17,992.41
2011	70,751.01	47.00	1,505.34	31.78	47,843.07
2012	1,688,590.86	47.00	35,927.56	32.69	1,174,359.18
2014	375,617.55	47.00	7,991.88	34.52	275,878.34
2016	56,782.00	47.00	1,208.13	36.38	43,955.04
2018	20,409.09	47.00	434.24	38.27	16,618.45
2019	134,069.68	47.00	2,852.55	39.22	111,885.57
2020	45,544.78	47.00	969.04	40.18	38,936.70
2021	265,980.49	47.00	5,659.17	41.14	232,836.71
2022	121,919.62	47.00	2,594.04	42.11	109,235.67
2024	87,916.34	47.00	1,870.57	44.06	82,410.80
2025	237,501.24	47.00	5,053.23	45.03	227,571.27
2026	427,300.51	47.00	9,091.52	46.02	418,355.49
2027	386,529.20	47.00	8,224.05	46.75	384,502.48
Total	12,569,796.25	43.87	236,737.86	19.99	4,731,576.70

Composite Average Remaining Life ... 19.99 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
364.00 Flow Measuring Devices

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *15* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1999	176,385.00	15.00	11,758.97	2.76	32,445.36
2012	40,821.83	15.00	2,721.45	5.85	15,914.78
2023	10,799.01	15.00	719.93	11.21	8,073.35
2024	9,612.38	15.00	640.82	12.10	7,755.47
Total	237,618.22	15.00	15,841.17	4.05	64,188.97

Composite Average Remaining Life ... 4.05 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
371.00 Pumping Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *30* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1964	118,173.93	0.00	0.00	0.00	0.00
1969	1,754.87	30.00	58.50	0.78	45.47
1972	58,725.07	30.00	1,957.50	1.77	3,472.35
1981	860,898.94	30.00	28,696.57	4.79	137,333.07
1999	881,057.60	30.00	29,368.53	11.65	342,079.90
2004	17,144.53	30.00	571.48	13.98	7,986.94
2005	38,391.90	30.00	1,279.73	14.47	18,523.74
2009	133,979.66	30.00	4,465.98	16.60	74,132.25
2010	162,163.22	30.00	5,405.43	17.17	92,790.57
2011	462,765.23	30.00	15,425.48	17.75	273,801.14
2013	2,854,233.76	30.00	95,140.93	18.97	1,804,500.90
2015	52,281.72	30.00	1,742.72	20.26	35,304.47
2016	281,465.33	30.00	9,382.16	20.93	196,399.25
2018	300,246.29	30.00	10,008.19	22.35	223,678.72
2019	49,088.57	30.00	1,636.28	23.09	37,783.70
2023	20,899.72	30.00	696.66	26.31	18,331.37
2024	309,674.06	30.00	10,322.45	27.19	280,635.17
2025	5,474.48	30.00	182.48	28.09	5,125.93
2026	126,874.44	30.00	4,229.14	29.03	122,759.11
2027	435,079.61	30.00	14,502.62	29.75	431,481.29
Total	7,170,372.93	28.50	235,072.81	17.47	4,106,165.35

Composite Average Remaining Life ... 17.47 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
380.00 Treatment Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1966	206,795.47	35.00	5,908.44	2.35	13,901.23
1982	7,592,289.85	35.00	216,922.55	6.61	1,434,399.80
1991	230,693.77	35.00	6,591.25	9.67	63,718.11
1992	46,687.40	35.00	1,333.93	10.06	13,416.29
1993	2,226,563.12	35.00	63,616.08	10.46	665,477.46
1998	540,756.62	35.00	15,450.19	12.68	195,971.14
2000	558,692.80	35.00	15,962.65	13.68	218,422.60
2011	913,894.41	35.00	26,111.27	20.58	537,298.20
2014	3,859,624.94	35.00	110,274.99	22.92	2,527,453.54
2016	33,510.57	35.00	957.44	24.59	23,544.84
2018	20,087.37	35.00	573.92	26.35	15,120.14
2019	7,239,260.68	35.00	206,836.01	27.25	5,636,615.83
2020	211,980.56	35.00	6,056.59	28.18	170,648.05
2021	198,366.45	35.00	5,667.61	29.12	165,017.04
2022	350,456.35	35.00	10,013.04	30.07	301,098.51
2023	29,619.50	35.00	846.27	31.04	26,267.00
2024	621,436.16	35.00	17,755.32	32.02	568,472.53
2025	240,357.95	35.00	6,867.37	33.01	226,661.12
2026	327,419.04	35.00	9,354.83	34.00	318,071.53
2027	1,122,162.30	35.00	32,061.78	34.75	1,114,145.92
Total	26,570,655.31	35.00	759,161.53	18.75	14,235,720.89

Composite Average Remaining Life ... 18.75 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
382.00 Outfall Sewer Lines

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1965	73,525.14	50.00	1,470.50	5.70	8,380.18
Total	73,525.14	50.00	1,470.50	5.70	8,380.18

Composite Average Remaining Life ... 5.70 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
389.10 Other Plant - Intangibles
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2026	445,666.70	20.00	22,283.34	19.00	423,384.39
2027	3,645,333.00	20.00	182,266.66	19.75	3,599,766.44
Total	4,090,999.70	20.00	204,550.00	19.67	4,023,150.84

Composite Average Remaining Life ... 19.67 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
391.00 Transportation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *14* ***Survivor Curve:*** *L4*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2011	119,487.15	14.00	8,534.60	2.49	21,257.63
2014	13,147.84	14.00	939.11	2.99	2,810.71
2017	21,007.05	14.00	1,500.47	4.58	6,877.88
2018	31,168.11	14.00	2,226.24	5.36	11,935.16
2019	27,488.89	14.00	1,963.45	6.20	12,169.92
2020	28,863.43	14.00	2,061.63	7.09	14,615.77
2022	75,954.78	14.00	5,425.22	9.01	48,857.18
2023	68,311.66	14.00	4,879.29	10.00	48,795.43
2024	189,347.17	14.00	13,524.49	11.00	148,773.70
2025	99,173.31	14.00	7,083.65	12.00	85,006.02
Total	673,949.39	14.00	48,138.15	8.33	401,099.38

Composite Average Remaining Life ... 8.33 Years

PAWC - Butler Area Sewer Authority (BASA)
Wastewater Division (BASA)
395.00 Power Operated Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *22* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1993	18,154.62	22.00	825.20	1.91	1,573.08
1997	39,291.32	22.00	1,785.94	3.07	5,483.59
2000	14,790.15	22.00	672.27	4.04	2,718.71
2001	2,322.53	22.00	105.57	4.40	465.00
2004	4,697.67	22.00	213.53	5.63	1,202.43
2011	22,500.91	22.00	1,022.75	9.42	9,636.26
2012	17,502.58	22.00	795.56	10.07	8,007.97
2015	35,730.49	22.00	1,624.08	12.13	19,700.82
2018	25,218.04	22.00	1,146.25	14.38	16,481.37
2019	7,634.66	22.00	347.02	15.16	5,262.43
2021	452,466.57	22.00	20,566.29	16.79	345,230.07
2023	11,478.29	22.00	521.73	18.47	9,636.39
Total	651,787.83	22.00	29,626.19	14.36	425,398.11

Composite Average Remaining Life ... 14.36 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.20 Structures - Collection

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *45* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2017	972,601.79	45.00	21,613.36	35.33	763,693.44
2018	1,915,914.38	45.00	42,575.85	36.28	1,544,593.91
2019	1,205,294.73	45.00	26,784.31	37.23	997,151.96
2020	173,082.00	45.00	3,846.26	38.18	146,869.04
2021	221,294.70	45.00	4,917.66	39.15	192,510.00
2022	2,199,493.71	45.00	48,877.61	40.11	1,960,610.46
2023	7,934,327.84	45.00	176,318.31	41.08	7,243,669.17
2024	29,574,402.01	45.00	657,208.62	42.06	27,640,279.36
2025	1,427,124.06	45.00	31,713.85	43.04	1,364,812.59
2026	545,091.52	45.00	12,113.14	44.02	533,174.50
2027	6,133,866.63	45.00	136,308.08	44.75	6,100,278.73
Total	52,302,493.37	45.00	1,162,277.08	41.72	48,487,643.15

Composite Average Remaining Life ... 41.72 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.30 Structures - SPP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 55 **Survivor Curve:** S0

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1960	2,307,540.06	55.00	41,955.24	16.68	699,674.10
1968	671,326.79	55.00	12,205.93	20.10	245,345.77
1970	60,405.27	55.00	1,098.28	20.98	23,041.35
1972	430,021.03	55.00	7,818.56	21.87	170,980.70
1990	89,924.53	55.00	1,634.99	30.43	49,758.66
1995	131,932.60	55.00	2,398.77	33.04	79,266.25
1996	344,568.73	55.00	6,264.88	33.58	210,389.25
2000	105,072.37	55.00	1,910.41	35.79	68,376.58
2004	244,354.55	55.00	4,442.81	38.11	169,297.77
2005	52,725.90	55.00	958.65	38.70	37,103.31
2006	2,611,533.23	55.00	47,482.39	39.31	1,866,495.56
2011	7,145.91	55.00	129.93	42.47	5,518.10
2012	7,147.63	55.00	129.96	43.13	5,605.58
2013	148,319.26	55.00	2,696.71	43.81	118,138.62
2014	10,489,746.72	55.00	190,722.54	44.49	8,485,772.44
2015	40,952.90	55.00	744.60	45.19	33,649.96
2017	762,725.81	55.00	13,867.73	46.63	646,676.82
2018	1,526,953.41	55.00	27,762.77	47.37	1,315,227.37
2019	446,541.64	55.00	8,118.93	48.13	390,758.12
2020	2,544,665.64	55.00	46,266.62	48.91	2,262,705.44
2021	237,091.40	55.00	4,310.75	49.70	214,249.30
2023	2,377,007.71	55.00	43,218.29	51.36	2,219,487.18
2024	193,229.75	55.00	3,513.27	52.22	183,457.07
2025	11,393.77	55.00	207.16	53.11	11,001.39

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.30 Structures - SPP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	25,842,326.61	55.00	469,860.16	41.53	19,511,976.70

Composite Average Remaining Life ... 41.53 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1960	10,599,624.45	55.00	192,720.31	16.68	3,213,934.53
1972	12,693,053.48	55.00	230,782.63	21.87	5,046,886.27
1975	17,981,926.22	55.00	326,943.89	23.22	7,592,398.35
1985	1,204,742.75	55.00	21,904.40	27.94	611,945.81
1993	12,736.38	55.00	231.57	31.98	7,406.74
1994	101,865.06	55.00	1,852.09	32.51	60,215.30
1995	8,797,962.75	55.00	159,962.85	33.04	5,285,892.60
1996	2,958,647.48	55.00	53,793.55	33.58	1,806,512.22
1999	75,887.27	55.00	1,379.77	35.23	48,609.01
2001	236,542.84	55.00	4,300.78	36.36	156,376.06
2003	1,461,646.93	55.00	26,575.38	37.52	997,005.03
2004	367,499.67	55.00	6,681.81	38.11	254,617.21
2006	131,140.18	55.00	2,384.37	39.31	93,727.53
2007	18,890.83	55.00	343.47	39.92	13,712.39
2008	402,043.27	55.00	7,309.87	40.54	296,373.88
2009	16,621.70	55.00	302.21	41.18	12,444.15
2010	12,094,530.43	55.00	219,900.40	41.82	9,196,009.41
2011	393,025.03	55.00	7,145.90	42.47	303,495.63
2012	282,267.24	55.00	5,132.13	43.13	221,370.29
2013	8,325.00	55.00	151.36	43.81	6,630.99
2014	16,814,574.82	55.00	305,719.33	44.49	13,602,297.50
2015	5,371,118.78	55.00	97,656.64	45.19	4,413,312.31
2016	19,818,007.39	55.00	360,327.16	45.90	16,540,767.33
2017	3,090,389.28	55.00	56,188.86	46.63	2,620,185.50
2018	101,683.42	55.00	1,848.79	47.37	87,584.08
2019	265,878.40	55.00	4,834.15	48.13	232,663.95
2020	1,060,026.32	55.00	19,273.19	48.91	942,570.72

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2021	16,913,734.53	55.00	307,522.23	49.70	15,284,214.18
2022	975,108.52	55.00	17,729.23	50.52	895,627.85
2023	37,310.78	55.00	678.38	51.36	34,838.25
2024	30,884.14	55.00	561.53	52.22	29,322.16
2025	2,525,732.72	55.00	45,922.38	53.11	2,438,751.22
Total	136,843,428.06	55.00	2,488,060.60	37.12	92,347,698.46

Composite Average Remaining Life ... 37.12 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
354.70 Structures - General

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2025	459,529.97	35.00	13,129.43	33.01	433,414.36
2026	352,962.98	35.00	10,084.65	34.00	342,894.03
2027	104,035.07	35.00	2,972.43	34.75	103,291.78
Total	916,528.02	35.00	26,186.51	33.59	879,600.16

Composite Average Remaining Life ... 33.59 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
355.00 Power Generation Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1991	21,067.56	35.00	601.93	12.16	7,318.89
2002	19,740.16	35.00	564.00	17.23	9,715.08
2004	38,295.54	35.00	1,094.16	18.27	19,991.35
2012	403,177.35	35.00	11,519.32	22.98	264,683.23
2015	426,122.43	35.00	12,174.89	25.00	304,381.88
2020	22,037.01	35.00	629.63	28.76	18,106.80
2021	1,986.71	35.00	56.76	29.57	1,678.72
2024	2,289,043.09	35.00	65,401.05	32.16	2,103,584.36
2025	911,327.11	35.00	26,037.85	33.08	861,326.11
Total	4,132,796.96	35.00	118,079.59	30.41	3,590,786.43

Composite Average Remaining Life ... 30.41 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
360.10 Collection Sewers - Force Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 75 *Survivor Curve:* R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1955	1,191.47	75.00	15.89	16.60	263.68
1960	13,291.92	75.00	177.23	19.29	3,419.48
1972	208,072.45	75.00	2,774.30	26.93	74,704.94
1989	4,454.74	75.00	59.40	39.93	2,371.63
1995	327,404.62	75.00	4,365.39	45.00	196,458.24
1996	177,457.94	75.00	2,366.11	45.87	108,539.16
2004	31,805.29	75.00	424.07	53.01	22,481.00
2015	1,165,297.23	75.00	15,537.30	63.32	983,861.79
2018	135,436.89	75.00	1,805.83	66.21	119,562.46
2019	37,024.01	75.00	493.65	67.18	33,162.05
2020	830,893.31	75.00	11,078.58	68.15	754,979.86
2021	670,499.54	75.00	8,939.99	69.12	617,935.44
2022	4,420,536.46	75.00	58,940.48	70.10	4,131,438.73
2023	6,479,187.10	75.00	86,389.16	71.07	6,139,914.57
2024	2,965,353.45	75.00	39,538.04	72.05	2,848,786.17
2025	379,554.66	75.00	5,060.73	73.03	369,597.98
2026	1,188,459.19	75.00	15,846.12	74.02	1,172,862.11
2027	518,868.79	75.00	6,918.25	74.75	517,165.96
Total	19,554,789.06	75.00	260,730.51	69.41	18,097,505.26

Composite Average Remaining Life ... *69.41 Years*

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 **Survivor Curve:** R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1938	825,939.70	80.00	10,324.24	15.42	159,233.11
1945	208,322.99	80.00	2,604.04	18.22	47,447.71
1950	839,356.16	80.00	10,491.94	20.54	215,533.36
1955	16,851,991.21	80.00	210,649.74	23.13	4,873,054.75
1959	55,755,068.44	80.00	696,937.87	25.39	17,695,771.57
1960	1,038,138.94	80.00	12,976.73	25.98	337,110.96
1962	11,464,036.84	80.00	143,300.36	27.19	3,895,642.31
1963	26,973,423.12	80.00	337,167.55	27.80	9,373,397.01
1965	635,349.49	80.00	7,941.86	29.06	230,786.30
1968	1,798,905.81	80.00	22,486.31	31.01	697,230.92
1970	748,681.40	80.00	9,358.51	32.35	302,729.97
1972	15,248,381.91	80.00	190,604.64	33.72	6,426,375.06
1973	515,509.77	80.00	6,443.87	34.41	221,754.59
1974	455,544.76	80.00	5,694.31	35.12	199,959.74
1975	2,125,289.48	80.00	26,566.10	35.82	951,724.24
1976	35,350,307.82	80.00	441,878.54	36.54	16,146,350.08
1977	313,000.07	80.00	3,912.50	37.26	145,787.95
1978	816,395.75	80.00	10,204.94	37.99	387,736.19
1979	861,785.88	80.00	10,772.32	38.73	417,218.91
1980	1,403,439.82	80.00	17,542.99	39.47	692,464.09
1981	661,886.81	80.00	8,273.58	40.22	332,789.14
1982	494,383.67	80.00	6,179.79	40.98	253,236.14
1983	364,174.95	80.00	4,552.18	41.74	190,002.92
1984	634,582.96	80.00	7,932.28	42.51	337,163.94
1985	1,567,321.00	80.00	19,591.50	43.28	847,868.49
1986	737,928.90	80.00	9,224.10	44.06	406,406.23
1987	684,873.87	80.00	8,560.92	44.84	383,901.75

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *80* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1988	274,612.91	80.00	3,432.66	45.63	156,643.56
1989	24,381,794.65	80.00	304,772.22	46.43	14,150,878.82
1990	2,834,459.30	80.00	35,430.72	47.23	1,673,483.62
1991	1,098,402.18	80.00	13,730.02	48.04	659,580.27
1992	2,097,860.81	80.00	26,223.24	48.85	1,281,034.20
1993	357,262.91	80.00	4,465.78	49.67	221,806.31
1994	939,863.43	80.00	11,748.28	50.49	593,210.17
1995	2,272,077.79	80.00	28,400.95	51.32	1,457,569.20
1996	3,451,854.02	80.00	43,148.15	52.15	2,250,335.72
1997	220,044.95	80.00	2,750.56	52.99	145,761.10
1998	1,432,237.31	80.00	17,902.95	53.84	963,827.66
1999	9,393,536.06	80.00	117,419.12	54.68	6,420,918.96
2000	300,449.00	80.00	3,755.61	55.54	208,570.67
2001	542,649.97	80.00	6,783.12	56.39	382,514.84
2002	156,677.14	80.00	1,958.46	57.26	112,133.56
2003	19,490.30	80.00	243.63	58.12	14,160.12
2004	1,781,965.59	80.00	22,274.55	58.99	1,314,015.45
2005	1,335,097.27	80.00	16,688.70	59.87	999,083.34
2006	1,122,320.76	80.00	14,029.00	60.75	852,213.94
2007	4,876,455.26	80.00	60,955.65	61.63	3,756,656.17
2008	2,337,030.94	80.00	29,212.87	62.52	1,826,267.41
2009	9,124,059.18	80.00	114,050.66	63.41	7,231,504.23
2010	3,731,837.66	80.00	46,647.94	64.30	2,999,571.84
2011	3,658,545.89	80.00	45,731.79	65.20	2,981,732.84
2012	259,369.26	80.00	3,242.11	66.10	214,310.04
2013	435,919.39	80.00	5,448.99	67.01	365,127.37
2014	1,120,473.58	80.00	14,005.91	67.92	951,240.25

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.10 Collection Sewers - Gravity Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *80* ***Survivor Curve:*** *R2.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2015	14,591.43	80.00	182.39	68.83	12,553.91
2016	12,834,211.43	80.00	160,427.53	69.74	11,188,852.48
2017	6,864,381.73	80.00	85,804.71	70.66	6,063,126.86
2018	3,789,060.56	80.00	47,363.22	71.58	3,390,482.46
2019	37,882,069.61	80.00	473,525.54	72.51	34,334,840.20
2020	26,267,171.13	80.00	328,339.41	73.44	24,111,902.31
2021	11,222,265.87	80.00	140,278.23	74.37	10,432,021.60
2022	11,290,171.84	80.00	141,127.05	75.30	10,626,772.45
2023	44,262,900.97	80.00	553,285.88	76.23	42,179,454.66
2024	15,007,880.83	80.00	187,598.38	77.17	14,477,341.69
2025	4,397,201.76	80.00	54,964.98	78.11	4,293,416.64
2026	8,030,985.13	80.00	100,387.24	79.06	7,936,151.34
2027	6,327,410.01	80.00	79,092.57	79.76	6,308,726.24
Total	447,120,671.33	80.00	5,589,004.48	52.91	295,708,471.93

Composite Average Remaining Life ... 52.91 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1918	185,921.36	0.00	0.00	0.00	0.00
1938	258,467.85	50.00	5,169.36	2.07	10,708.86
1945	40,147.57	50.00	802.95	3.49	2,805.97
1950	90,903.16	50.00	1,818.06	4.60	8,366.93
1955	82,223.20	50.00	1,644.46	5.80	9,536.63
1959	10,441,422.84	50.00	208,828.47	6.83	1,426,892.69
1960	123,956.30	50.00	2,479.13	7.10	17,609.62
1963	1,805,106.84	50.00	36,102.14	7.95	286,855.62
1965	115,202.38	50.00	2,304.05	8.54	19,666.81
1968	61,842.40	50.00	1,236.85	9.47	11,710.70
1970	130,951.58	50.00	2,619.03	10.12	26,515.81
1972	1,401,211.14	50.00	28,024.22	10.81	302,958.42
1973	299,482.74	50.00	5,989.66	11.17	66,879.50
1974	144,666.42	50.00	2,893.33	11.53	33,358.81
1975	427,551.91	50.00	8,551.04	11.90	101,775.35
1976	1,213,132.08	50.00	24,262.64	12.28	298,037.70
1977	135,315.25	50.00	2,706.31	12.68	34,302.51
1978	364,348.78	50.00	7,286.98	13.08	95,285.60
1979	375,531.97	50.00	7,510.64	13.49	101,300.03
1980	343,905.69	50.00	6,878.11	13.91	95,671.67
1981	303,273.04	50.00	6,065.46	14.34	86,994.98
1982	240,750.96	50.00	4,815.02	14.79	71,200.93
1983	166,919.22	50.00	3,338.38	15.24	50,889.40
1984	192,851.62	50.00	3,857.03	15.71	60,603.63
1985	424,768.26	50.00	8,495.37	16.19	137,574.21
1986	361,882.59	50.00	7,237.65	16.69	120,787.35
1987	250,696.53	50.00	5,013.93	17.20	86,225.06

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 50 **Survivor Curve:** S2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1988	96,295.74	50.00	1,925.91	17.72	34,126.29
1989	1,478,724.10	50.00	29,574.48	18.26	539,925.47
1990	1,028,577.48	50.00	20,571.55	18.81	386,917.04
1991	480,189.05	50.00	9,603.78	19.38	186,079.34
1992	446,361.91	50.00	8,927.24	19.96	178,176.20
1993	106,745.62	50.00	2,134.91	20.56	43,889.54
1994	172,759.47	50.00	3,455.19	21.17	73,159.81
1995	493,337.58	50.00	9,866.75	21.81	215,161.65
1996	766,235.95	50.00	15,324.72	22.46	344,145.24
1997	99,473.55	50.00	1,989.47	23.12	46,005.71
1998	667,320.11	50.00	13,346.40	23.81	317,779.95
1999	377,584.03	50.00	7,551.68	24.51	185,120.25
2001	40,252.14	50.00	805.04	25.98	20,911.57
2004	390,957.17	50.00	7,819.14	28.31	221,326.59
2005	622,574.77	50.00	12,451.50	29.12	362,568.71
2006	485,312.53	50.00	9,706.25	29.95	290,690.82
2007	261,446.37	50.00	5,228.93	30.80	161,031.85
2008	302,628.43	50.00	6,052.57	31.66	191,627.37
2010	100,524.98	50.00	2,010.50	33.44	67,223.39
2011	258,368.35	50.00	5,167.37	34.35	177,478.92
2012	100,201.36	50.00	2,004.03	35.27	70,681.19
2013	16,187.43	50.00	323.75	36.21	11,721.50
2014	101,864.24	50.00	2,037.28	37.15	75,691.24
2016	19,978.62	50.00	399.57	39.08	15,614.29
2019	46,757.32	50.00	935.15	42.02	39,295.09
2020	883,016.83	50.00	17,660.34	43.01	759,595.28
2021	904,383.24	50.00	18,087.67	44.01	795,962.10

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	2,203,269.49	50.00	44,065.39	45.00	1,983,056.64
2023	4,897,473.20	50.00	97,949.47	46.00	4,505,768.79
2024	4,306,744.02	50.00	86,134.89	47.00	4,048,361.87
2025	3,606,835.96	50.00	72,136.72	48.00	3,462,565.23
2026	1,141,490.68	50.00	22,829.82	49.00	1,118,661.00
2027	550,729.56	50.00	11,014.59	49.75	547,975.88
Total	47,437,034.96	49.17	945,022.34	26.50	25,042,810.57

Composite Average Remaining Life ... 26.50 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1938	65,422.34	0.00	0.00	0.00	0.00
1945	15,346.82	0.00	0.00	0.00	0.00
1950	43,290.49	47.00	921.08	0.69	640.06
1955	39,897.91	47.00	848.89	1.81	1,532.44
1960	65,588.71	47.00	1,395.51	3.07	4,289.13
1965	70,351.78	47.00	1,496.85	4.35	6,517.82
1970	98,930.37	47.00	2,104.91	5.73	12,054.04
1972	542,306.93	47.00	11,538.47	6.35	73,226.31
1973	109,892.89	47.00	2,338.15	6.68	15,611.77
1974	131,940.47	47.00	2,807.25	7.02	19,716.26
1975	315,703.80	47.00	6,717.12	7.39	49,615.88
1977	102,264.95	47.00	2,175.86	8.17	17,771.26
1978	270,117.73	47.00	5,747.20	8.59	49,350.26
1979	289,250.19	47.00	6,154.27	9.03	55,548.06
1980	256,466.26	47.00	5,456.74	9.49	51,757.61
1981	226,843.88	47.00	4,826.48	9.96	48,093.04
1982	184,105.20	47.00	3,917.14	10.46	40,988.90
1983	128,922.06	47.00	2,743.03	10.98	30,128.48
1984	153,505.69	47.00	3,266.09	11.53	37,643.99
1985	316,466.36	47.00	6,733.34	12.09	81,374.52
1986	288,510.29	47.00	6,138.53	12.66	77,738.02
1987	200,536.88	47.00	4,266.75	13.26	56,581.86
1988	69,065.67	47.00	1,469.49	13.88	20,390.90
1989	732,574.45	47.00	15,586.73	14.51	226,142.46
1990	817,808.68	47.00	17,400.23	15.16	263,748.89
1991	386,780.91	47.00	8,229.40	15.82	130,213.52
1992	523,744.47	47.00	11,143.53	16.51	183,936.09

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 47 **Survivor Curve:** R3

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1994	65,457.97	47.00	1,392.73	17.91	24,946.26
1995	99,020.17	47.00	2,106.82	18.64	39,261.42
1996	262,390.86	47.00	5,582.80	19.37	108,150.96
1997	86,194.50	47.00	1,833.93	20.12	36,901.71
1998	567,703.59	47.00	12,078.83	20.88	252,247.86
1999	163,826.94	47.00	3,485.69	21.66	75,490.43
2000	11,979.04	47.00	254.87	22.44	5,720.57
2004	187,119.19	47.00	3,981.27	25.70	102,312.76
2005	499,348.60	47.00	10,624.47	26.54	281,956.30
2006	403,919.76	47.00	8,594.06	27.39	235,377.13
2007	227,748.69	47.00	4,845.73	28.25	136,882.80
2008	64,673.93	47.00	1,376.04	29.12	40,069.14
2009	79,263.57	47.00	1,686.46	30.00	50,590.39
2011	170,421.88	47.00	3,626.01	31.78	115,242.24
2012	79,694.42	47.00	1,695.63	32.69	55,424.84
2013	16,050.07	47.00	341.49	33.60	11,473.97
2014	58,313.06	47.00	1,240.71	34.52	42,828.96
2016	134,187.32	47.00	2,855.06	36.38	103,874.62
2017	192,096.30	47.00	4,087.17	37.32	152,547.57
2018	201,800.93	47.00	4,293.65	38.27	164,319.81
2019	302,100.56	47.00	6,427.69	39.22	252,112.88
2020	1,409,569.21	47.00	29,990.91	40.18	1,205,055.05
2021	1,064,780.85	47.00	22,654.97	41.14	932,098.70
2022	1,077,000.75	47.00	22,914.97	42.11	964,954.62
2023	1,318,681.49	47.00	28,057.12	43.08	1,208,737.60
2024	2,093,627.94	47.00	44,545.39	44.06	1,962,519.72
2025	2,591,130.71	47.00	55,130.58	45.03	2,482,795.08

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *47* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2026	1,518,893.18	47.00	32,316.96	46.02	1,487,096.97
2027	486,273.71	47.00	10,346.28	46.75	483,723.99
Total	21,878,905.37	45.32	463,791.30	31.41	14,569,325.95

Composite Average Remaining Life ... 31.41 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
364.00 Flow Measuring Devices

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *15* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1960	34,668.83	0.00	0.00	0.00	0.00
1996	10,667.26	15.00	711.15	2.16	1,534.94
1998	11,518.92	15.00	767.93	2.55	1,960.05
2008	91,182.72	15.00	6,078.83	4.87	29,626.54
2010	110,716.42	15.00	7,381.08	5.37	39,618.62
2011	38,771.91	15.00	2,584.79	5.61	14,498.76
2013	175,978.36	15.00	11,731.86	6.09	71,443.98
2015	40,642.36	15.00	2,709.48	6.62	17,932.68
2016	442,654.44	15.00	29,510.22	6.93	204,522.36
2017	160,544.63	15.00	10,702.95	7.29	78,075.76
2018	43,907.33	15.00	2,927.15	7.73	22,624.01
2019	859,930.78	15.00	57,328.57	8.25	472,884.72
2020	72,459.17	15.00	4,830.60	8.86	42,818.35
2022	98,651.86	15.00	6,576.77	10.37	68,204.15
2023	407,174.77	15.00	27,144.92	11.21	304,404.39
2024	8,460.60	15.00	564.04	12.10	6,826.19
Total	2,607,930.36	14.06	171,550.33	8.03	1,376,975.51

Composite Average Remaining Life ... 8.03 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
371.00 Pumping Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 30 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1991	7,318.26	30.00	243.94	8.37	2,042.50
1996	849,858.23	30.00	28,328.55	10.36	293,590.00
1997	12,136.89	30.00	404.56	10.78	4,362.59
2001	71,321.36	30.00	2,377.37	12.55	29,831.85
2002	52,375.69	30.00	1,745.85	13.01	22,719.74
2004	387,121.69	30.00	12,904.03	13.98	180,344.23
2005	8,622.80	30.00	287.43	14.47	4,160.42
2006	396,409.93	30.00	13,213.64	14.99	198,014.16
2007	12,799.00	30.00	426.63	15.51	6,616.76
2008	17,663.53	30.00	588.78	16.05	9,448.45
2009	459,112.36	30.00	15,303.71	16.60	254,031.35
2010	695,226.30	30.00	23,174.16	17.17	397,811.83
2011	127,476.06	30.00	4,249.19	17.75	75,422.89
2012	1,560,672.76	30.00	52,022.32	18.35	954,588.78
2013	410,667.59	30.00	13,688.89	18.97	259,631.87
2014	92,093.87	30.00	3,069.79	19.60	60,177.81
2015	3,916,107.31	30.00	130,536.64	20.26	2,644,443.97
2016	1,194,458.46	30.00	39,815.20	20.93	833,462.33
2017	84,678.45	30.00	2,822.61	21.63	61,055.48
2018	1,325,718.35	30.00	44,190.52	22.35	987,639.13
2019	442,517.94	30.00	14,750.57	23.09	340,608.09
2020	1,324,689.58	30.00	44,156.23	23.86	1,053,501.11
2021	319,307.07	30.00	10,643.55	24.65	262,361.58
2022	637,945.90	30.00	21,264.82	25.47	541,553.87
2023	2,433,739.52	30.00	81,124.48	26.31	2,134,659.35
2024	621,994.88	30.00	20,733.12	27.19	563,668.91
2025	1,133,397.16	30.00	37,779.83	28.09	1,061,235.68

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
371.00 Pumping Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 30 **Survivor Curve:** S0.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2026	2,119,158.30	30.00	70,638.46	29.03	2,050,420.81
2027	108,651.33	30.00	3,621.70	29.75	107,752.73
Total	20,823,240.57	30.00	694,106.57	22.18	15,395,158.27

Composite Average Remaining Life ... 22.18 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
380.00 Treatment Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1960	250,341.81	35.00	7,152.62	0.87	6,211.80
1968	458,956.34	35.00	13,113.04	2.86	37,505.56
1975	14,679,146.57	35.00	419,404.16	4.65	1,948,566.95
1987	1,450,633.98	35.00	41,446.68	8.22	340,508.93
1988	436,738.77	35.00	12,478.25	8.56	106,849.66
1990	25,745.28	35.00	735.58	9.29	6,832.23
1994	137,703.35	35.00	3,934.38	10.88	42,794.02
1995	5,066,097.50	35.00	144,745.63	11.31	1,636,592.38
1996	34,920.92	35.00	997.74	11.75	11,723.64
1997	1,932.75	35.00	55.22	12.21	674.21
1999	1,055,755.01	35.00	30,164.43	13.18	397,422.17
2001	1,627,983.77	35.00	46,513.82	14.21	660,925.07
2002	196,538.65	35.00	5,615.39	14.75	82,846.45
2003	90,647.27	35.00	2,589.92	15.32	39,666.06
2004	3,921,895.65	35.00	112,054.15	15.90	1,781,540.66
2006	11,472.64	35.00	327.79	17.13	5,614.11
2007	293,504.28	35.00	8,385.84	17.77	149,042.24
2008	1,123,332.97	35.00	32,095.23	18.44	591,862.71
2009	55,219.41	35.00	1,577.70	19.13	30,182.55
2010	24,154.94	35.00	690.14	19.84	13,693.54
2012	120,437.01	35.00	3,441.06	21.34	73,416.73
2013	49,169.19	35.00	1,404.83	22.12	31,069.81
2014	29,045.70	35.00	829.88	22.92	19,020.41
2015	11,554,196.36	35.00	330,119.87	23.74	7,838,606.24
2016	4,101,315.91	35.00	117,180.45	24.59	2,881,623.51
2017	2,375,362.17	35.00	67,867.49	25.46	1,727,732.58
2018	1,074,974.69	35.00	30,713.56	26.35	809,153.52

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
380.00 Treatment Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 35 **Survivor Curve:** S1.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2019	167,323.13	35.00	4,780.66	27.25	130,280.74
2020	9,818,958.41	35.00	280,541.65	28.18	7,904,432.75
2021	2,378,394.30	35.00	67,954.12	29.12	1,978,538.16
2022	15,607,283.23	35.00	445,922.35	30.07	13,409,172.67
2023	3,972,794.39	35.00	113,508.40	31.04	3,523,131.02
2024	841,157.55	35.00	24,033.07	32.02	769,467.55
2025	2,761,630.52	35.00	78,903.72	33.01	2,604,258.63
2026	994,230.92	35.00	28,406.60	34.00	965,846.56
2027	16,218,640.81	35.00	463,389.71	34.75	16,102,779.90
Total	103,007,636.15	35.00	2,943,075.12	23.33	68,659,585.74

Composite Average Remaining Life ... 23.33 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
381.00 Plant Sewers

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1995	874,635.54	50.00	17,492.70	21.34	373,335.65
1999	17,293.00	50.00	345.86	24.45	8,457.11
2002	27,056.54	50.00	541.13	26.90	14,554.47
2003	603,123.96	50.00	12,062.47	27.73	334,505.36
2004	48,787.57	50.00	975.75	28.58	27,882.44
2016	5,448.80	50.00	108.98	39.36	4,289.82
Total	1,576,345.41	50.00	31,526.89	24.20	763,024.85

Composite Average Remaining Life ... 24.20 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
382.00 Outfall Sewer Lines

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2017	8,904.30	50.00	178.09	40.31	7,178.57
2018	137,919.26	50.00	2,758.38	41.26	113,810.40
2023	304,148.54	50.00	6,082.97	46.08	280,304.76
2026	1,573,432.21	50.00	31,468.63	49.02	1,542,466.99
Total	2,024,404.31	50.00	40,488.07	48.01	1,943,760.72

Composite Average Remaining Life ... 48.01 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
389.10 Other Plant - Intangibles

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2003	732.57	20.00	36.63	3.67	134.55
2013	4,140,223.53	20.00	207,011.19	7.99	1,653,413.02
2019	2,529.74	20.00	126.49	12.32	1,558.24
2020	6,201,677.71	20.00	310,083.91	13.20	4,091,612.47
2022	430,060.25	20.00	21,503.01	15.05	323,673.09
2024	38,327.02	20.00	1,916.35	17.01	32,589.79
Total	10,813,550.82	20.00	540,677.58	11.29	6,102,981.16

Composite Average Remaining Life ... 11.29 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
391.00 Transportation Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 14 **Survivor Curve:** L4

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1995	13,240.08	0.00	0.00	0.00	0.00
2003	25,581.36	14.00	1,827.20	1.03	1,877.49
2004	6,788.48	14.00	484.88	1.17	566.94
2006	99,532.58	14.00	7,109.31	1.49	10,588.54
2007	154,794.96	14.00	11,056.53	1.67	18,483.45
2008	150,540.49	14.00	10,752.65	1.87	20,117.17
2009	220,230.56	14.00	15,730.40	2.09	32,798.56
2010	253,581.52	14.00	18,112.56	2.30	41,650.98
2011	91,691.79	14.00	6,549.27	2.49	16,312.63
2012	283,568.72	14.00	20,254.45	2.64	53,461.44
2013	590,227.54	14.00	42,158.15	2.78	117,249.73
2014	555,945.44	14.00	39,709.49	2.99	118,848.67
2015	697,815.92	14.00	49,842.86	3.35	167,021.71
2016	185,576.14	14.00	13,255.14	3.89	51,608.19
2017	174,855.63	14.00	12,489.40	4.58	57,249.12
2018	1,449,339.70	14.00	103,521.92	5.36	554,993.67
2019	840,388.91	14.00	60,026.42	6.20	372,058.04
2021	89,577.43	14.00	6,398.24	8.03	51,374.42
2022	869,888.42	14.00	62,133.48	9.01	559,547.30
2023	2,612,625.59	14.00	186,611.88	10.00	1,866,214.07
2024	815,335.23	14.00	58,236.91	11.00	640,624.50
2025	244,677.74	14.00	17,476.59	12.00	209,724.57
2026	347,528.00	14.00	24,822.87	13.00	322,705.13
2027	101,664.00	14.00	7,261.55	13.75	99,848.61

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
391.00 Transportation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *14* ***Survivor Curve:*** *L4*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
Total	10,874,996.23	13.42	775,822.13	6.94	5,384,924.94

Composite Average Remaining Life ... 6.94 Years

PAWC - Wastewater Combined (CSS)
Wastewater Division (CSS)
395.00 Power Operated Equipment
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 22 **Survivor Curve:** R2

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
2007	13,810.00	22.00	627.72	7.10	4,454.65
2008	48,270.00	22.00	2,194.05	7.64	16,761.09
2009	246,063.00	22.00	11,184.48	8.21	91,800.74
2010	440,226.19	22.00	20,009.92	8.80	176,143.97
2011	45,902.54	22.00	2,086.44	9.42	19,658.27
2012	282,853.13	22.00	12,856.73	10.07	129,414.02
2013	157,521.76	22.00	7,159.95	10.73	76,840.17
2014	2,683.87	22.00	121.99	11.42	1,393.28
2015	7,815.84	22.00	355.26	12.13	4,309.44
2016	15,995.00	22.00	727.03	12.86	9,350.38
2017	29,847.33	22.00	1,356.67	13.61	18,465.22
2018	44,891.21	22.00	2,040.47	14.38	29,338.87
2020	9,692.97	22.00	440.58	15.97	7,034.75
2021	563,825.38	22.00	25,627.96	16.79	430,196.37
2023	271,216.17	22.00	12,327.79	18.47	227,694.54
2024	129,069.73	22.00	5,866.70	19.33	113,421.57
Total	2,309,684.12	22.00	104,983.75	12.92	1,356,277.33

Composite Average Remaining Life ... 12.92 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
354.20 Structures - Collection

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *45* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1998	178,333.15	45.00	3,962.96	19.06	75,525.96
2015	20,702.74	45.00	460.06	33.46	15,395.81
2026	9,999.50	45.00	222.21	44.02	9,780.89
2027	4,998.76	45.00	111.08	44.75	4,971.39
Total	214,034.15	45.00	4,756.31	22.22	105,674.04

Composite Average Remaining Life ... 22.22 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
354.30 Structures - SPP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	6,131,131.15	55.00	111,475.03	50.52	5,631,385.34
Total	6,131,131.15	55.00	111,475.03	50.52	5,631,385.34

Composite Average Remaining Life ... 50.52 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
354.40 Structures - TDP

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *55* ***Survivor Curve:*** *S0*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1959	166,934.69	55.00	3,035.17	16.26	49,346.78
1972	189,956.32	55.00	3,453.75	21.87	75,528.55
1992	711,430.30	55.00	12,935.09	31.46	406,971.23
2015	420,063.69	55.00	7,637.52	45.19	345,155.70
2016	12,643.06	55.00	229.87	45.90	10,552.32
2017	6,064.56	55.00	110.26	46.63	5,141.84
2019	23,691.33	55.00	430.75	48.13	20,731.73
2020	30,932.25	55.00	562.40	48.91	27,504.82
Total	1,561,716.20	55.00	28,394.82	33.14	940,932.97

Composite Average Remaining Life ... 33.14 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
354.70 Structures - General

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1992	41,410.75	35.00	1,183.16	11.24	13,299.27
2026	6,000.00	35.00	171.43	34.00	5,828.84
2027	2,999.99	35.00	85.71	34.75	2,978.56
Total	50,410.74	35.00	1,440.31	15.35	22,106.66

Composite Average Remaining Life ... 15.35 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
355.00 Power Generation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	126,050.56	35.00	3,601.43	30.41	109,532.90
Total	126,050.56	35.00	3,601.43	30.41	109,532.90

Composite Average Remaining Life ... 30.41 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
360.10 Collection Sewers - Force Mains

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *75* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	285,386.05	75.00	3,805.15	70.10	266,722.15
2026	7,499.32	75.00	99.99	74.02	7,400.90
2027	4,496.82	75.00	59.96	74.75	4,482.06
Total	297,382.19	75.00	3,965.10	70.26	278,605.11

Composite Average Remaining Life ... 70.26 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
361.10 Collection Sewers - Gravity Mains
Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: 80 *Survivor Curve:* R2.5

Year	Original Cost	Avg. Service Life	Avg. Annual Accrual	Avg. Remaining Life	Future Annual Accruals
(1)	(2)	(3)	(4)	(5)	(6)
1950	1,371,020.17	80.00	17,137.74	20.54	352,056.24
1998	5,640,171.69	80.00	70,502.10	53.84	3,795,567.58
2015	2,275,094.72	80.00	28,438.66	68.83	1,957,404.36
2016	1,187,017.60	80.00	14,837.71	69.74	1,034,840.74
2017	225,231.53	80.00	2,815.39	70.66	198,941.05
2018	652,718.40	80.00	8,158.97	71.58	584,057.78
2019	126,081.34	80.00	1,576.02	72.51	114,275.24
2020	230,223.57	80.00	2,877.79	73.44	211,333.31
2022	113,781.48	80.00	1,422.27	75.30	107,095.79
2023	407,158.85	80.00	5,089.48	76.23	387,993.96
2026	52,500.00	80.00	656.25	79.06	51,880.05
2027	30,492.00	80.00	381.15	79.76	30,401.96
Total	12,311,491.35	80.00	153,893.53	57.35	8,825,848.07

Composite Average Remaining Life ... 57.35 *Years*

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
361.20 Manholes

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1950	208,347.61	50.00	4,166.95	4.60	19,176.78
1998	21,535.87	50.00	430.72	23.81	10,255.45
2014	175,888.74	50.00	3,517.78	37.15	130,695.89
2026	38,400.00	50.00	768.00	49.00	37,632.00
2027	19,200.00	50.00	384.00	49.75	19,104.00
Total	463,372.22	50.00	9,267.45	23.40	216,864.12

Composite Average Remaining Life ... 23.40 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
363.00 Services

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *47* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2026	30,000.00	47.00	638.30	46.02	29,371.99
2027	18,000.00	47.00	382.98	46.75	17,905.62
Total	48,000.00	47.00	1,021.28	46.29	47,277.61

Composite Average Remaining Life ... 46.29 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
364.00 Flow Measuring Devices

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *15* ***Survivor Curve:*** *L2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1992	10,431.53	15.00	695.43	1.42	988.53
1996	7,328.14	15.00	488.54	2.16	1,054.46
2013	182,290.73	15.00	12,152.68	6.09	74,006.68
2014	129,463.37	15.00	8,630.87	6.34	54,746.66
2019	81,758.85	15.00	5,450.58	8.25	44,960.03
2020	46,933.08	15.00	3,128.86	8.86	27,734.20
2022	7,896.07	15.00	526.40	10.37	5,459.04
Total	466,101.77	15.00	31,073.37	6.72	208,949.61

Composite Average Remaining Life ... 6.72 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
370.00 Receiving Wells

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	181,962.65	50.00	3,639.25	45.11	164,159.59
Total	181,962.65	50.00	3,639.25	45.11	164,159.59

Composite Average Remaining Life ... 45.11 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
371.00 Pumping Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *30* ***Survivor Curve:*** *S0.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1972	25,479.06	30.00	849.30	1.77	1,506.55
2017	36,074.88	30.00	1,202.49	21.63	26,010.98
2021	73,141.37	30.00	2,438.04	24.65	60,097.28
2022	1,034,946.79	30.00	34,498.15	25.47	878,568.91
2023	7,782.76	30.00	259.42	26.31	6,826.34
2026	9,499.85	30.00	316.66	29.03	9,191.71
2027	4,749.59	30.00	158.32	29.75	4,710.31
Total	1,191,674.30	30.00	39,722.39	24.85	986,912.08

Composite Average Remaining Life ... *24.85 Years*

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
380.00 Treatment Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *35* ***Survivor Curve:*** *S1.5*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1959	37,258.37	35.00	1,064.52	0.64	686.45
1972	32,889.62	35.00	939.70	3.86	3,630.20
1992	216,221.85	35.00	6,177.77	10.06	62,134.43
2015	244,388.05	35.00	6,982.52	23.74	165,797.92
2016	66,686.46	35.00	1,905.33	24.59	46,854.54
2017	170,628.98	35.00	4,875.11	25.46	124,107.92
2018	18,987.92	35.00	542.51	26.35	14,292.56
2019	34,088.04	35.00	973.94	27.25	26,541.55
2022	802,588.75	35.00	22,931.11	30.07	689,553.14
2026	614,499.99	35.00	17,557.14	34.00	596,956.59
2027	512,248.24	35.00	14,635.66	34.75	508,588.90
Total	2,750,486.27	35.00	78,585.32	28.49	2,239,144.19

Composite Average Remaining Life ... 28.49 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
381.00 Plant Sewers

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1992	257,749.35	50.00	5,154.98	19.13	98,621.33
2004	217,164.26	50.00	4,343.28	28.58	124,110.92
2022	813,969.13	50.00	16,279.37	45.11	734,331.15
Total	1,288,882.74	50.00	25,777.64	37.13	957,063.39

Composite Average Remaining Life ... 37.13 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
382.00 Outfall Sewer Lines

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *50* ***Survivor Curve:*** *R3*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2022	2,828.25	50.00	56.56	45.11	2,551.54
Total	2,828.25	50.00	56.56	45.11	2,551.54

Composite Average Remaining Life ... 45.11 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
389.10 Other Plant - Intangibles

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *20* ***Survivor Curve:*** *S2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
2019	11,607.90	20.00	580.40	12.32	7,150.09
Total	11,607.90	20.00	580.40	12.32	7,150.09

Composite Average Remaining Life ... 12.32 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
391.00 Transportation Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *14* ***Survivor Curve:*** *L4*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1989	5,537.12	0.00	0.00	0.00	0.00
2008	14,834.85	14.00	1,059.61	1.87	1,982.43
2015	16,013.29	14.00	1,143.78	3.35	3,832.77
2022	11,253.85	14.00	803.83	9.01	7,238.93
Total	47,639.11	10.50	3,007.22	4.34	13,054.12

Composite Average Remaining Life ... 4.34 Years

PAWC - Elizabeth Borough Wastewater
Wastewater Operations (EB)
395.00 Power Operated Equipment

Original Cost Of Utility Plant In Service
And Development Of Composite Remaining Life as of June 30, 2027
Based Upon Broad Group/Remaining Life Procedure and Technique

Average Service Life: *22* ***Survivor Curve:*** *R2*

Year	*Original Cost*	*Avg. Service Life*	*Avg. Annual Accrual*	*Avg. Remaining Life*	*Future Annual Accruals*
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*
1990	1,424.51	22.00	64.75	1.07	69.53
Total	1,424.51	22.00	64.75	1.07	69.53

Composite Average Remaining Life ... 1.07 Years

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	:	
	:	
v.	:	Docket Nos. R-2025-3057983 (W)
	:	R-2025-3058051 (WW)
Pennsylvania-American Water Company	:	
	:	

VERIFICATION

I, David J. Garrett, hereby state that the facts above set forth in my Corrected Direct Testimony, OCA Statement No. 2, 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 herein are made subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

DATED: February 2, 2026

Signature: */s/ David J. Garrett*
David J. Garrett

Address: 101 Park Avenue
Suite 1125
Oklahoma City, OK 73120

BEFORE THE

PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	:	
	:	Docket Nos.: R-2025-3057983 (Water)
v.	:	R-2025-3058051 (Wastewater)
	:	
Pennsylvania American Water Company	:	

SUPPLEMENTAL DIRECT TESTIMONY

OF

BARBARA R. ALEXANDER

Barbara Alexander Consulting LLC

ON BEHALF OF THE

THE PENNSYLVANIA OFFICE OF CONSUMER ADVOCATE

February 10, 2026

Q. PLEASE STATE YOUR NAME, ADDRESS AND OCCUPATION.

A. My name is Barbara R. Alexander. I am the sole member of Barbara Alexander Consulting LLC. My address is 44 Beech St., Hallowell, ME 04347. I appear in this case as a witness on behalf of the Pennsylvania Office of Consumer Advocate (OCA).

Q. PLEASE DESCRIBE THE PURPOSE OF YOUR SUPPLEMENTAL DIRECT TESIMONY.

Q. I am filing a supplement to my direct testimony in order to provide updates to Appendix A to my direct testimony. Appendix A (Supplemental) includes a summary of consumer testimony from the public input hearing held in Coatesville, Pennsylvania on January 29, 2026, at 1:00 PM and 6:00 PM. I have attached Appendix A (Supplemental) to this testimony.

Q. DOES THIS COMPLETE YOUR TESTIMONY AT THIS TIME?

A. Yes.

Appendix A (Supplemental)

Coatesville, PA: January 29, 2026, at 1:00 PM (Tr. At 1430-1639) and 6:00 PM (Tr. At 1640-1740)

Summary of Consumer Testimony

Affordability / Consumers' Conservation Efforts to Save Money on Bills / Reject Rate Increase / Frequency of Rate Increases……..…….……1
Impact of Data Centers on Rates……..…….....4
Weather Averaging……...5
Customer Service / Water Quality / Service Disruptions…….….5
Unreasonable Corporate Profits and Expenses ……5

Affordability / Consumers' Conservation Efforts to Save Money on Bills / Reject Rate Increase / Frequency of Rate Increases

1. Senator Carolyn Comitta: Tr. 1457-59. She discussed how water and wastewater services are some of the highest monthly expenses for her constituents. Rate increases harm small businesses and are a barrier to home ownership. She opposes this rate request. Impact of frequent rate increases is cumulative.

2. Representative Christina Sappey: Tr. 1462-63. She noted that last increase was approved recently. She discussed how increase will put residents in a financially stressful situation and will have disproportionate and burdensome effect on low-income seniors/working families. Some workers may be forced to move elsewhere. She requested that the PUC deny PAWC's rate increase proposal.

3. Senator Katie Muth: Tr. 1467-70. She strongly opposes this rate increase. Frequency of rate increases are taking a financial toll on constituents, especially those on fixed incomes. Ratepayers should not be paying for costs associated with acquisitions and construction of water lines to data centers. Inclusion of certain charges in rate base, such as expense claims, rate of return, Act 11 shift, customer charges, and rate design, is unjust and unreasonable. PAWC is a for-profit monopoly; customers have no choice but to use their services. Essential services like water should be accessible regardless of economic circumstance or geographic location.

4. Representative Dan Williams: Tr. 1472-74. He discussed how residents in community are already struggling to keep up with rising costs and being pushed further behind by increased water and wastewater bills. Basic services should not be unattainable. Full infrastructure costs should not be passed onto residential consumers. Rate increases can cause shut-offs, unsafe living conditions, and displacement. PAWC and the Commission should provide solutions such as stronger CAP programs and expanded eligibility, improve rate structures for low-income households, and make infrastructure improvements without overburdening the community.

5. Charles Craven: Tr. 1481-82. He discussed how he opposes the rate increase request, and these rate requests happen almost every year.

6. Steven Binder: Tr. 1496-99. He discussed how PAWC requested rate increases in 2022, 2023, and 2025. He looked back at an acquisition of a municipal water company that happened 20 years ago. The Company freezed rates for the first three years but increased them rapidly since then. Customers do not have a choice of water and wastewater provider because PAWC is monopoly. He looked back at his water bill from 2000, and it was around $70 per month, compared to now at $225 per month. Residents' wages are not close to growing at the same rate. He requested no rate increase.

7. Susan Pullen: Tr. 1505-06. She discussed how her last water bill was $272.75, up from $139 per month in 2024, even though her household is very frugal with water. They don't use the dishwasher and they take quick showers. She is against the rate increase. Many senior people live in the community that rely on social security that cannot afford their water bills.

8. Heather Knapp: Tr. 1514-16. She agreed with Senators Comitta and Muth, Representatives Williams and Sappey, Mr. Craven, Mr. Binder, and Ms. Pullen. After she moved to the area, she remembered how expensive her first water bill was and thought that she made a big mistake moving to this area. Being a customer of PAWC was not something she considered when purchasing a home. She takes extreme measures to save water including collecting excess water in the shower to water plants, using the laundromat instead of the washing machine in her home, and limited toilet flushing. As a social worker she sees how the high water bills impact vulnerable families. She opposes the rate increase.

9. Terry Maenza: Tr. 1541-45. He testified that he is against the rate increase from an affordability and frequency standpoint. He previously worked for PAWC for 15 years and expressed disappointment that the President was not here, since past presidents attended all public input hearings to hear customer concerns. Based on his experiences, he claimed PAWC plans to file rate increases every 2 years. PUC needs to make a stand and end this cycle. There have been five rate increases in less than six years. The Commission should put in place a stay-out provision to prevent rate increases until 2030. Families cannot afford water bills of $200-300 per month. Stay-out would eliminate the expenses of rate cases. Return on equity should be below 9%.

10. Brent Weston: Tr. 1573-76. He testified that PAWC water bills can be around 4 times more expensive than municipal water companies in nearby townships. PAWC adds charges on top of rate bases, and the costs of acquiring other water companies are included in rate base. He is opposed to the rate increase and thinks that the current rate is too high.

11. John Bush: Tr. 1595-96. He discussed that before becoming a PAWC customer in 2016 he was paying water bills ranging from $35-55 per month. Now as a PAWC customer, he is paying $140-150 per month.

12. Holly Hildebrand: Tr. 1599-1601. She testified that the rate increase is not affordable for its customers. This is not the time to increase rates as the cost of living and unemployment rates have increased. She discussed how she fears that she may have to cash in her stocks and retirement plans before they are due to be able to afford the rate increase.

13. John Hashem: Tr. 1604-06. He discussed how as a utility consultant, he begged Valley Township not to sell their water service to PAWC, despite receiving an economic benefit from the sale. This is because residents of Valley Township are now paying 3 times what they were before becoming PAWC customers. He thinks PAWC has grown too big that they should consider divesting. He discussed how many contractors have appeared to testify in favor of PAWC and questioned whether PAWC was paying these contractors to testify. One of his tenant's water bills went from $80 to $300 per month.

14. Stacia James: Tr. 1614-15. She discussed how she works for the government, and she regularly sees residents with water bills that are doubling in cost that can no longer afford their bills. Her water bill with four people in her home is more than a couple years ago when she had eight people living in her home. She urges the Commission to reject the rate increase.

15. Eric Cloyd: Tr. 1618, 1621. He discussed how he found the number of contractors testifying in favor of the rate request disturbing. He wished the Company could share the millions in profits to those who cannot afford their water bills.

16. Jeanie Nelson: Tr. 1678-80. She discussed that PAWC must be held accountable to consumers, that rate increases are very frequent, and that there needs to be some sort of regulation in place that ensures that all the money from the rate increase is only being spent on infrastructure improvements and consumer needs, instead of profits and to shareholders. She also wants to increase transparency from the Company to show consumers how much money from rate increases is being spent on infrastructure and how much goes to profits. She also discussed how once infrastructure improvements are made, consumers' rates should be decreased.

17. City Councilmember Khadijah Al-Amin: Tr. 1687-88. She discussed how with the continued rate increases, the wastewater and water bills are astronomical. She understands that the Company has programs for consumers that are 250% or less of the federal poverty line, but many residents above 250% of the federal poverty line are unable to afford their water and wastewater bills.

18. Board of Supervisors of Valley Township Member Patrice Proctor: Tr. 1698-1700. She testified that her water and wastewater bills are outrageous. She has multiple properties in different parts of PAWC territories, and her bills have wide variations. She believes that flat rate customers are being billed higher than usage rate customers. She wants PAWC to stop buying failing systems, because current PAWC customers are paying for the acquisition costs and repair of the newly acquired systems.

19. Charles Ricky Campbell: Tr. 1704-06. He testified that he is strongly against this rate increase. Many families and seniors are struggling to afford their bills and are at risk of shut offs. He questioned how many shut offs will happen as a result of this rate increase. He suggested the PUC or the legislature place a cap on the increase or put in place a stay out provision to prevent PAWC from requesting increases on a regular basis. His family's bill is $550 per month, and they do not consume a lot of water. His family does not qualify for the CAP program because they earn just over the threshold amount, but they still struggle to afford their bill.

20. Sirpa Cossaboon: Tr. 1712. She testified that when she moved into her house in 2003, their water bill was $30 per month, and now their bill is $400-500 per month. She uses methods such as reducing toilet flushing, taking short showers, purchasing bottled drinking water, and refraining from washing the car or watering the lawn to reduce usage. She opposes the rate increase.

21. Christopher Nicholson: Tr. 1719-23. He testified in opposition of PAWC's rate increase. His family uses the following measures to reduce water usage: reduces toilet flushing, installed low flow toilets, skips showers, purchases bottled drinking water, and refrains from watering the lawn or washing cars. In 2025, he installed a flow meter as a preventative measure in case of fixture failure, and it tracks usage. He discovered from the flow meter that PAWC was charging his household for more water than they were actually using. One month he was overcharged by 440 gallons. The meter also tests for leaks in the house, and he can confirm there are no leaks.

22. Susan Sprinsteen: Tr. 1728-29. She testified that she thinks the notices the Company sends out to customers are misleading because they underestimate the amount of water the average customer uses. Therefore, customers will not recognize that the rate increase will have a more significant impact on their bills than what the notices claim. She thinks that PAWC should redistribute their profits to cover infrastructure costs instead of charging residential customers increased rates.

23. Olivia Maurer: Tr. 1735-37. She shared that water bills will increase by about 40% and wastewater bills will increase by about 54% and shared that 68.4% of the increase will fall on households while industrial consumers would only carry 3.3% of the increase. Many residents of Parkesburg cannot afford their utilities anymore, with seniors, in particular, struggling. Many people are being forced out of their homes because they cannot afford their utilities. Her water and wastewater bill in 2023 was around $91 per month, and she now pays around $180 per month.

Impact of Data Centers on Rates

1. Senator Katie Muth: Tr. 1467. She discussed how there needs to be transparency about the rates that data centers are paying for water services compared to regular customers.

Weather Averaging

1. City Councilmember Khadijah Al-Amin: Tr. 1687. She discussed how customers should not get charged in their wastewater bill for water that is used for watering the lawn/gardens. Because of this, customers are getting charged much more for wastewater than they should be.

Customer Service / Water Quality / Service Disruptions

1. Brent Weston: Tr. 1576. He discussed how, when he was a Chester Water Authority customer, he paid much lower rates and received better water service. The water never went off when he lived there and the water was clean, but since moving to an area where PAWC provides water, the water has gone off a few times and has been cloudy.

2. John Hashem: Tr. 1608. He testified that PAWC recently installed smart meters on some of his properties. He also installed his own submetering to track water usage, and there has not been a single month where his sub meter matched the water usage the smart meter recorded. So smart meter is not accurate.

3. City Councilmember Khadijah Al-Amin: Tr. 1687. She discussed that she has worked with the Company on pipe replacement projects because of flooding, and the Company's proposed infrastructure improvements are not satisfactory. This is because they are replacing the pipes with new pipes of the same size, when what is needed is larger pipes to prevent flooding.

4. Wendy Whitaker: Tr. 1715-16. She testified that she has had to replace her faucets twice in two years because of corrosive water. She lives near a treatment plant and in the summer, the area smells. There are also potholes left on the street after the Company makes repairs.

Unreasonable Corporate Profits and Expenses

1. Senator Carolyn Committa: Tr. 1458. She discussed how public utilities are generating hundreds of millions in profits and is concerned that as water companies get bigger and wealthier, access to affordable and reliable service is decreasing.

2. Charles Craven: Tr. 1482-85. He discussed how, as a public utility who is the sole source of water and wastewater services in the area, it owes a duty to the public. This rate request does the opposite because it favors corporate wealth and gain over public interest. PAWC's parent company American Water has billions in assets, and its CEOs compensation in 2024 was $8.5 million which is an increase from $7.7 million in 2023. Company's proxy statement speaks of upward growth and brags about increased revenue. He said that PAWC can find alternative sources of funding than increasing customers' bills.

3. Steven Binder: Tr. 1494-96. He discussed how American Water has had 16 consecutive years of increases of their annual dividend. He thinks that the Company targets small water municipalities for purchase so they can increase monthly rates under the guise of making

capital improvements. This is being done to reward shareholders while hurting small communities. He also discussed American Water executives' high compensations, comparing it to the much lower average income in PA.

4. Susan Pullen: Tr. 1504, 1506. She discussed how executive compensation at American Water is over $8.5 million per year and that the company gives a lot of contributions, which she fears customers are paying for. The company makes a lot of profit.

5. Terry Maenza: Tr. 1542-43. He testified that PAWC rate increases are driven by promised annual growth rates of 79%. The majority of American Water's revenue comes from Pennsylvania and New Jersey.

6. Brent Weston: Tr. 1574. He believes that PAWC's higher prices were due to it being a for profit, investor-owned utility.

7. Holly Hildebrand: Tr. 1599-1601. She testified that she agrees with others who testified before that American Water has large profits and pay their leadership well. The PUC should compare the amount of profit the Company receives to the average household income to show that an increase is unjustified.

8. Eric Cloyd: Tr. 1618-20. He discussed how the Company's profit margin is increasing, so it seems disingenuous to ask for a rate increase. The residents are paying for these increased profit margins. He wished that there were more regulations that capped the Company's profits.

9. Jeanie Nelson: Tr. 1677-78. She discussed how she learned that PAWC is a for-profit company with executives that are paid in the millions.

10. Tonya James: Tr. 1693-94. She testified that it is unfair for so many contractors and businesses who are not PAWC customers to testify in favor of the rate increase. She believes that Public Input Hearings should be reserved for consumers of PAWC water and wastewater services.

11. Charles Ricky Campbell: Tr. 1704-05. He testified that PAWC is making working people pay for their executives' high compensation, paying $21 million total for just the top 7 executives. He also requested that PAWC be more transparent about what percentage of the rate increase is going towards infrastructure costs versus administrative costs, executive payouts, and shareholder dividends. He said that residential consumers should not be forced to subsidize executive and shareholder profits.

12. Olivia Maurer: Tr. 1735-37. She testified that she was uncomfortable with the large amount of PAWC employees that attended the Public Input Hearing, and that it may unfairly influence people that are testifying. She testified that this rate increase is the result of corporate greed with the parent company receiving high revenue. She testified that the Company can likely improve infrastructure without passing more costs to consumers.

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	:	
	:	
v.	:	Docket Nos. R-2025-3057983 (W)
	:	R-2025-3058051 (WW)
Pennsylvania-American Water Company	:	
	:	

VERIFICATION

I, Barbara R. Alexander, hereby state that the facts above set forth in my Supplemental Direct Testimony, OCA Statement No. 5-Supp, 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 herein are made subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

DATED: February 10, 2026

Signature: */s/ Barbara R. Alexander*
Barbara R. Alexander

Address: Barbara Alexander Consulting LLC
44 Beech Street
Hallowell, ME 04347

OCA St. 2R

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	**:**	
	:	**Docket Nos. R-2025-3057983**
v.	**:**	**R-2025-3058051**
	:	
Pennsylvania American Water Company	**:**	

REBUTTAL TESTIMONY

OF

DAVID J. GARRETT

ON BEHALF OF

THE PENNSYLVANIA OFFICE OF CONSUMER ADVOCATE

February 27, 2026

I. Introduction

Q. State your name and occupation.

A. My name is David J. Garrett. I am a consultant specializing in public utility regulation. I am the managing member of Resolve Utility Consulting PLLC.

Q. Have you previously filed testimony in this proceeding?

A. Yes. I filed direct testimony in OCA Statement 2 on December February 2, 2026, on behalf of the Pennsylvania Office of Consumer Advocate ("OCA"). A summary of my qualifications is included in my direct testimony.

Q. What is the purpose of your rebuttal testimony?

A. My rebuttal testimony addresses the direct testimony of D.C. Patel, who testified on behalf of the Bureau of Investigation and Enforcement ("I&E"). Specifically, I address Mr. Patel's proposed return on equity ("ROE") for Pennsylvania-American Water Company's ("PAWC" or the "Company").

Q. Are you sponsoring any exhibits to your rebuttal testimony?

A. No.

Q. Please summarize Mr. Patel's estimated cost of equity and authorized ROE proposal for the Company.

A. Mr. Patel proposes an authorized ROE of 9.80%, which is based on the results of his Discounted Cash Flow ("DCF") Model and Capital Asset Pricing Model ("CAPM") results, which were 10.09% and 9.51%, respectively.[1]

[1] Direct Testimony of D.C. Patel, p. 32, lines 7-10.

Q. How does Mr. Patel's estimated cost of equity and proposed ROE for the Company compare with your estimated cost of equity and proposed ROE.

A. In my direct testimony, I presented evidence supporting my estimated cost of equity of 8.7% for the Company, which is also the authorized ROE I propose for the Company. My proposed ROE was based on the results of my CAPM and DCF Models. Thus, Mr. Patel proposes a significantly higher authorized ROE for PAWC than I do. Specifically, the difference in our ROE recommendations is 110 basis points. Holding all else constant, the difference in our ROE recommendations would have an impact of approximately $58 million on the revenue requirement.

Q. Please summarize the results of your application of the DCF Model and explain how it differs from Mr. Patel's results.

A. I conducted two variations of the DCF Model. In one variation, I consider long-term annual U.S. Gross Domestic Product ("GDP") growth projections as a cap on the long-term growth rate of each individual company in the proxy group. This "sustainable" DCF Model variation is based on the fundamental principal that no domestic company can achieve annual earnings and/or dividend growth at a rate that exceeds the growth rate of the aggregate economy in which it operates over the long-run (which is measured by U.S. GDP). In the second variation of my DCF Model, I incorporate the short-term dividend growth rate projections published by Value Line. I presented this "analyst growth" variation of my DCF Model because, despite its shortcomings, it is often presented in rate proceedings and considered by regulators. The result of my sustainable growth DCF Model indicates a cost of equity of 6.8% for the Company, and the result of my analyst-growth DCF Model indicates a cost of equity of 9.3%. The average result of my two DCF Models is 8.0%. This is notably less than Mr. Patel's DCF result of 10.09%.

Q. Why is Mr. Patel's DCF result significantly higher than your result?

A. The primary reason Mr. Patel's DCF Model produced a much higher result than mine is his use of unsustainably high growth rates. Mr. Patel used a composite growth rate for the proxy group of 7.13%.[2] In contrast, the average growth rate I used for the proxy group was only 6.2% for my analyst-growth DCF Model. The average growth rate for my sustainable growth DCF Model is equal to a projection of long-term U.S. GDP growth, which is only 3.7%.[3]

Q. Do you believe Mr. Patel's growth rate estimate is reasonable?

A. No. An average growth rate of 7.13% for the proxy group is unreasonably high in my opinion. This growth rate suggests that the proxy group, on average, can achieve dividend (and/or earnings) growth at a rate nearly two times projected annual GDP growth every year in perpetuity. From a strict mathematical standpoint, this suggests that the annual earnings of the proxy group would eventually surpass total U.S. GDP, which is impossible.

Q. Why were the results of Mr. Patel's DCF Model even higher than the analyst growth variation of your DCF Model?

A. As discussed in my direct testimony, I presented a variation of the DCF Model that considers the short-term annual growth rate projections estimated by analysts (specifically, Value Line), despite the shortcomings of this approach. Even the result of this variation of the DCF Model indicated a cost of equity of only 9.3%, which is still significantly less than Mr. Patel's result of 10.08%. This is because I used Value Line's projections for dividend growth instead of earnings growth. In the discounted *cash flow* model, the "cash" that is

---

[2] Direct Testimony of D.C. Patel, p. 34, lines 13-15.

[3] *See* Direct Testimony of David J. Garrett, Exhibit DJG-6.

being discounted is the dividends paid to investors. While it is true that dividends are paid from earnings, and earnings growth can be an indicator to consider when assessing the growth rate input in the DCF Model, the ultimate form of "cash flow" in the discounted cash flow model, is dividends. In that regard, it is reasonable to consider dividend growth when conducting the DCF Model. This is especially true if short-term earnings growth projections far exceed U.S. GDP growth. If the Commission is inclined to give weight to a DCF Model that uses analysts' short-term growth rate projections as the long-term growth rate input to the model, it should give more consideration to the dividend growth rate projections of the proxy group rather than the earnings growth rate projections used by Mr. Patel.

Q. Please summarize the results of your CAPM and explain how it differs from Mr. Patel's results.

A. My application of the CAPM indicates a cost of equity of 8.7% for PAWC, which is notably less than Mr. Patel's CAPM cost of equity result of 9.51%.[4]

Q. Why is Mr. Patel's CAPM result significantly higher than your result?

A. Mr. Patel conducted two variations of the CAPM. In one variation, he uses an equity risk premium ("ERP") estimate based on historical market returns dating back to 1926. This CAPM variation produced an indicated cost of equity of 9.96%. In the other CAPM variation, he uses the ERP estimated by Kroll. This CAPM variation produced an indicated cost of equity of 9.05%, which is relatively closer to my CAPM result. Mr. Patel averages his two CAPM results to arrive at a composite CAPM result of 9.51%.

[4] Direct Testimony of D.C. Patel, p. 39, line 15.

Q. Did Kroll recently reaffirm a recommended ERP of 5.0% instead of the 5.5% used by Mr. Patel?

A. Yes. Kroll published an ERP estimate of 5.0% in 2025, and according to Business Valuation Resources, this 5.0% ERP was reaffirmed early this year.[5] This means Mr. Patel's variation of the CAPM that relies on Kroll's ERP estimate is overstated.

Q. What is the result of Mr. Patel's CAPM using the updated ERP from Kroll?

A. Using Kroll's updated ERP estimate of 5.0% (instead of 5.5%) in Mr. Patel's CAPM application would produce an indicated cost of equity of 8.6% for PAWC (8.6% = 4.76% + 0.78 x 5.0%).

Q. Do you believe this corrected result would be a reasonable authorized ROE for PAWC?

A. Yes. An authorized ROE of 8.6% is substantially similar to my recommended ROE of 8.7% and it falls within the range of my modeling results.

Q. Do you agree with Mr. Patel's decision to include the results of his other CAPM variation which relies on historical market returns?

A. No. An ERP estimate that relies on stock market data as old as 1926 is not nearly as accurate as Kroll's current ERP estimate. As discussed in my testimony, there is abundant research showing that the current and forward-looking ERP is lower than one that is determined strictly from historical calculations, particularly those that rely on metrics predating the Great Depression. Thus, I believe Mr. Patel's CAPM variation (which includes Kroll's updated ERP) is the one that produces the most reasonable result, which is 8.6%.

---

[5] Kroll, Cost of Capital Inputs Updated to Reflect Heightened Uncertainty in Global Economy (April 15, 2025); see also https://www.bvresources.com/articles/bvwire/kroll-reaffirms-us-erp-at-50-and-lowers-eurozone.

Q. Does this conclude your rebuttal testimony?

A. Yes.

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	:	
	:	
v.	:	Docket Nos. R-2025-3057983 (W)
	:	R-2025-3058051 (WW)
Pennsylvania-American Water Company	:	
	:	

VERIFICATION

I, David J. Garrett, hereby state that the facts above set forth in my Rebuttal Testimony, OCA Statement No. 2R, 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 herein are made subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

DATED: February 27, 2026

Signature: */s/ David J. Garrett*
David J. Garrett

Address: 101 Park Avenue
Suite 1125
Oklahoma City, OK 73120

OCA STATEMENT 3R

BEFORE THE

PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	**)**	**Docket Nos.**	**R-2025-3057983 (Water)**
	)		**R-2025-3058051 (Wastewater)**
v.	**)**		
	)		
Pennsylvania-American Water Company	**)**		

REBUTTAL TESTIMONY OF

JEROME D. MIERZWA

ON BEHALF OF THE

PENNSYLVANIA OFFICE OF CONSUMER ADVOCATE

FEBRUARY 27, 2026

EXETER
ASSOCIATES, INC.
10480 Little Patuxent Parkway, Suite 300
Columbia, Maryland 21044

TABLE OF CONTENTS

Page

I. INTRODUCTION 1

II. I&E WITNESS: ESYAN A. SAKAYA 1

III. OSBA WITNESS: ROGER CATHCART 4

IV. I&E WITNESS: ETHAN H. CLINE 5

IV. OSBA WITNESS: JOSEPH KUBAS 9

I. INTRODUCTION

Q. WOULD YOU PLEASE STATE YOUR NAME AND BUSINESS ADDRESS?

A. My name is Jerome D. Mierzwa. I am a Principal at and the President of Exeter Associates, Inc. ("Exeter"). My business address is 10480 Little Patuxent Parkway, Suite 300, Columbia, Maryland 21044. Exeter specializes in providing public utility-related consulting services.

Q. HAVE YOU PREVIOUSLY TESTIFIED IN THIS PROCEEDING?

A. Yes. My direct testimony was submitted as OCA Statement 3 in this Pennsylvania-American Water Company ("PAWC" or "Company") base rate proceeding on January 30, 2026.

Q. WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?

A. The purpose of my rebuttal testimony is to respond to certain aspects of the direct testimony submitted by Bureau of Investigation and Enforcement ("I&E") witnesses Esyan A. Sakaya and Ethan H. Cline, and Office of Small Business Advocate ("OSBA") witnesses Roger Cathcart and Joseph Kubas. Each of these I&E and OSBA witnesses address cost allocation, revenue allocation, and rate design issues.

II. I&E WITNESS: ESYAN A. SAKAYA

Q. THE COMPANY HAS PROPOSED INCREASING THE CURRENT RATE ZONE 7 5/8-INCH RESIDENTIAL MONTHLY CUSTOMER CHARGE FOR WATER SERVICE FROM $8.89 TO $9.75, OR BY 9.7%. DOES MR. SAKAYA AGREE WITH THIS INCREASE?

A. No. Rate Zone 7 currently consists of customers formerly served by the Manwalamink Water and Sewer Company ("Manwalamink") which PAWC acquired in June 2025. As stated in PAWC Statement No. 10, page 14, the Company is proposing to move monthly

customer charges for water service directionally towards those of Rate Zone 1 for all classes. The current Rate Zone 1 monthly customer charge for a Residential customer with a 5/8-inch meter is $18.80, and the Company is proposing to increase this charge by $1.20, to $20.00. Mr. Sakaya claims that PAWC's proposed customer charge increase for Rate Zone 7 would increase the distance between Rate Zone 1 rates and Rate Zone 7 rates.[1] To provide for movement toward the Rate Zone 1 Residential customer charge, Mr. Sakaya has proposed increasing the charge to 75% of the proposed Rate Zone 1 charge of $20.00, or to $15.00, which reflects an increase of nearly 70%.[2]

Q. DO YOU AGREE WITH MR. SAKAYA'S PROPOSAL TO INCREASE THE MONTHLY RESIDENTIAL CUSTOMER CHARGE TO $15.00?

A. No. In PAWC Statement No. 10, pages 23-24, the Company claimed that its acquisition of Manwalamink is governed by a Commission approved settlement (Docket No. A-2023-3044418 et. al.). The Company claims that the settlement provided that any changes to Manwalamink rates would take place on June 25, 2027, with rate increases not to exceed 10%. Consistent with this claim, the Company limited the increase in the Rate Zone 7 monthly Residential customer charge to 9.7%. Based on the Company's claim that its acquisition of Manwalamink is governed by a Commission approved settlement that limited rate increases to 10%, I accepted PAWC's proposed increase to the Rate Zone 7 monthly Residential customer charge in my direct testimony.

Based on subsequent advice of Counsel, I am informed that PAWC's acquisition of Manwalamink is not governed by a Commission approved settlement and the Commission's Order approving the acquisition did not limit rate increases to 10%. The Commission stated in its Order that it is in no way limited in exercising its power and discretion in setting rates:

[1] I&E Statement No. 3, p. 11.
[2] I&E Statement No. 3, p. 12.

"Therefore, we agree with PAWC that the OCA's proposal that explicit safeguards must be established to prevent PAWC's current customers from subsidizing Manwalamink's customers, including the OCA's proposal that the revenue shortfall from the ten-year CAGR restricting rate increase requests to Manwalamink customers by 10% should be **recovered by PAWC's shareholders, is neither appropriate nor necessary. To reiterate, the Commission is in no way limited in exercising its power and discretion in setting rates due to PAWC's agreement in the SPA First Amendment**."[3] (Emphasis added).

Therefore, I believe that an increase in the Manwalamink Residential customer charge of greater than 9.7% would be appropriate. However, the 70% increase proposed by Mr. Sakaya is too extreme and inconsistent with the ratemaking concept of gradualism which I discuss in my direct testimony.[4] Therefore, I recommend that the Rate Zone 7 monthly Residential customer charge be increased to $12.00, or by 35%, which would reflect an increase equal to approximately twice the overall system increase in water rates PAWC is proposing in this proceeding.

Q. IS MR. SAKAYA ALSO PROPOSING AN INCREASE IN RATE ZONE 7 USAGE CHARGES FOR RESIDENTIAL CUSTOMERS WHICH EXCEEDS 10%?

A. Yes. As shown on I&E Exhibit No. 3, Schedule 1, Page 8, Mr. Sakaya is proposing to increase the Rate Zone 7 Residential usage charge by 29.1%.

Q. DO YOU AGREE WITH MR. SAKAYA'S USAGE CHARGE PROPOSAL?

A. Mr. Sakaya's usage charge proposed is comparable to the increase I am now recommending for Rate Zone 7 Residential monthly customer charges. Therefore, Mr. Sakaya's proposal is acceptable.

[3] PAWC acquisition of Manwalamink, Opinion and Order, p. 67 (March 27, 2025)
[4] OCA Statement No. 3, p. 28.

III. OSBA WITNESS: ROGER CATHCART

Q. THE OSBA GENERALLY AGREES WITH PAWC'S PROPOSED REVENUE ALLOCATION FOR WATER SERVICE, EXCLUSIVE OF ACT 11 CONSIDERATIONS.[5] DO YOU AGREE WITH PAWC'S PROPOSED REVENUE ALLOCATION FOR WATER SERVICE?

A. No. As explained in my direct testimony, PAWC's proposed revenue allocation for water service is generally based on the results of its class cost of service ("CCOS") study.[6] As also explained in my direct testimony, the system wide maximum day and maximum hour extra capacity demand factors utilized by PAWC in its CCOS study are outdated.[7] In my direct testimony, I revised PAWC's CCOS study to reflect more recent extra capacity demand factors.[8] I also presented a revised revenue allocation based on the revised CCOS utilizing the same approach utilized by the Company to develop its proposed revenue allocation.[9] My revised revenue allocation should be adopted by the Commission in this proceeding and proportionately adjusted to reflect the revenue requirement increase authorized by the Commission in this proceeding.

Q. IS THE OSBA IN AGREEMENT WITH THE COMPANY'S PROPOSED METHOD OF ALLOCATING ITS ACT 11 REVENUE REQUIREMENT TO ITS WATER SERVICE CLASSES?

A. PAWC has proposed that the Act 11 wastewater revenues be recovered from the Company's respective corresponding water service classes. The OSBA is in agreement with this approach.[10]

Q. ARE YOU IN AGREEMENT WITH THIS APPROACH?

[5] OSBA Statement No. 3, pp. 12-13.
[6] OCA Statement No. 3, p. 29.
[7] OCA Statement No. 3, p. 15.
[8] OCA Statement No. 3, p. 17.
[9] OCA Statement No. 3, pp. 31-32.
[10] OSBA Statement No. 3, p. 14.

A. No. As explained in greater detail in my direct testimony, the method used by the Company to assign the Act1 11 wastewater revenues to the water service customer classes is not reasonable.[11] The Act 11 wastewater revenues should be assigned to the same customer classes the Company has proposed to assign the Act 11 revenues based on the cost of service for each customer class. This is the approach approved by the Commission in the Company's 2023 base rate proceedings in Docket Nos. R-2023-3043189 and R-2023-3043190.

IV. I&E WITNESS: ETHAN H. CLINE

Q. IN YOUR DIRECT TESTIMONY YOU PROPOSED ADJUSTMENTS TO THE $53,010,182 ACT 11 ALLOCATIONS PROPOSED BY PAWC.[12] MR. CLINE HAS ALSO PROPOSED ADJUSTMENTS.[13] PLEASE SUMMARIZE PAWC'S PROPOSED ACT 11 ALLOCATIONS, AND YOUR AND MR. CLINE'S PROPOSED ACT 11 ADJUSTMENTS.

A. Table 1-R summarizes the Act 11 allocations initially proposed by PAWC, the proposed Act 11 allocations I and Mr. Cline presented in our direct testimony, and the differences between the Act 11 allocations of the PAWC, OCA and I&E. As shown on Table 1-R, Mr. Cline reduced I&E's Sanitary Sewer System ("SSS") Act 11 allocation by $5,139,988. I had proposed eliminating the SSS Act 11 allocation. For the Combined Sewer Systems ("CSS"), Mr. Cline actually increased the Act 11 allocation, by $3,722,081. I had also proposed eliminating the CSS Act 11 allocation. Mr. Cline and I both accepted PAWC's BASA Act 11 allocation. Mr. Cline reduced PAWC's EBMA Act 11 allocation by $189,541. I had accepted PAWC's EBMA Act 11 allocation.

[11] OCA Statement No. 3, pp. 25-26.
[12] OCA Statement No. 3, pp. 25-26.
[13] I&E Statement No. 4, I&E Exhibit No. 4, Schedule 1.

Table 1-R. Summary of Act 11 Allocation Proposals of Company, OCA and I&E

		OCA		I&E		
	PAWC	Allocation	PAWC Difference	Allocation	PAWC Difference	OCA/I&E Difference
Sanitary Systems	$12,710,621	$0	$(12,710,621)	$5,139.988	$(7,570,633)	$5,139,988
Combined Systems	7,062,475	0	(7,062,475)	(3,722,081)	(10,784,556)	$(3,722,081)
BASA	30,280,040	30,280,040	0	30,280,040	0	0
EBMA	2,957,046	2,957,046	0	2,767,505	(189,541)	0
TOTAL	**$53,010,182**	**$33,237,086**	**$(19,773,096)**	**$34,465,452**	**$(18,544,730)**	**$1,228,366**

Q. HOW DID MR. CLINE DETERMINE HIS PROPOSED ADJUSTMENT TO PAWC'S SSS ACT 11 ALLOCATION?

A. Mr. Cline reduced the SSS Act 11 allocation by increasing the usage rates of certain customer rate classes in the SSS rate zones above those proposed by PAWC. The increases that would be experienced by the average customer in each rate class in each SSS rate zones under PAWC's proposed rates and Mr. Cline's proposal are presented in unnumbered tables in his direct testimony as follows: Residential - page 26; Commercial - page 34,[14] Industrial - page 41. The increases for the Municipal customer class are summarized and presented in I&E Exhibit No. 4, Schedule 9, Page 1.

Q. WHAT IS YOUR RESPONSE TO MR. CLINE'S PROPOSED ADJUSTMENTS TO PAWC'S SSS ACT 11 ALLOCATION?

A. I agree with Mr. Cline that the SSS Act 11 allocation should be reduced. As noted on page 20 of his direct testimony, Mr. Cline believes that each type of utility service (water and wastewater) should recover as much of the cost of providing that service as possible. He

[14] The table on this page refers to the Residential class, but actually reflects the increases for the Commercial class.

further notes that since most PAWC water customers are not also PAWC wastewater customers, it is unreasonable to require these water customers to subsidize wastewater customers to the extent PAWC has proposed. I agree with Mr. Cline that each type of utility service should recover as much of the cost of providing that service as possible and subsidies should be minimized or eliminated. Under Mr. Cline's proposal, at PAWC's requested revenue requirement, water customers would be providing a subsidy of $5,139,988 to SSS wastewater customers. I believe that this subsidy should be eliminated entirely as explained on pages 25-26 of my direct testimony.

With respect to reducing the subsidy by increasing usage rates, I disagree with this approach. As explained on page 28 of my direct testimony, gradualism is one of the principles of a sound rate design. While there is no hard and fast rule with respect to applying the concept of gradualism, typically an increase of 1.5 to 2.0 times the system average increase is considered consistent with the concept of gradualism. In this proceeding, the system average SSS wastewater increase without PAWC's proposed Act 11 allocation is 18.5%. Any SSS Act 11 allocation would reduce the system average increase. This implies that to be consistent with the concept of gradualism, the increase for any customer class in any SSS wastewater rate zone should be less than 37.0%. As shown on page 26 of his direct testimony, Mr. Cline is proposing increases in excess of 55.0% for Residential customers in certain rate zones. For Commercial customers, as shown on page 34, Mr. Cline is proposing increases in excess of 88.0% for customers in certain rate zones. For Industrial customers, as shown on page 41, Mr. Cline is proposing an increase in excess of 127.0% for one of the SSS wastewater rate zones. For the Municipal class, as shown I&E Exhibit No. 4, Schedule 9, Page 1, Mr. Cline is proposing an increase in excess of 205.0% for one of the SSS wastewater rate zones. As such, many of the usage charges increases proposed by Mr. Cline are extreme and do not provide for gradualism. Therefore,

I continue to support my direct testimony recommendation to completely eliminate the SSS wastewater Act 11 allocation to water, and to assign that the SSS wastewater Act 11 allocation to each customer class in each rate zone based on the same percentage of the increase PAWC assigned its requested revenue requirement increase to each class.

Q. PAWC CURRENTLY SERVES TWO CSS WASTEWATER RATE ZONES – RATE ZONE 2 AND RATE ZONE 2A-SCRANTON. WHAT HAS MR. CLINE PROPOSED FOR RATES IN THESE TWO RATE ZONES?

A. Mr. Cline has proposed consolidating Rate Zone 2a with the rates the Company has proposed for Rate Zone 2. As shown on I&E Exhibit No. 4, Schedule 11, this results in each customer class in each rate zone receiving an increase of approximately 20%, and increases CSS wastewater revenues by $10,784,556, thereby eliminating the CSS wastewater Act 11 allocation to water service.

Q. DO YOU AGREE WITH MR. CLINE'S RATE PROPOSAL FOR CSS WASTEWATER SERVICE.

A. Yes, I do. In my direct testimony I recommend that CSS Rate Zone 2 and Rate Zone 2a be assigned a percentage increase equal to the overall CSS percentage rate increase authorized by the Commission. Under Mr. Cline's proposal each customer class in each rate zone would receive approximately the same percentage increase.

Q. EARLIER YOU INDICATED THAT MR. CLINE HAS PROPOSED TO DECREASE THE EBMA CSS WASTEWATER ACT 11 ALLOCATION TO WATER SERVICE BY $189,541. HOW IS MR. CLINE PROPOSING TO REDUCE THE EBMA ACT 11 ALLOCATIONS.

A. As explained on page 52 of his direct testimony, Mr. Cline is proposing to increase rates for certain Residential, Commercial, Industrial, and Municipal EBMA customer classes in

newly created Rate Zone 2b. Those increases are presented in I&E Exhibit No. 4, Schedule 16.

Q. DO YOU AGREE WITH MR. CLINE'S PROPOSED REDUCTION TO THE EBMA ACT 11 ALLOCATION?

A. As shown on I&E exhibit No. 4, Schedule 16, pro-forma revenues for the Residential class at presents rate are $454,286 ($252,840 Service Charge Revenues + $201,446 Usage Charges). Under Mr. Cline's proposal, pro-forma revenues at his proposed rates would be $748,902 ($252,840 Service Charge Revenues + $496,062 Usage Charges). This reflects an increase of 64.5% for the Residential class. This is significantly higher than the 40% increase Mr. Cline has accepted for BASA and is inconsistent with rate stability and gradualism. Therefore, I do not agree with Mr. Cline's proposal to eliminate the EBMA Act 11 allocation.

IV. OSBA WITNESS: JOSEPH KUBAS

Q. AS PREVIOUSLY INDICATED IN YOUR DIRECT TESTIMONY YOU PROPOSED ADJUSTMENTS TO THE $53,010,182 ACT 11 ALLOCATION OF WASTEWATER COSTS TO WATER SERVICE PROPOSED BY PAWC. MR. KUBAS HAS ALSO PROPOSED ADJUSTMENTS TO THE ACT 11 ALLOCATION. PLEASE SUMMARIZE PAWC'S PROPOSED ACT 11 ALLOCATION, AND YOU AND MR. KUBAS' PROPOSED ADJUSTMENTS.

A. Table 2-R summarizes the Act 11 allocations initially proposed by PAWC, the proposed Act 11 allocation that I and Mr. Kubas presented in our direct testimony, and the differences between the Act 11 allocations of PAWC, the OCA and OSBA. As shown in Table 2-R, Mr. Kubas reduced PAWC's SSS wastewater Act 11 allocation by $10,751,725. I had proposed eliminating the SSS Act 11 allocation. For CSS, Mr. Kubas proposed to eliminate the Act 11 allocation of $7,062,475, and increase the recovery of revenues from

CSS customers by $11,632,644, for a total revenue difference of $18,695,119. For the BASA Act 11 allocation, Mr. Kubas increased the allocation by $992,905. Mr. Kubas has proposed to decrease the ESMA Act 11 allocation by $287,995. In total, Mr. Kubas has proposed to decrease the Act 11 wastewater allocation to water service by $28,741,934.

Table 2-R. Summary of Act 11 Allocation Proposals of Company, OCA and OSBA

		OCA		OSBA		
	PAWC	Allocation	PAWC Difference	Allocation	PAWC Difference	OCA/OSBA Difference
Sanitary Systems	$12,710,621	$0	$(12,710,621)	$1,958,896	$(10,751,725)	$1,958,896
Combined Systems	7,062,475	0	(7,062,475)	(11,632,644)	(18,695,119)	$(11,632,644)
BASA	30,280,040	30,280,040	0	31,272,945	992,905	0
EBMA	2,957,046	2,957,046	0	2,669,051	(287,995)	(287,995)
TOTAL	**$53,010,182**	**$33,237,086**	**$(19,773,096)**	**$24,268,248**	**$(28,741,934)**	**$(9,961,743)**

Q. HOW DID MR. KUBAS DETERMINE HIS PROPOSED ADJUSTMENT TO PAWC'S SSS WASTEWATER ACT 11 ALLOCATION?

A. Mr. Kubas reduced the SSS Act 11 allocation by increasing the usage rates of certain customer rate classes in the SSS rate zones above those proposed by PAWC. The increase that would be experienced by the average customer in each rate class in each SSS rate zone under Mr. Kubas' proposal is presented in OSBA Exhibit JK-6.

Q. DO YOU AGREE WITH MR. KUBAS' PROPOSED ADJUSTMENTS TO PAWC'S SSS ACT 11 ALLOCATION?

A. I agree with Mr. Kubas that the SSS Act 11 allocation should be reduced. However, as explained on pages 25 - 26 of my direct testimony, it is my recommendation that the SSS Act 11 allocation to water service be eliminated. Mr. Kubas' proposed adjustments continue to provide for a $1,958,896 SSS Act 11 allocation to water service. To provide

for the elimination of the SSS Act 11 allocation, I continue to support the recommendation presented on page 36 of my direct testimony to assign the entire direct SSS revenue requirement increase authorized by the Commission in this proceeding to each customer class in each SSS rate zone based on the same percentage of the increase PAWC assigned its requested revenue requirement increase to each customer class.

Q. WHAT HAS MR. KUBAS PROPOSED FOR CSS WASTEWATER RATE ZONE 2 AND RATE ZONE 2A SCRANTON?

A. As shown on OSBA Exhibit JK-8, like Mr. Cline, Mr. Kubas has generally proposed consolidating the proposed rates for Rate Zone 2a with the proposed rates for Rate Zone 2. This eliminates the CSS Act 11 allocation to water service and, as shown on OSBA Exhibit JK-2, increases total CSS wastewater revenues by $22,037,011. As indicated on OSBA Exhibit JK-10, Mr. Kubas proposes to use $11,632,644 of this CSS revenue increase to reduce the BASA Act 11 allocation to water service.

Q. DO YOU FIND MR. KUBAS' RATE PROPOSAL FOR CSS WASTEWATER SERVICE TO BE REASONABLE?

A. Yes, I do.

Q. DOES THIS CONCLUDE YOUR REBUTTAL TESTIMONY?

A. Yes, it does. I reserve the right to update my testimony based on additional information received in the course of discovery.

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	:	
	:	
v.	:	Docket Nos. R-2025-3057983 (W)
	:	R-2025-3058051 (WW)
Pennsylvania-American Water Company	:	
	:	

VERIFICATION

I, Jerome D. Mierzwa, hereby state that the facts above set forth in my Rebuttal Testimony, OCA Statement No. 3R, 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 herein are made subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

DATED: February 27, 2026

Signature: */s/ Jerome D. Mierzwa*
Jerome D. Mierzwa

Address: Exeter Associates, Inc.
10480 Little Patuxent Parkway
Suite 300
Columbia, MD 21044-3575

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	**:**	
	:	**Docket Nos. R-2025-3057983**
v.	**:**	**R-2025-3058051**
	:	
Pennsylvania American Water Company	**:**	

SURREBUTTAL TESTIMONY

OF

LAFAYETTE K. MORGAN, JR.

ON BEHALF OF THE

PENNSYLVANIA OFFICE OF CONSUMER ADVOCATE

March 13, 2026

EXETER
ASSOCIATES, INC.
10480 Little Patuxent Parkway, Suite 300
Columbia, Maryland 21044

TABLE OF CONTENTS

I. INTRODUCTION 1

II. REVENUE REQUIREMENT ISSUES 3

1. Request for Deferred Accounting Treatment for Pension and OPEB Expenses 3
2. Performance-Based Compensation 7
3. Utility System Acquisitions Transaction Costs 11
4. Labor Vacancy Rate Adjustment 18
5. Group Insurance Expense 19
6. Transportation Expense 20
7. Third Party Call Centers 20

I. Introduction

Q. **PLEASE STATE YOUR NAME, POSITION AND BUSINESS ADDRESS.**

A. My name is Lafayette K. Morgan, Jr. My business address is 10480 Little Patuxent Parkway, Suite 300, Columbia, Maryland, 21044. I am a Public Utilities Consultant working with Exeter Associates, Inc. ("Exeter"). Exeter is a consulting firm specializing in issues pertaining to public utilities.

Q. **ARE YOU THE SAME LAFAYETTE K. MORGAN, JR. WHO SUBMITTED PRE-FILED DIRECT TESTIMONY IN THIS PROCEEDING?**

A. Yes, I am.

Q. **WHAT IS THE PURPOSE OF YOUR SURREBUTTAL TESTIMONY?**

A. The purpose of my surrebuttal testimony is to respond to the rebuttal testimonies of Pennsylvania-American Water Company ("PAWC" or "the Company") witnesses Christina E. Chard, Jim Runzer, Robert V. Mustich, Jared Deason, Lori N. O'Malley, and Don Wieczenski which were filed on February 27, 2026. In this surrebuttal testimony, I will respond to these witnesses' disagreements with the adjustments I recommended in my direct testimony and further explain why I continue to recommend the adjustments I made. In certain instances, I have either revised or withdrawn adjustments that I initially recommended in direct testimony. I will provide an explanation of those changes later in this testimony.

Q. **HAVE YOU PREPARED EXHIBITS TO ACCOMPANY YOUR SURREBUTTAL TESTIMONY?**

A. Yes. As presented in my direct testimony, I have prepared five separate costs of service for each of the operations (i.e., Water Operations, Wastewater SSS Operations, BASA Wastewater Operation, CSS Wastewater Operations, and Elizabeth Borough CSS Wastewater Operations) presented by PAWC that accompany my surrebuttal testimony.

As the starting point, I have used the cost of service presented in PAWC's rebuttal filing and made adjustments consistent with the positions taken in my direct testimony, except where I have revised the adjustments.

As a result of incorporating all changes, the OCA's revenue requirement has been revised. To the extent any changes have been made, I will explain why the change was necessary. After incorporating PAWC's and the OCA's changes to the cost of service, the OCA's combined recommended decrease in rates is now $14,951,593. This amount reduces the decrease of $17,331,252 that I recommended in my direct testimony by $2,379,659. However, my recommended decrease is $178,309,329 less than PAWC's revised requested increase of $163,357,736 that was presented in its rebuttal filing. The table below summarizes the revenue requirement effect of the OCA's adjustments.

Pennsylvania-American Water Company
Summary of the Revenue Effect of the OCA's Adjustments
For the Future Test Year Ended June 30, 2027

Line No.	Description	Total Company	Water Operations	Wastewater SSS General Operations	BASA Wastewater Operations	CSS Wastewater Operations	Elizabeth Borough Wastewater Operations
1	Additional Revenue Requirement per Company	$163,357,735	$ 93,761,418	$19,940,078	$35,359,145	$10,785,278	$ 3,511,816
2	OCA Adjustments:						
3	Change in Capital Structure	(721,706)	(718,018)	-	(3,305)	-	(383)
4	Change in Return on Equity	(113,947,594)	(90,470,248)	(10,632,658)	(3,948,387)	(8,439,078)	(457,223)
5	Adjustment to Performance Pay	(3,169,050)	(2,856,445)	(224,318)	(83,412)	(4,876)	-
6	Adjustment to Group Insurance	(593,653)	(444,021)	(47,529)	(24,634)	(77,468)	-
7	Adjustment to Transportation Exp	(227,096)	(180,859)	(8,984)	(4,486)	(32,767)	-
8	Acquisition Costs	(527,586)	(286,767)	(240,819)	-	-	-
9	Depreciation Expense	(58,705,105)	(37,639,978)	(5,909,565)	(10,721,926)	(4,135,483)	(298,153)
10	Third Party Call Centers	(297,935)	(236,948)	(27,014)	(4,325)	(29,059)	(589)
11	Unreconciled	(119,604)	(70,308)	(15,178)	(23,616)	(8,211)	(2,291)
12	OCA Recommended change in Revenue	$ (14,951,593)	$(39,142,174)	$ 2,834,013	$20,545,055	$ (1,941,664)	$ 2,753,177

Q. PLEASE PROVIDE SOME INSIGHT INTO WHY THE OCA'S CHANGE TO PAWC'S REQUESTED REVENUE INCREASE IS SO SIGNIFICANT.

A. Yes. The primary drivers of the rate increase sought by PAWC is related to its return on investment and its return of investment. For the combined water and wastewater operations, these two components account for approximately $173 million of the OCA's recommended reduction in the proposed rate increase. The revenue requirement effect of the OCA's change in the Company's requested return on equity ("ROE") accounts for $113.9 million, the OCA's change in the Company's requested capital structure accounts for $0.722 million and the OCA's change in depreciation rates accounts for $58.7 million. PAWC's requested ROE of 10.95% is significantly higher than what the OCA's expert witness considers to be a reasonable ROE. In turn, a high ROE contributes to a higher overall rate of return ("ROR") on rate base (invested capital). In addition to the ROE/ROR, PAWC is also seeking a higher return of investment (recovery of capital investment or depreciation). A higher depreciation expense essentially means a faster recovery of capital investment.

The adjustments I have made to PAWC's requested investment in plant, the removal of acquisition adjustments related to PAWC's acquisition of the Manwalamink water and sewer system and the Farmington Township water system, are included in the amounts I have identified above.

II. Revenue Requirement Issues

1. Request for Deferred Accounting Treatment for Pension and OPEB Expenses

Q. **PLEASE RESPOND TO DR. CHARD'S DISAGREEMENT WITH YOUR RECOMMENDATION THAT THE REQUEST FOR DEFERRED ACCOUNTING TREATMENT FOR PENSION AND OPEB EXPENSES NOT BE AUTHORIZED.**

A. In my direct testimony, I recommended that PAWC's request for the authority to use a deferred accounting mechanism to record pension and OPEB expenses as a regulatory asset be denied. In explaining my reasons for disagreeing with the Company's request, I raised

two important points. First, I acknowledge that it is impossible to project future expenses with 100% accuracy. The second is that the Company is seeking special treatment of these expenses while all other costs are subject to the standard ratemaking practice of using the forecasted amounts for the FPFTY. After reviewing Dr. Chard's rebuttal and direct testimonies, and the direct testimony of Company witness John Popiolek, I do not believe the Company has made a valid argument why deviation from the normal ratemaking treatment for pension and OPEB expenses is necessary or justified. As explained below, there is an alternative to establishing a regulatory asset. Additionally, the justification for the deferred accounting authority, as presented in Dr. Chard's direct testimony,[1] appears to only focus on how pension and OPEB expenses were set in the last rate case rather than seeking solutions that may be possible using actuarial and forecasting techniques. Moreover, as I will discuss below, this single-issue ratemaking approach would likely cause significant balances to accumulate between rate cases. Therefore, I continue to recommend that the deferred accounting treatment be denied.

Q. **WHAT WERE THE REASONS GIVEN BY THE COMPANY FOR REQUESTING DEFERRED ACCOUNTING TREATMENT FOR PENSION AND OPEB EXPENSES?**

A. In Dr. Chard's direct testimony, she stated that pension and OPEB expenses "are difficult to predict and can materially increase or decrease from year-to-year because pension and OPEB costs are based on actuarial forecasts that take into account a number of economic and demographic factors."[2] No additional detail was provided in Ms. Chard's rebuttal testimony. Likewise, in Mr. Popiolek's direct testimony, he repeats the argument that pension and OPEB costs are difficult to predict.[3]

[1] Direct testimony of Christina E. Chard at 27:21-29:16.
[2] Direct testimony of Christina E. Chard at 27:11-14.
[3] Direct testimony of John Popiolek at 6:21-7:7.

Q. **IS DIFFICULTY IN PREDICTION A VALID REASON TO USE DEFERRED ACCOUNTING TREATMENT FOR PENSION AND OPEB EXPENSE?**

A. No. Both Dr. Chard and Mr. Popiolek state that the use of a three-year historical average of pension and OPEB expenses is not an appropriate method for determining the projected costs. Mr. Popiolek indicates that changes in economic or demographic variables used to determine pension and OPEB costs can cause annual fluctuations in costs.[4] However, Mr. Popiolek states:

> Costs are determined annually based on an actuarial valuation of a plan's participant population, its assets held for investment, and the provisions of the pension plan. Because of the long-term nature of the pension promise to employees, companies must make assumptions about future economic and demographic conditions. These assumptions are revised over time as actual experience and projections of future conditions result in revisions to the company's projected pension benefit obligation.[5]

Difficulty in prediction is not a valid reason for using a deferred accounting mechanism because much of the data relating to the plan, such as the plan's participants, demographics, plant assets, etc., are maintained by the Company's actuaries. Additionally, as Mr. Popiolek admits, assumptions, projections, and forecasting future economic activity are part of the normal process of determining pension and OPEB expenses. Hence, I believe it is possible for the Company's actuaries to make a reasonable estimate of the FPFTY pension and OPEB expenses. Instead, PAWC has focused on the reasons why the three-year average is inappropriate as the basis for requesting deferred accounting treatment. In my experience, I have seen instances where actuaries have been able to derive a reasonable estimate of future pension and OPEB expenses for ratemaking purposes. PAWC has not demonstrated that its actuary cannot produce a similar cost estimate.

As I stated above, both Dr. Chard and Mr. Popiolek are critical of the three-year historical average approach. However, authorizing the deferred accounting mechanism is

[4] Direct testimony of John Popiolek at 6:23-7:1.
[5] Direct testimony of John Popiolek at 4:14-20.

not the appropriate approach to resolve concerns about the reasonableness of the FPFTY estimate. Instead, an estimate based on actuarial principles should be explored before considering the establishment of a deferred account. Therefore, the Commission should deny the Company the authority to establish a deferred account.

Q. **DR. CHARD DISAGREES THAT THE DEFERRED ACCOUNTING MECHANISM CONSTITUTES SINGLE ISSUE RATEMAKING. PLEASE RESPOND.**

A. Dr. Chard disagrees that the deferred accounting mechanism constitutes single issue ratemaking. The rationale for her position is that the Company is not requesting recovery of these amounts at this time, and the costs would be subject to a detailed ratemaking review in the Company's next base rate case. She also cites the ability of natural gas and electric utilities to recover natural gas commodity costs, purchased power, and fuel costs, and appears to conclude that since those recovery mechanisms are not considered single issue ratemaking, the proposed deferred accounting treatment for pension and OPEB expenses also would not be single issue ratemaking.

The comparison of pension and OPEB expenses to natural gas commodity costs, fuel, and purchased power costs is not appropriate because natural gas, fuel, and purchased power are a significant component of the service/product being sold and delivered. For example, a natural gas utility will not be in business were it not for the availability of natural gas. On the other hand, pension and OPEB are costs just like any other administrative or overhead cost. In fact, numerous companies no longer offer pension benefits to new employees, yet those companies remain in operation.

Single issue ratemaking is not based on whether a cost is recovered in the current rate case or whether the cost is subject to regulatory review as Dr. Chard implies. Instead, single issue ratemaking relates to selecting a routine operating expense for special rate

recovery that is not afforded to other similar costs. In this instance, the Company is proposing that the Commission guarantees PAWC a dollar-for-dollar recovery of pension and OPEB expenses when no other routine operating expense is guaranteed such recovery. Under traditional ratemaking theory, a utility is only provided an opportunity to recover its costs. On this basis, the Company's deferred accounting proposal is unfair and inappropriate.

2. Performance-Based Compensation

Q. **PLEASE RESPOND TO MR. RUNZER'S AND MR. MUSTICH'S REBUTTAL TESTIMONY WHERE THEY DISAGREE WITH YOUR ADJUSTMENT TO PERFORMANCE-BASED COMPENSATION EXPENSE.**

A. In my direct testimony, I removed the component of the performance pay related to achievement of earnings goals because I believe the achievement of earnings goals is a benefit that is primarily targeted towards increasing shareholder value and benefiting shareholders. Therefore, these costs are not properly recoverable from ratepayers for several reasons.

The theme in Mr. Runzer's rebuttal testimony is that performance-based compensation is designed to attract, motivate, and retain employees and is market-driven. He states that it is inappropriate to disallow a component of performance-based compensation because I believe the Company's employee compensation should be structured differently. He states that I believe that performance compensation primarily benefits shareholders, but that I ignore that PAWC's compensation structure also benefits employees, and customers, by aligning employee and customer interests and attracting, motivating, and enabling the Company to retain skilled employees. However, Mr. Runzer is incorrect when he states that I ignored how PAWC's compensation structure also benefits employees and customers. He has provided no evidence where I argued that

compensation levels are too high or that performance-based compensation is ineffective. Mr. Runzer misses the point of my adjustment when he argues that the focus should be on the reasonableness of the total compensation expense.[6] The rationale of my adjustment is to assign costs to the shareholders to recognize the benefits they receive from the performance-based compensation plan and the lack of benefits to customers. Clearly, shareholders are the primary beneficiaries of performance-based compensation plans because any additional earnings are not passed back to ratepayers.

Regarding Mustich's argument that performance-based compensation is essential to financial efficiency and viability and operational success, I do not take issue with establishing a performance-based compensation plan. However, unlike the Company, my adjustment recognizes all stakeholders and apportions the costs to the stakeholders.

Q. **WHY DO YOU CONTINUE TO BELIEVE THAT YOUR ADJUSTMENT TO PERFORMANCE-BASED COMPENSATION IS REASONABLE AND APPROPRIATE, AND SHOULD BE ADOPTED BY THE COMMISSION?**

A. My adjustment to performance-based compensation is reasonable and appropriate because it is consistent with the intent of the performance-based compensation plans. This is not just my opinion, but it is also espoused by the Company. Mr. Runzer states:

> Further, as discussed in detail above and in my direct testimony, the financial metrics components of the Company's performance compensation align the interests of customers, employees, and shareholders by incentivizing employees to seek out cost savings across all areas of the business, help ensure the financial health of the business through careful cost controls, and promotes employee longevity that enables the Company to pursue the long-term best interests of our customers.[7]

Here, Mr. Runzer clearly identifies the three beneficiaries of performance-based compensation plans. In his rebuttal testimony, Mr. Runzer ignores, and does not

[6] Rebuttal Testimony of Jim Runzer at 5:15.
[7] Rebuttal testimony of Jim Runzer at 12:21-13:5.

acknowledge, the benefit shareholders receive from the performance-based compensation plans. He also does not acknowledge that, because of the benefits received from achieving performance-based goals, shareholders should be assigned a portion of the costs. Ignoring the shareholders' benefits and placing the entire burden of the costs on customers is unfair.

Q. **MR. RUNZER STATES THE PERFORMANCE COMPENSATION PLANS ARE FUNDAMENTALLY THE SAME AS THEY WERE IN PAWC'S 2023 BASE RATE PROCEEDING CLAIMING THE SAME RATIONALE THE COMMISSION USED TO APPROVE THE PERFORMANCE COMPENSATION PLANS PREVIOUSLY SHOULD APPLY TO THE PERFORMANCE COMPENSATION PLANS AT ISSUE IN THIS CASE.[8] DO YOU AGREE?**

A. No. I do not agree. To demonstrate the effectiveness of the performance-based compensation plan, especially from the customer perspective, it is important that the goals of the plan are designed to provide tangible ratepayer benefits. Despite the approval of the plan in the 2023 rate case, PAWC is seeking a rate increase approximately two years after the last rate case. This suggests that passing the costs onto ratepayers offered very little benefit to PAWC customers. Therefore, the Commission should revisit this issue and tie recovery of the performance-based compensation to the frequency of rate cases. I think it important that the Commission use its oversight authority to take another look at this issue rather than take a business-as-usual approach.

Q. **WHAT BENEFITS DO SHAREHOLDERS RECEIVE FROM PERFORMANCE-BASED COMPENSATION?**

A. The justification for the performance-based compensation is the achievement of earnings goals by getting employees to work towards managing the Company's costs. If savings are achieved, earnings will increase (assuming all else remains constant). Share prices are

[8] Rebuttal testimony of Jim Runzer at 7:9-14.

linked to earnings, therefore higher earnings drive up share prices. When share prices increase, the value of the shareholders' investment in the Company increases. In short, shareholders' wealth is impacted by the achievement of performance-based compensation. In contrast, rates paid by customers are fixed until changed by the Commission. If the performance-based compensation plan results in higher earnings, i.e., ROR, customers do not receive a rebate or a rate reduction. Hence, because of the additional benefit received by shareholders, it is appropriate for a portion of the cost of the performance-based compensation plan to be absorbed by the Company.

Another benefit received by shareholders resulting from the performance-based compensation plan relates to dividends. Consistency in achieving higher earnings could lead to higher dividends. This does not only increase current dividends (shareholder income), it also positively impacts share prices which could lead to an increase in shareholders' wealth. This is another reason it is appropriate for shareholders to absorb a portion of the performance-based compensation costs.

Q. **MR. RUNZER CITES AN INSTANCE WHERE PAWC'S TREASURY GROUP EXPLORED ALTERNATIVES TO LONG-TERM FINANCING DURING 2025 AS INTEREST RATES WERE RISING AS AN INSTANCE THAT REQUIRED CREATIVE THINKING.[9] PLEASE RESPOND.**

A. The example cited by Mr. Runzer appears to describe what a treasury operation is expected to do as part of its normal operations. Perhaps there were details that were left out, but he described what one would expect from normal treasury operations. He cites that the actions resulted in achieving lower costs for customers, but he neglected to also say that it resulted in achieving higher profits for shareholders. Based on his explanation, there does not appear to be anything spectacular that was accomplished.

[9] Rebuttal testimony of Jim Runzer at 8:7-15.

It is important that when the reviewer reads the discussion provided by Mr. Runzer, the focus should be on the framework established to reward employees. The question to be asked is, are employees being rewarded for doing normal tasks, or truly going above the normal expectations?

3. Utility System Acquisitions Transaction Costs

Q. **PLEASE RESPOND TO PAWC WITNESS JARED DEASON'S REBUTTAL TESTIMONY REGARDING TRANSACTION COSTS RELATING TO THE ACQUISITION OF UTILITY SYSTEMS.**

A. In Mr. Deason's rebuttal testimony, he identified eight system acquisitions that the Company is seeking to update the acquisition transaction costs. He identified the following systems:

Utility System	Initial Costs	Revised Costs
Audubon Water Company	$ 299,089	$ 335,230
East Dunkard Water Authority	174,008	218,580
Appalachian Utilities, Inc.	156,852	192,183
Corner Water Supply and Service Corporation	12,398	42,679
Manwalamink Water Company	118,148	125,207
Manwalamink Sewer Company	120,273	137,298
Butler Area Sewer Authority	1,291,045	1,303,262
Elizabeth Borough Municipal Authority	545,516	636,795

I have reviewed the costs listed above and the OCA will not oppose the recovery of the revised transaction and closing costs.

Q. **PAWC WITNESS DON WIECZENSKI DISAGREES WITH YOUR ADJUSTMENT TO REMOVE THE TOWAMENCIN SYSTEM TRANSACTION COSTS FROM THE COST OF SERVICE. PLEASE RESPOND.**

A. In my direct testimony, I explain my adjustment to remove the Towamencin System transaction costs from the cost of service. In short, PAWC pursued the acquisition of the Towamencin System. The transaction was withdrawn and the matter was closed. I based

my adjustment on the fact that PAWC made a business decision to pursue the acquisition of the Towamencin system, presumably, after weighing the risks. It is not uncommon for proposed mergers or business acquisitions to fall through. Essentially, this is what happened with the Towamencin system acquisition.

In Mr. Wieczenski's rebuttal testimony, he states that the costs associated with the proposed acquisition of the Towamencin System should be recovered because they were prudently incurred and would have been in the public interest. He then makes an argument that is similar to the standards the Commission uses to determine if an acquisition is in the public interest (i.e. management capability; the Commission's stated goal of consolidating and regionalizing water and wastewater systems; the benefits of greater capital investment; increased tax base of the local municipal governments; and the benefits of spreading costs over a larger customer base).

All these arguments have not been fully evaluated to determine if they are accurate. Essentially, these amount to theoretical assumptions Mr. Wieczenski believes to be true but are not rooted in facts and data. Moreover, it is inappropriate to recover costs based upon what could have happened, or hypotheticals. The facts are that these costs have not contributed to the provision of service to customers nor will they contribute to the provision of service during the FPFTY.

The most significant reason these costs should not be recovered from ratepayers is that they were not part of an acquisition that was consummated. As such they are not associated with an acquired asset, and therefore they became a period expense for the fiscal year in which they were incurred. As such, the Company may not unilaterally treat the costs as if they were a regulatory asset that is subject to recovery in a future period. I am not aware of any Commission Order that authorizes the deferral of these costs as a

regulatory asset. Therefore, for this proceeding, these are prior period costs that are not eligible for recovery.

Q. **ACCORDING TO MR. WIECZENSKI THERE WERE TWO UNFORESEEN AND EXTRAORDINARY CIRCUMSTANCES THAT OCCURRED WHILE THE TOWAMENCIN SYSTEM ACQUISITION APPLICATION TRANSACTION WAS PENDING THAT CAUSED THE TRANSACTION TO FAIL. DOES THAT JUSTIFY RECOVERY OF THE TRANSACTION COSTS?**

A. No. As I have said, virtually all business decisions contain an aspect of risk. The nature of risks is that they are not always known prior to the decision making. When the decision was made to pursue the acquisition of the Towamencin System, the ultimate risk of not succeeding should have been contemplated. I do not believe the management of PAWC is so overly confident that it did not contemplate failure when often there are stories in the financial press about mergers and acquisitions falling apart. Allowing cost recovery here would set a dangerous precedent. It would signal to PAWC, a company with an extensive history of acquisitions, and other utilities that the Commission will insulate them from the financial risks of failed utility acquisitions.

Based on the discussion above, I recommend the Commission deny the recovery of the Towamencin System acquisition costs.

Q. **IN YOUR DIRECT TESTIMONY YOU RECOMMENDED AN ADJUSTMENT TO REMOVE THE ACQUISITION ADJUSTMENT RELATED TO THE ACQUISITION OF THE AUDUBON WATER SYSTEM. DO YOU STILL RECOMMEND THE ADJUSTMENT?**

A. No. In a data request from PAWC, it came to my attention that the parties to the Audubon Water System acquisition proceeding, including the OCA, waived their rights to challenge PAWC's request to recover the acquisition premium. Based on this discovery, I have

withdrawn my adjustment to remove the Audubon Water System Acquisition Adjustment from rate base.

Q. **IN YOUR DIRECT TESTIMONY YOU RECOMMENDED AN ADJUSTMENT TO REMOVE COSTS RELATED TO THE MANWALAMINK WATER TRANSACTION COSTS – INITIAL NEXTERA BID. DO YOU STILL RECOMMEND THE ADJUSTMENT?**

A. No. In a data request from PAWC, I indicated that the adjustment was included in error. I have withdrawn the adjustment.

Q. **PLEASE RESPOND TO MR. WIECZENSKI'S REBUTTAL ADDRESSING YOUR MANWALAMINK ACQUISITION ADJUSTMENT.**

A. In my direct testimony, I based my adjustment to remove the Manwalamink Water and Sewer Acquisition adjustments from rate base based upon the reasonableness of the purchase price and PAWC's claim that the Manwalamink was not providing safe, reasonable and efficient service prior to the acquisition.

Regarding the reasonableness of the purchase price, Mr. Wieczenski compares the purchase price per customer ("PP/C") of the Manwalamink transaction to the average PP/C of twelve water and wastewater systems PAWC has acquired. Because the PP/C of Manwalamink was lower than the average PP/C, Mr. Wieczenski concludes that the purchase price for Manwalamink is reasonable. However, it is unclear what benefit PAWC received for paying a 111% premium for the Manwalamink systems. The general logic behind paying a premium in an acquisition is the ability to achieve higher earnings or customer growth. However, PAWC's own analysis shows that, as proposed in the acquisition proceeding, PAWC would incur a revenue deficiency of $325,000 at present rates for water services and a revenue deficiency of $187,000 for sewer services.[10] Hence,

[10] Surrebuttal Testimony of Lafayette K. Morgan, Jr., Docket Nos. A-2023-3044418, A-2023-3044419, A-2023-3044421 and A-2023-3044422 at 13:13-14.

just because the PP/C for this acquisition is less than the average does not mean it is reasonable to allow PAWC to include the acquisition adjustment in rate base. Given that the Company was unable to demonstrate the value received for the premium paid, I recommend the Commission deny recovery of the acquisition premium.

With respect to the claims that Manwalamink was not providing adequate, efficient, safe and reasonable service and facilities, the majority of evidence provided by PAWC for water operations involved Manwalamink's failure to monitor or report violations occurring during 2020, 2021, 2022 and 2023, and only one 2024 violation.[11] While these reporting violations may be serious, PAWC has not provided any evidence showing customer complaints for lack of service or discolored water. Similarly, the sewer violations were environmental related and do not appear to impact customer service. Again, I acknowledge that environmental violations are serious, but I do not believe the violations justify recovery of the acquisition adjustments. It is important to keep in mind that this is information that should have been reviewed by PAWC before offering its purchase price. Moreover, these violations were not the drivers of the sale of Manwalamink. In other words, Manwalamink did not approach PAWC to acquire it because of the violations. As I discuss in my direct testimony, the sale was driven due to the ages of the owners and operator.

Q. **DO YOU AGREE WITH MR. WIECZENSKI'S ASSERTION THAT YOUR ARGUMENT THAT NO PARTY TO THE ACQUISITION PROCEEDING CLAIMED THAT MANWALAMINK FAILED TO PROVIDE ADEQUATE, EFFICIENT, SAFE AND REASONABLE SERVICE AND FACILITIES IS A DISTRACTION?[12]**

A. No. In that section of his rebuttal testimony, Mr. Wieczenski makes the following argument:

[11] PAWC Exhibit MJG-3.
[12] Rebuttal testimony of Don Wieczenski at 10:18-20.

> In contrast, when a utility requests an acquisition adjustment pursuant to Section 1327, the applicable legal test requires that the requesting utility prove that the acquired system was not providing adequate, efficient, safe and reasonable service prior to the acquisition. It is illogical to argue that a party's request for an acquisition adjustment in a rate case should be denied because that party did not address an irrelevant issue in the acquisition proceeding.[13]

In my opinion, an acquisition proceeding is where the utility that is acquiring another makes its case to justify why the acquisition should be approved. If the utility being acquired is not providing adequate, efficient, safe and reasonable service, evidence showing that would be relevant to convey to the Commission to justify approval of the acquisition. Hence, I disagree—especially in the case of the Manwalamink acquisition—that it was irrelevant because, in that proceeding, I recommended that the Commission order that a future acquisition adjustment should be denied.[14]

Q. **WHAT WAS PAWC'S RESPONSE TO YOUR RECOMMENDATION THAT RECOVERY OF THE ACQUISITION ADJUSTMENT (THE EXCESS OVER BOOK VALUE) BE DENIED?**

A. In its rebuttal testimony, PAWC stated:

> The OCA's proposal to decide in this proceeding a limitation on the future-proposed rate base is unnecessary. It is unnecessary because the Commission is able to review a rate base proposal when the Company is actually requesting an addition to rate base, i.e., within the context of a base rate case.[15]

Clearly, PAWC was aware of the OCA's position on Acquisition Adjustment recovery, and Mr. Wieczenski is incorrect to now claim recovery of the Acquisition Adjustment was irrelevant during the acquisition proceeding.

[13] Rebuttal testimony of Don Wieczenski at 11:1-6.
[14] Direct Testimony of Lafayette K. Morgan, Jr. at 23:16. Docket Nos.:A-2023-3044418, A-2023-3044419, A-2023-3044421, A-2023-3044422.
[15] Rebuttal Testimony of Ashley E. Everette at 4:20-23. Docket Nos.:A-2023-3044418, A-2023-3044419, A-2023-3044421, A-2023-3044422.

Q. **BEGINNING ON PAGE 11 THROUGH 12 OF MR. WIECZENSKI'S REBUTTAL TESTIMONY, HE ARGUES THAT MANWALAMINK DID NOT PROVIDE SAFE, REASONABLE, ADEQUATE AND EFFICIENT WATER AND WASTEWATER SERVICE. PLEASE RESPOND TO MR. WIECZENSKI'S ASSERTIONS IN HIS REBUTTAL TESTIMONY.**

A. Mr. Wieczenski's is being hyperbolic with his assertions. He states there were 36 violations of the Safe Drinking Water Act from 2020 to February 2024. To put this in perspective, the chart below summarizes the Manwalamink water system violations by year as presented in PAWC Exhibit DW-3R, Page 34 of 38.

Manwalamink Water System Violations

Year	# of Violations
2020	4
2021	17
2022	6
2023	5
2024	1

Clearly there were violations. The worst year was 2021, but as seen above, Manwalamink improved its compliance by 2024, the year of the acquisition proceeding. For sewer operation the data from PAWC Exhibit DW-3R, page 37 of 38 is presented in the chart below.

Manwalamink Sewer System Violations

Year	# of Violations
2021	2
2022	2
2023	4

To be clear, I am not claiming that violations are good or inconsequential. But, to provide a large number of violations, without context or perspective, and conclude that Manwalamink was not providing adequate, efficient, safe and reasonable service when the water and sewer systems were acquired is misleading. Beginning at page 12, line 25, Mr. Wieczenski quotes the Commission's Order where the Commission acknowledged that the violations focused mostly on monitoring and reporting activities. As can be seen from the chart with the water operations violations, Manwalamink apparently took the violations seriously and rectified the problem.

The admission by Manwalamink witness Shebelsky of the challenges faced by the utility in the acquisition proceeding does not equate to not providing adequate, efficient, safe and reasonable service. Instead, it explains and supports the decision to sell the utility.

Q. **PLEASE RESPOND TO MR. WIECZENSKI'S REBUTTAL TESTIMONY REFERENCING ANY ADJUSTMENT TO FARMINGTON WASTEWATER SYSTEM.**

A. Mr. Wieczenski states that the chart presented on page 9 of my direct testimony indicates that I have adjusted the acquisition adjustment related to the Farmington township wastewater system. Mr. Wieczenski states that PAWC is not requesting recovery of any acquisition adjustment related to the Farmington Township wastewater system. Therefore, any adjustment related to the Farmington Township wastewater system acquisition adjustment has been removed from the cost of service.

4. <u>Labor Vacancy Rate Adjustment</u>

Q. **PAWC WITNESS LORI N. O'MALLEY DISAGREES WITH YOUR ADJUSTMENT TO REFLECT AN EMPLOYEE VACANCY RATE. PLEASE RESPOND TO HER REBUTTAL TESTIMONY.**

A. Ms. O'Malley argues that my adjustment is inaccurate and overstated because it is based on the total claimed FPFTY salaries and wages amount. Because the Company now accepts the employee vacancy adjustment proposed by I&E witness Okum, I have reviewed their proposal and will adopt it instead. Accordingly, I withdraw my original adjustment.

5. Group Insurance Expense

Q. **PLEASE RESPOND TO MS. O'MALLEY'S DISAGREEMENT WITH YOUR ADJUSTMENT TO GROUP INSURANCE EXPENSE.**

A. In my direct testimony, I recommended an adjustment to Group Insurance expense to reflect the 2026 group insurance rates because they are the most recent, known rates.

Ms. O'Malley disagrees with me stating that it is common to use averages to normalize costs that fluctuate from year to year to forecast them for ratemaking purposes. According to her, "[t]he Company [] used the three-year average percentage change in its last base rate case [for this adjustment] (Docket Nos. R-2023-3043189 and R-2023-3043190), and the adjustment was accepted by OCA."[16]

However, that is not the approach used by the Company in this proceeding. According to the Company, "[t]he adjustment of the group insurance cost is based on the January 2026 premiums annualized for the future test year number of employees, less the annualized employee contribution, and adjusted for the portion not charged to operations. The fully projected future test year was developed by adjusting the annualized 2026 amount by a 3 year average of 3.74%."[17] In that workpaper the 3.74% was applied as a growth rate, not a normalizing adjustment. It is my opinion that it is inappropriate to use the historical change in insurance costs as a basis for insurance projections because insurance projections should be based on actuarial methods. The past historical changes in costs could have been affected by the population size of the group, demographics, or events in the economy. As

[16] Rebuttal testimony of Lori N. O'Malley at 6:7-9.
[17] Workpaper 4d Group Insurance Adjustment.xls, 3A Water tab, Excel line 12.

a result, I maintain that FPFTY group insurance expense should be based on the most recent, actual insurance rates. Therefore, I recommend the Commission reject PAWC's group insurance claim.

6. Transportation Expense

Q. **PLEASE RESPOND TO MS. O'MALLEY'S REBUTTAL TESTIMONY ADDRESSING YOUR ADJUSTMENT TO TRANSPORTATION EXPENSE.**

A. In my direct testimony, I recommend an adjustment to transportation expense that removes the inflation escalation effect from the projected FPFTY expenses. Ms. O'Malley states that she partially agrees with my adjustment. However, she states that fuel and maintenance expenses fluctuate from year to year, so a three-year average inflation factor is generally appropriate to project future costs. She indicates that the Company used the same methodology in its last base rate case (Docket Nos. R-2023-3043189 and R-2023-3043190), and the adjustment was accepted by I&E and OCA. She explains that as of June 2025, CPI Transportation Services has decreased. Therefore, recognizing the change in the inflation factor, the Company has updated its claimed transportation expense by applying the June 2025 inflation rate of 3.11% instead of the three-year average of 6.94%.

I continue to maintain my adjustment to remove the inflation escalation as recommended in my direct testimony. As demonstrated in my direct testimony, past inflation is not a good predictor of future inflation rates, and the Company's historical data does not follow the inflation trend.[18] Therefore, the Commission should deny the inflation adjustment included in the Company's transportation expense adjustment.

7. Third Party Call Centers

Q. **OCA WITNESS ALEXANDER RECOMMENDS A 10% REDUCTION IN PAWC'S CLAIMED EXPENSE FOR THIRD PARTY CALL CENTERS. HAVE YOU**

[18] Direct Testimony of Lafayette K. Morgan, Jr. at 24:3-15.

INCLUDED HER RECOMMENDED ADJUSTMENT IN YOUR SURREBUTTAL REVENUE REQUIREMENT?

A. Yes. Previously, I indicated that the 10% reduction in third party call center expenses recommended by Ms. Alexander was not included in my calculation of the OCA's revenue requirement.[19] I have now updated my revenue requirement recommendation to reflect the adjustment proposed by Ms. Alexander. According to the rebuttal testimony of PAWC witness Chard, PAWC is claiming $2,836,506 for expenses associated with third-party call handling agencies in the FPFTY. Ten percent of that amount equates to $283,651, which is the amount by which I have reduced operating expenses. I then applied the reduction in expenses to each of the operations presented on Exhibit No. 3-A, page A, prorated based upon the revenues of each of the operations at present rates.

Q. **DOES THIS COMPLETE YOUR SURREBUTTAL TESTIMONY?**

A. Yes, it does.

[19] Response to PAWC-OCA-I-8.

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	**:**	
	:	**Docket Nos. R-2025-3057983**
v.	**:**	**R-2025-3058051**
	:	
Pennsylvania American Water Company	**:**	

EXHIBITS ACCOMPANYING THE SURREBUTTAL TESTIMONY
OF
LAFAYETTE K. MORGAN, JR.

ON BEHALF OF THE
PENNSYLVANIA OFFICE OF CONSUMER ADVOCATE

Pennsylvania-American Water Company
Summary
For the Future Test Year Ended June 30, 2027

Line No.	Description	Total Company	Water Operations	Wastewater SSS General Operations	BASA Wastewater Operations	CSS Wastewater Operations	Elizabeth Borough CSS Wastewater Operations
1	Present Rate Revenue	1,162,135,869	$ 953,098,389	$ 108,665,761	$ 12,761,096	$ 85,843,356	$ 1,767,267
2	Additional Revenue Requirement	(14,951,593)	(39,142,174)	2,834,013	20,545,055	(1,941,664)	2,753,177
3	Act 11 - Wastewater Allocation	-	53,010,182	(12,710,621)	(30,280,040)	(7,062,475)	(2,957,133)
4	Proposed Revenues	$ 1,147,184,276	$ 966,966,397	$ 98,789,153	$ 3,026,111	$ 76,839,217	$ 1,563,311
5							
6	Rate Increase/ (Decrease)	(14,951,593)	13,868,008	(9,876,608)	(9,734,985)	(9,004,139)	(203,956)
7		-1.3%	1.5%	-9.1%	-76.3%	-10.5%	-11.5%

Pennsylvania-American Water Company
Water Operations
Cost of Service
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Company Amounts at Present Rates [1/]	OCA Adjustments	Amounts After OCA Adjustments	Pro Forma Change in Revenues	Amounts After Change in Revenues
1	Total Operating Revenues	$ 953,098,389	$ -	$ 953,098,389	$ (39,142,174)	$ 913,956,215
2						
3	Operating Expenses					
4	Operation and Maintenance	281,915,131	(3,450,744)	278,464,387	(429,390)	278,034,997
5	Depreciation	227,388,538	(36,952,810)	190,435,728		190,435,728
6	Amortizations	1,282,111	(179,026)	1,103,085	-	1,103,085
7	Total Operating Expenses	$ 510,585,780	$ (40,582,580)	$ 470,003,200	$ (429,390)	$ 469,573,810
8						
9	Operating Income Before Income Taxes	$ 442,512,609	$ 40,582,580	$ 483,095,189	$ (38,712,784)	$ 444,382,405
10						
11	Taxes					
12	Taxes Other Than Income	$ 17,174,070	$ (199,646)	$ 16,974,424	$ (285,203)	$ 16,689,221
13	Federal Income Tax	46,994,519	7,970,350	54,964,869	(7,505,714)	47,459,155
14	State Income Tax	19,888,012	2,852,369	22,740,381	(2,686,088)	20,054,293
15	Deferred Income Taxes	(233,592)		(233,592)	-	(233,592)
16	Net Income	$ 358,689,600	$ 29,959,508	$ 388,649,108	$ (28,235,779)	$ 360,413,329
17						
18	Rate Base	$ 5,179,526,769		$ 5,178,352,411		$ 5,178,352,411
19						
20	Rate of Return	6.93%		7.51%		6.96%
21						

Source: PAWC Exhibit 3-A Revised, Water Operations, Page 1R.

Pennsylvania-American Water Company
Water Operations
Summary of Revenue Increase at OCA Rate of Return
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description		Amount
1	Adjusted Rate Base		$ 5,178,352,411
2	Required Rate of Return		6.96%
3			
4	Net Operating Income Required		$ 360,413,328
5	Net Operating Income at Present Rates		388,649,108
6			
7	Income Deficiency/(Surplus)		$ (28,235,780)
8	Revenue Multiplier		1.386261
9			
10	Required Change in Company Revenue		$ (39,142,174)
11			
12	Proposed Revenue Change		$ (39,142,174)
13	Less: Uncollectibles	1.0970%	$ (429,390)
14	Net of Uncollectibles		$ (38,712,784)
15	Less: Regulatory Fees	0.7367%	$ (285,203)
16	Net of Regulatory Fees		$ (38,427,581)
17	Less: State Income Tax @ 6.99%	6.99%	$ (2,686,088)
18	Income Before Federal Taxes		$ (35,741,493)
19	Federal Income Tax @ 21.0%	21.00%	(7,505,714)
20	Net Income (Surplus)/Deficiency		$ (28,235,779)

Pennsylvania-American Water Company
Water Operations
Summary of Rate Base
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount per Company Filing	OCA Adjustments	Amount After OCA Adjustments
1	Utility Plant			
2	Non-Depreciable Plant	$ 24,847,632	$ -	$ 24,847,632
3	Depreciable Plant	8,267,302,034	-	8,267,302,034
4	Total Utility Plant	$ 8,292,149,666	$ -	$ 8,292,149,666
5				
6	Utility Plant Deductions			
7	Contributions in Aid of Construction	309,073,376		309,073,376
8	Customer Advances for Construction	72,509,763		72,509,763
9	Excluded Property	1,558,014		1,558,014
10	Total Utility Plant Deductions	$ 383,141,153	$ -	$ 383,141,153
11				
12	Net Plant	$ 7,909,008,513	-	$ 7,909,008,513
13				
14	Accumulated Depreciation	1,630,028,418		1,630,028,418
15	Depreciated Utility Plant in Service	$ 6,278,980,095	$ -	$ 6,278,980,095
16				
17	Additions to Net Plant			
18	Materials and Supplies	23,636,767		23,636,767
19	Cash Working Capital - Expenses	24,869,831		24,869,831
20	Accrued and Prepaid Taxes	5,633,346		5,633,346
21	Acquisition and Adjustments	9,903,781	$ (1,174,358)	8,729,423
22	Other Additions	2,612,252		2,612,252
23	Total Additions	$ 66,655,977	$ (1,174,358)	$ 65,481,619
24	Deductions to Net Plant			
25	Cash Working Capital - Int and Div	13,636,915		13,636,915
26	Unamortized ITC (3%)	189,479		189,479
27	Extension Deposits in Suspense	38,165		38,165
28	Citizens Acquisition of CIAC & CAC, per Settlement	16,890,221		16,890,221
29	TCJA - Stub Period	-		-
30	Other Deductions	376,128		376,128
31	Deferred Taxes	1,134,978,395	-	1,134,978,395
32	Total Deductions	$ 1,166,109,303	$ -	$ 1,166,109,303
33	Total Rate Base	$ 5,179,526,769	$ (1,174,358)	$ 5,178,352,411

Source: Company Exhibit 3-A, Water Operations, Page 26.

Pennsylvania-American Water Company
Water Operations
Summary of Rate Base Adjustments
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Source	Amount
1	Rate Base per Company Filing		$ 5,179,526,769
2			
3	OCA Adjustments:		
4	Remove Water Acquisition Adjustments		(1,174,358)
5			
6			
7	Total Ratemaking Adjustments		$ (1,174,358)
8			
9	Adjusted Rate Base per OCA		$ 5,178,352,411

Pennsylvania-American Water Company
Water Operations
Summary of Adjustments to Operating Income
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Operating Revenues	Operation and Maintenance	Depreciation Expense	Amortization Expense	Taxes Other Than Income	State Income Tax	Federal Income Tax	Operating Income
1	Amount per Company	$953,098,389	$281,915,131	$227,388,538	$ 1,282,111	$17,174,070	$19,888,012	$46,760,927	$ 358,689,600
2									
3	OCA Adjustments:								
4	Salaries and Wages	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
5	Annual Performance Pay	-	(2,604,650)	-	-	(199,646)	196,020	547,738	2,060,538
6	Group Insurance	-	(435,915)	-	-	-	30,470	85,143	320,301
7	Transportation Expense	-	(177,557)	-		-	12,411	34,681	130,465
8	Adjustment to Acquisition Amortization	-	-	-	(118,513)	-	8,284	23,148	87,081
9	Transaction Costs Amortization	-	-	-	(60,513)	-	4,230	11,819	44,464
10	Remove PURTA	-	-	-	-	-	-	-	-
11	Change in Depreciation Rates	-	-	(36,952,810)	-	-	2,583,001	7,217,660	27,152,149
12	Interest Synchronization	-	-	-	-	-	1,691	4,725	(6,416)
13	Third Party Call Centers	-	(232,622)	-	-	-	16,260	45,436	170,926
14									
15	Total OCA Adjustments	$ -	$ (3,450,744)	$ (36,952,810)	$ (179,026)	$ (199,646)	$ 2,852,369	$ 7,970,350	$ 29,959,508
16									
17	Total Adjusted Income	$953,098,389	$278,464,387	$190,435,728	$ 1,103,085	$16,974,424	$49,613,296	$27,858,362	$ 388,649,108

Pennsylvania-American Water Company
Water Operations
Adjustment to Salaries and Wages Expense
For the Fully Projected Future Test Year Ending June 30, 2027

	2027	Budgeted Number of Employees [1/]	Average Salary And Wages per Employee	Number of Employees Adjusted for Vacancy	Adjusted FPFTY Salaries & Wages	Adjustment to Salaries & Wages	Budgeted Positions Filled Rate
	(a)	(b)	(c)=a/b	(d)=b X f	(e)=c X d	(f)=e-a	(f)
Water Operations							
Non-Collective Bargaining Unit Salary	$34,519,930						
Collective Bargaining Unit	52,644,229						
Non-Collective Bargaining Unit Hourly	18,426,280						
Total	$105,590,439	1,068	$98,867.45	1,068	$105,590,439	$0	98.2%
Payroll Tax Effect (@7.65%)						$0	
Wastewater SSS General Operations							
Non-Collective Bargaining Unit Salary	$1,494,355						
Collective Bargaining Unit	1,503,855						
Non-Collective Bargaining Unit Hourly	3,864,243						
Total	$6,862,453	79	$86,866.49	79	$6,862,453	$0	97.3%
Payroll Tax Effect (@7.65%)						$0	
BASA WW Operations							
Non-Collective Bargaining Unit Salary	$471,557						
Collective Bargaining Unit	2,230,662						
Non-Collective Bargaining Unit Hourly	63,058						
Total	$2,765,276	29	$95,354.36	29	$2,765,276	$0	99.6%
Payroll Tax Effect (@7.65%)						$0	
Wastewater CSS Operations							
Non-Collective Bargaining Unit Salary	$1,112,821						
Collective Bargaining Unit	7,611,368						
Non-Collective Bargaining Unit Hourly	108,323						
Total	$8,832,512	99	$89,443.16	99	$8,832,512	$0	99.6%
Payroll Tax Effect (@7.65%)						$0	

Notes
[1/] I&E RE-018-D_Attachment 1

Pennsylvania-American Water Company
Water Operations
Adjustment to Annual Performance Pay
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount [1/]	O&M Percentage	Earnings-Related Percentage [2/]	Adjustment to Annual Performance Pay
		(a)		(b)	(c)
1	**Water Operations**				
2	Non-Collective Bargaining Unit Salary	$6,213,845			
3	Collective Bargaining Unit	1,706,222			
4	Non-Collective Bargaining Unit Hourly	1,188,694			
5	Total	$9,108,761	57%	50%	($2,604,650)
6	Payroll Tax Effect (@7.65%)				($199,646)
7	**Wastewater SSS General Operations**				
8	Non-Collective Bargaining Unit Salary	$195,340			
9	Collective Bargaining Unit	52,940			
10	Non-Collective Bargaining Unit Hourly	261,680			
11	Total	$509,960	80%	50%	($204,545)
12	Payroll Tax Effect (@7.65%)				($15,678)
13	**BASA WW Operations**				
14	Non-Collective Bargaining Unit Salary	$61,553			
15	Collective Bargaining Unit	84,046			
16	Non-Collective Bargaining Unit Hourly	4,414			
17	Total	$150,013	80%	50%	($60,170)
18	Payroll Tax Effect (@7.65%)				($4,612)
19	**Wastewater CSS Operations**				
20	Non-Collective Bargaining Unit Salary	$141,082			
21	Collective Bargaining Unit	253,139			
22	Non-Collective Bargaining Unit Hourly	12,994			
23	Total	$407,215	80%	1%	($3,267)
	Payroll Tax Effect (@7.65%)				($250)

Notes
[1/] EXHIBIT NO. 3-B, Page 62.
[2/] FR III.22

Pennsylvania-American Water Company
Water Operations
Adjustment to Group Insurance Expense
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount
	Water Operations	
1	PAWC Pro forma Adjustment to Group Insurance Expense	$ 435,915 [1/]
2		
3	Adjustment to Insurance Escalation	$(435,915)
4		
5	Wastewater SS Operations	
6	PAWC Pro forma Adjustment to Group Insurance Expense	$ 46,661 [2/]
7		
8	Adjustment to Insurance Escalation	$ (46,661)
9		
10	BASA WW Operations	
11	PAWC Pro forma Adjustment to Group Insurance Expense	$ 17,770 [3/]
12		
13	Adjustment to Remove Insurance Escalation	$ (17,770)
14		
15	Wastewater CSS Operations	
16	PAWC Pro forma Adjustment to Group Insurance Expense	$ 55,883 [4/]
17		
18	Adjustment to Remove Insurance Escalation	$ (55,883)

Notes:
[1/] PAWC Exhibit No. 3A, Page 49.
[2/] PAWC Exhibit No. 3A, Page 111.
[3/] PAWC Exhibit No. 3A, Page 159.
[4/] PAWC Exhibit No. 3A, Page 208.

Docket No. R-2025-3057983 (Water)
& R-2025-3058051 (Wastewater)
Exhibit LKM-7W-SR

Pennsylvania-American Water Company
Water Operations
Adjustment to Transportation Expense
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount
1	**Water Operations**	
2	OCA FPFTY Transportation Expenses	$ 2,917,533
3	PAWC FPFTY Transportation Expenses	3,095,090
4	Adjustment to Transportation Expenses	$ (177,557)
5		
6		
7	**Wastewater SSS General Operations**	
8	OCA FPFTY Transportation Expenses	$ 148,752
9	PAWC FPFTY Transportation Expenses	157,572
10	Adjustment to Transportation Expenses	$ (8,820)
11		
12		
13	**BASA WW Operations**	
14	OCA FPFTY Transportation Expenses	$ 54,333
15	PAWC FPFTY Transportation Expenses	57,569
16	Adjustment to Transportation Expenses	$ (3,236)
17		
18		
19	**Wastewater CSS Operations**	
20	OCA FPFTY Transportation Expenses	$ 389,061
21	PAWC FPFTY Transportation Expenses	412,698
22	Adjustment to Transportation Expenses	$ (23,637)

Pennsylvania-American Water Company
Water Operations
Adjustment to Acquisition and Transaction Costs
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Rate Base Amount		Annual Amortization	
1	Water Acquisition Adjustments				
2	Farmington Township (Water)	$ 123,028	1/	$ 12,416	1/
3	Manwalamink Water	1,051,330	1/	106,097	1/
4		$ 1,174,358		$ 118,513	
5	Sewer Acquisition Adjustments				
6	Manwalamink Wastewater	$ 961,320	2/	$ 97,014	2/
7	Farmington Township (Wastewater)	-		-	
8		$ 961,320		$ 97,014	
9	Transaction Costs				
10	Manwalamink Water Transactions Costs - Initial Nextera Bid			$ -	
11	Towamencin Township			60,513	2/
12				$ 60,513	

Notes
1/ PAWC Exhibit No.3-A Revised, Page 37R.
2/ PAWC Exhibit No.3-A Revised, Page 104R.

Docket No. R-2025-3057983 (Water)
& R-2025-3058051 (Wastewater)
Exhibit LKM-9W-SR

Pennsylvania-American Water Company
Water Operations
Adjustment to Remove PURTA Expense
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount
	Water Operations	
1	Total PURTA	$ - [1/]
2		
3	Adjustment to Taxes Other Than Income	$ -
4		

Note:
[1/] PAWC Exhibit No. 3A, page 68.

Pennsylvania-American Water Company
Water Operations
Interest Synchronization Adjustment
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount	
1	Company Rate Base	$ 5,178,352,411	1/
2	Weighted Cost of Debt	2.060%	2/
3	Adjusted Interest Deduction	$ 106,674,060	
4	Interest Deduction Per Company	106,698,251	3/
5	Adjustment to Synchronize Interest Expense	$ (24,191)	
6	Effective State Income Tax Rate	6.99%	
7	Adjustment to State Income Taxes	$ 1,691	
8	Federal Income Tax Base	$ (22,500)	
9	Federal Income Tax Rate	21.00%	
10	Adjustment to Federal Income Taxes	$ 4,725	

Notes:
1/ Exhibit LKM-2, Page 1.
2/ Exhibit LKM-11W-SR
3/ Exhibit No. 3A Revised, Page 72

Pennsylvania-American Water Company
Water Operations
Calculation of Rate of Return
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Capitalization Ratio	Cost Rate	Weighted Cost
1	Debt	43.70%	4.71%	2.06%
2	Prefered Stock	0.00%	9.71%	0.00%
3	Common Stock	56.30%	8.70%	4.90%
4				
5	Total	100.00%		6.96%

Source:
Recommended by OCA witness Garrett

Pennsylvania-American Water Company
Water Operations
Adjustment to Third-Parties Call Center Expenses
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Apportionment Factor	Amount
1	Total Third Parties Call Center Expenses		$ 2,836,506 [1/]
2	OCA Witness Alexander Recommended Adjustment (10%)		($283,651)
3			
4	**Water Operations**		
5	Total Third Parties Call Center Expenses Adjustment	82.01%	$ (232,622)
6			
7	**Wastewater SSS General Operations**		
8	Total Third Parties Call Center Expenses Adjustment	9.35%	$ (26,521)
9			
10	**BASA WW Operations**		
11	Total Third Parties Call Center Expenses Adjustment	1.10%	$ (3,120)
12			
13	**Wastewater CSS Operations**		
14	Total Third Parties Call Center Expenses Adjustment	7.39%	$ (20,962)
15			
16	**Elizabeth Borough Operations**		
17	Total Third Parties Call Center Expenses Adjustment	0.15%	$ (425)
18			
19	Total	100%	$ (283,650)

Notes
[1/] PAWC Witness Chard Rebuttal Testimony at 20:11.

Pennsylvania-American Water Company
Wastewater SSS Operations
Cost of Service
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Company Amounts at Present Rates [1/]	OCA Adjustments	Amounts After OCA Adjustments	Pro Forma Change in Revenues	Amounts After Change in Revenues
1	Total Operating Revenues	$ 108,665,761	$ -	$ 108,665,761	$ 2,834,013	$ 111,499,774
2						
3	Operating Expenses					
4	Operation and Maintenance	$ 29,370,450	$ (286,547)	29,083,903	31,089	29,114,992
5	Depreciation	28,338,641	(5,801,678)	22,536,963	-	22,536,963
6	Amortizations	256,872	(157,527)	99,345	-	99,345
	Total Operating Expenses	57,965,963	(6,245,752)	$ 51,720,211	$ 31,089	$ 51,751,300
7	Taxes Other Than Income					
8	Local Property And Miscellaneous	1,251,643	-	$ 1,251,643	$ -	$ 1,251,643
9	Federal Environmental Tax	-	-	-	-	-
10	Public Utility Realty Taxes	-	-	-	-	-
11	Payroll Taxes	463,069	($15,678)	447,391	-	447,391
12	General Assessment	776,678	-	776,678	20,650	797,328
13	Other Taxes and Licenses	-	-	-	-	-
14	Total Taxes Other Than Income	2,491,390	(15,678)	$ 2,475,712	$ 20,650	$ 2,496,362
15	Income Taxes					
16	Federal Income Tax	8,196,101	1,226,951	$ 9,423,052	$ 543,437	$ 9,966,489
17	State Income Tax	3,141,738	439,092	3,580,830	194,481	3,775,311
18	Deferred Income Taxes	-	-	-	-	-
19						
20	Total Operating Revenue Deductions	71,795,192	(4,595,388)	$ 67,199,804	$ 789,657	$ 67,989,461
21						
22	Net Income	$ 36,870,569	$ 4,595,388	41,465,957	2,044,356	43,510,313
23						
24	Rate Base	$ 661,208,859		$ 660,247,539		$ 660,247,539
25						
26	Rate of Return	5.58%		6.28%		6.59%

Source: PAWC Exhibit 3-A Revised, Water Operations, Page 75R.

Pennsylvania-American Water Company
Wastewater SSS Operations
Summary of Revenue Increase at OCA Rate of Return
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description		Amount
1	Adjusted Rate Base		$ 660,247,539
2	Required Rate of Return		6.59%
3			
4	Net Operating Income Required		43,510,313
5	Net Operating Income at Present Rates		41,465,957
6			
7	Income Deficiency/(Surplus)		2,044,356
8	Revenue Multiplier		1.386261
9			
10	Required Change in Company Revenue		$ 2,834,013
11			
12	Proposed Revenue Change		$ 2,834,013
13	Less: Uncollectibles	1.097%	$ 31,089
14	Net of Uncollectibles		$ 2,802,924
15	Less: Regulatory Fees	0.7367%	$ 20,650
16	Net of Regulatory Fees		$ 2,782,274
17	Less: State Income Tax @ 6.99%	6.99%	$ 194,481
18	Income Before Federal Taxes		$ 2,587,793
19	Federal Income Tax @ 21.0%	21.00%	543,437
20	Net Income (Surplus)/Deficiency		$ 2,044,356

Pennsylvania-American Water Company
Wastewater SSS Operations
Summary of Rate Base
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount per Company Filing	OCA Adjustments	Amount After OCA Adjustments
1	Utility Plant			
2	Non-Depreciable Plant	$ 16,212,406		$ 16,212,406
3	Depreciable Plant	1,062,716,141		1,062,716,141
4	Total Utility Plant	$ 1,078,928,547	$ -	$ 1,078,928,547
5				
6	Utility Plant Deductions			
7	Contributions in Aid of Construction	52,292,101		52,292,101
8	Customer Advances for Construction	1,543,112		1,543,112
9	Excluded Property	-		-
10	Total Utility Plant Deductions	$ 53,835,213	$ -	$ 53,835,213
11				
12	Net Plant	$ 1,025,093,334	-	$ 1,025,093,334
13				
14	Accumulated Depreciation	293,111,426		293,111,426
15	Depreciated Utility Plant in Service	$ 731,981,908	$ -	$ 731,981,908
16	Additions to Net Plant			
17	Materials and Supplies	383,143		383,143
18	Cash Working Capital - Expenses	2,269,221		2,269,221
19	Accrued and Prepaid Taxes	926,155		926,155
20	Acquisition and Adjustments	4,659,509	$ (961,320)	3,698,189
21	Other Additions	-		-
22	Total Additions	$ 8,238,028	$ (961,320)	$ 7,276,708
23	Deductions to Net Plant			
24	Cash Working Capital - Int and Div	1,783,103		1,783,103
25	Unamortized ITC (3%)	-		-
26	Extension Deposits in Suspense	-		-
27	Citizens Acquisition of CIAC & CAC, per Settlement	-		-
28	TCJA - Stub Period	-		-
29	Other Deductions	-		-
30	Deferred Taxes	77,227,974	-	77,227,974
31	Total Deductions	$ 79,011,077	$ -	$ 79,011,077
32				
33	Total Rate Base	$ 661,208,859	$ (961,320)	$ 660,247,539

Source: Company Exhibit 3-A, Wastewater SSS General Operations, Page 94.

Pennsylvania-American Water Company
Wastewater SSS Operations
Summary of Rate Base Adjustments
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Source	Amount
1	Rate Base per Company Filing		$ 661,208,859
2			
3	OCA Adjustments:		
4	Remove Sewer Acquisition Adjustment		(961,320)
5			
6			
7	Total Ratemaking Adjustments		$ (961,320)
8			
9	Adjusted Rate Base per OCA		$ 660,247,539

Pennsylvania-American Water Company
Wastewater SSS Operations
Summary of Adjustments to Operating Income
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Operating Revenues	Operation and Maintenance	Depreciation	Amortizations	Taxes Other Than Income	State Income Tax	Federal Income Tax	Operating Income
1	Amount per Company	$ 108,665,761	$ 29,370,450	$ 28,338,641	$ 256,872	$ 2,491,390	$ 3,141,738	$ 8,196,101	$ 36,870,569
2									
3	OCA Adjustments:								
4	Salaries and Wages	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
5	Annual Performance Pay	-	(204,545)	-	-	(15,678)	15,394	43,014	161,815
6	Group Insurance	-	(46,661)	-	-	-	3,262	9,114	34,286
7	Transportation	-	(8,820)	-	-	-	617	1,723	6,481
8	Acquisition Amortization	-	-	-	(157,527)	-	11,011	30,768	115,748
9	Change in Depreciation Rates	-	-	(5,801,678)	-	-	405,537	1,133,190	4,262,951
10	Interest Synchronization	-	-	-	-	-	1,418	3,962	(5,380)
11	Third Party Call Centers	-	(26,521)	-	-	-	1,854	5,180	19,487
12									
13	Total OCA Adjustments	$ -	$ (286,547)	$ (5,801,678)	$ (157,527)	$ (15,678)	$ 439,092	$ 1,226,951	$ 4,595,388
14									
15	Total Adjusted Income	$ 108,665,761	$ 29,083,903	$ 22,536,963	$ 99,345	$ 2,475,712	$ 8,635,193	$ 4,368,689	$ 41,465,957

Pennsylvania-American Water Company
Wastewater SSS Operations
Adjustment to Salaries and Wages Expense
For the Fully Projected Future Test Year Ending June 30, 2027

	2027	Budgeted Number of Employees [1/]	Average Salary And Wages per Employee	Number of Employees Adjusted for Vacancy	Adjusted FPFTY Salaries & Wages	Adjustment to Salaries & Wages	Budgeted Positions Filled Rate
	(a)	(b)	(c)=a/b	(d)=b X f	(e)=c X d	(f)=e-a	(f)
Water Operations							
Non-Collective Bargaining Unit Salary	$34,519,930						
Collective Bargaining Unit	52,644,229						
Non-Collective Bargaining Unit Hourly	18,426,280						
Total	$105,590,439	1,068	$98,867.45	1,068	$105,590,439	$0	98.2%
Payroll Tax Effect (@7.65%)						$0	
Wastewater SSS General Operations							
Non-Collective Bargaining Unit Salary	$1,494,355						
Collective Bargaining Unit	1,503,855						
Non-Collective Bargaining Unit Hourly	3,864,243						
Total	$6,862,453	79	$86,866.49	79	$6,862,453	$0	97.3%
Payroll Tax Effect (@7.65%)						$0	
BASA WW Operations							
Non-Collective Bargaining Unit Salary	$471,557						
Collective Bargaining Unit	2,230,662						
Non-Collective Bargaining Unit Hourly	63,058						
Total	$2,765,276	29	$95,354.36	29	$2,765,276	$0	99.6%
Payroll Tax Effect (@7.65%)						$0	
Wastewater CSS Operations							
Non-Collective Bargaining Unit Salary	$1,112,821						
Collective Bargaining Unit	7,611,368						
Non-Collective Bargaining Unit Hourly	108,323						
Total	$8,832,512	99	$89,443.16	99	$8,832,512	$0	99.6%
Payroll Tax Effect (@7.65%)						$0	

Notes
[1/] I&E RE-018-D_Attachment 1

Pennsylvania-American Water Company
Wastewater SSS Operations
Adjustment to Annual Performance Pay
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount [1/]	O&M Percentage	Earnings-Related Percentage [2/]	Adjustment to Annual Performance Pay
		(a)		(b)	(c)
1	**Water Operations**				
2	Non-Collective Bargaining Unit Salary	$6,213,845			
3	Collective Bargaining Unit	1,706,222			
4	Non-Collective Bargaining Unit Hourly	1,188,694			
5	Total	$9,108,761	57%	50%	($2,604,650)
6	Payroll Tax Effect (@7.65%)				($199,646)
7	**Wastewater SSS General Operations**				
8	Non-Collective Bargaining Unit Salary	$195,340			
9	Collective Bargaining Unit	52,940			
10	Non-Collective Bargaining Unit Hourly	261,680			
11	Total	$509,960	80%	50%	($204,545)
12	Payroll Tax Effect (@7.65%)				($15,678)
13	**BASA WW Operations**				
14	Non-Collective Bargaining Unit Salary	$61,553			
15	Collective Bargaining Unit	84,046			
16	Non-Collective Bargaining Unit Hourly	4,414			
17	Total	$150,013	80%	50%	($60,170)
18	Payroll Tax Effect (@7.65%)				($4,612)
19	**Wastewater CSS Operations**				
20	Non-Collective Bargaining Unit Salary	$141,082			
21	Collective Bargaining Unit	253,139			
22	Non-Collective Bargaining Unit Hourly	12,994			
23	Total	$407,215	80%	1%	($3,267)
	Payroll Tax Effect (@7.65%)				($250)

Notes
[1/] EXHIBIT NO. 3-B, Page 62.
[2/] FR III.22

Pennsylvania-American Water Company
Wastewater SSS Operations
Adjustment to Group Insurance Expense
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount
	Water Operations	
1	PAWC Pro forma Adjustment to Group Insurance Expense	$ 435,915 [1/]
2		
3	Adjustment to Insurance Escalation	$(435,915)
4		
5	Wastewater SS Operations	
6	PAWC Pro forma Adjustment to Group Insurance Expense	$ 46,661 [2/]
7		
8	Adjustment to Insurance Escalation	$ (46,661)
9		
10	BASA WW Operations	
11	PAWC Pro forma Adjustment to Group Insurance Expense	$ 17,770 [3/]
12		
13	Adjustment to Remove Insurance Escalation	$ (17,770)
14		
15	Wastewater CSS Operations	
16	PAWC Pro forma Adjustment to Group Insurance Expense	$ 55,883 [4/]
17		
18	Adjustment to Remove Insurance Escalation	$ (55,883)

Notes:
[1/] PAWC Exhibit No. 3A, Page 49.
[2/] PAWC Exhibit No. 3A, Page 111.
[3/] PAWC Exhibit No. 3A, Page 159.
[4/] PAWC Exhibit No. 3A, Page 208.

Pennsylvania-American Water Company
Wastewater SSS Operations
Adjustment to Transportation Expense
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount
1	**Water Operations**	
2	OCA FPFTY Transportation Expenses	$2,917,533
3	PAWC FPFTY Transportation Expenses	3,095,090
4	Adjustment to Transportation Expenses	(177,557)
5		
6		
7	**Wastewater SSS General Operations**	
8	OCA FPFTY Transportation Expenses	$148,752
9	PAWC FPFTY Transportation Expenses	157,572
10	Adjustment to Transportation Expenses	(8,820)
11		
12		
13	**BASA WW Operations**	
14	OCA FPFTY Transportation Expenses	$54,333
15	PAWC FPFTY Transportation Expenses	57,569
16	Adjustment to Transportation Expenses	(3,236)
17		
18		
19	**Wastewater CSS Operations**	
20	OCA FPFTY Transportation Expenses	$389,061
21	PAWC FPFTY Transportation Expenses	412,698
22	Adjustment to Transportation Expenses	(23,637)

Docket No. R-2025-3057983 (Water)
& R-2025-3058051 (Wastewater)
Exhibit LKM-8WSS-SR

Pennsylvania-American Water Company
Wastewater SSS Operations
Adjustment to Acquisition and Transaction Costs
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Rate Base Amount		Annual Amortization	
1	Water Acquisition Adjustments				
2	Farmington Township (Water)	$ 123,028	1/	$ 12,416	1/
3	Manwalamink Water	1,051,330	1/	106,097	1/
4		$ 1,174,358		$ 118,513	
5	Sewer Acquisition Adjustments				
6	Manwalamink Wastewater	$ 961,320	2/	$ 97,014	2/
7	Farmington Township (Wastewater)	-		-	
8		961,320		97,014	
9	Transaction Costs				
10	Manwalamink Water Transactions Costs - Initial Nextera Bid			$ -	
11	Towamencin Township			60,513	2/
12				$ 60,513	

Notes
1/ PAWC Exhibit No.3-A Revised, Page 37R.
2/ PAWC Exhibit No.3-A Revised, Page 104R.

Pennsylvania-American Water Company
Wastewater SSS Operations
Interest Synchronization Adjustment
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount	
1	Company Rate Base	$ 660,247,539	1/
2	Weighted Cost of Debt	2.11%	2/
3	Adjusted Interest Deduction	$ 13,931,223	
4	Interest Deduction Per Company	13,951,507	3/
5	Adjustment to Synchronize Interest Expense	$ (20,284)	
6	Effective State Income Tax Rate	6.99%	
7	Adjustment to State Income Taxes	$ 1,418	
8	Federal Income Tax Base	$ (18,866)	
9	Federal Income Tax Rate	21.00%	
10	Adjustment to Federal Income Taxes	$ 3,962	

Notes:
1/ Exhibit LKM-2, Page 1.
2/ Exhibit LKM-10WSS-SR
3/ PAWC Exhibit No.3-A Revised, Page 132R.

Pennsylvania-American Water Company
Wastewater SSS Operations
Calculation of Rate of Return
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Capitalization Ratio	Cost Rate	Weighted Cost
1	Long Term Debt	41.60%	4.71%	1.96%
2	Long Term Debt - WW Specific	6.88%	2.20%	0.15%
3	Total Debt	48.48%		2.11%
4	Prefered Stock	0.00%	9.71%	0.00%
5	Common Equity	51.52%	8.70%	4.48%
6	Total	100.00%		6.59%

Source:
Per OCA witness Garrett.

Pennsylvania-American Water Company
Wastewater SSS Operations
Adjustment to Third Party Call Center Expenses
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Apportionment Factor	Amount
1	Total Third Parties Call Center Expenses		$2,836,506 [1/]
2	OCA Witness Alexander Recommended Adjustment (10%)		($283,651)
3			
4	**Water Operations**		
5	Total Third Parties Call Center Expenses Adjustment	82.01%	$ (232,622)
6			
7	**Wastewater SSS General Operations**		
8	Total Third Parties Call Center Expenses Adjustment	9.35%	$ (26,521)
9			
10	**BASA WW Operations**		
11	Total Third Parties Call Center Expenses Adjustment	1.10%	$ (3,120)
12			
13	**Wastewater CSS Operations**		
14	Total Third Parties Call Center Expenses Adjustment	7.39%	$ (20,962)
15			
16	**Elizabeth Borough Operations**		
17	Total Third Parties Call Center Expenses Adjustment	0.15%	$ (425)
18			
19	Total	100%	$ (283,650)

Notes
[1/] PAWC Witness Chard Rebuttal Testimony at 20:11.

Pennsylvania-American Water Company
BASA Wastewater Operations
Cost of Service
For the Future Test Year Ended June 30, 2027

Line No.	Description	Company Amounts at Present Rates [1/]	OCA Adjustments	Amounts After OCA Adjustments	Pro Forma Change in Revenues	Amounts After Change in Revenues
1	Total Operating Revenues	$ 12,761,096	$ -	$ 12,761,096	$ 20,545,055	$ 33,306,151
2						
3	Operating Expenses					
4	Operation and Maintenance	7,504,913	($84,296)	7,420,617	388,087	7,808,704
5	Depreciation	11,360,328	(3,867,209)	7,493,119		7,493,119
6	Amortizations	130,326	(3,867,209)	(3,736,883)	-	(3,736,883)
7	Total Operating Expenses	$ 18,995,567	$ (7,818,714)	$ 11,176,853	$ 388,087	$ 11,564,940
8						
9						
10	Operating Income Before Income Taxes	$ (6,234,471)	$ 7,818,714	$ 1,584,243	$ 20,156,968	$ 21,741,212
11						
12	Taxes & Assessments					
13	Taxes Other Than Income	$ 685,092		$ 685,092	$ 259,278	$ 944,370
14	Federal Income Tax	(348,368)		(348,368)	3,939,620	3,591,252
15	State Income Tax	(112,877)		(112,877)	1,409,881	1,297,004
16	Deferred Income Taxes			-	-	-
17	Net Income	$ (6,458,318)	$ 7,818,714	$ 1,360,396	$ 14,548,189	$ 15,908,586
###	Rate Base	$ 245,536,760		$ 245,536,760		$ 245,536,760
###						
###	Rate of Return	-2.63%		0.55%		6.48%
###						

Source: Company Exhibit 3-A, BASA WW Operations, Page 135.

Pennsylvania-American Water Company
BASA Wastewater Operations
Summary of Revenue Increase at OCA Rate of Return
For the Twelve Months Ended June 30, 2027

Line No.	Description		Amount
1	Adjusted Rate Base		$ 245,536,760
2	Required Rate of Return		6.59%
3			
4	Net Operating Income Required		16,180,872
5	Net Operating Income at Present Rates		1,360,396
6			
7	Income Deficiency/(Surplus)		14,820,476
8	Revenue Multiplier		1.386261
9			
10	Required Change in Company Revenue		$ 20,545,055
11			
12	Proposed Revenue Change		$ 20,545,055
13	Less: Uncollectibles	1.097%	$ 225,379
14	Net of Uncollectibles		$ 20,319,676
15	Less: Regulatory Fees	0.7367%	$ 149,698
16	Net of Regulatory Fees		$ 20,169,978
17	Less: State Income Tax @ 6.99%	6.99%	$ 1,409,881
18	Income Before Federal Taxes		$ 18,760,097
19	Federal Income Tax @ 21.0%	21.00%	3,939,620
20			
21			
22	Net Income (Surplus)/Deficiency		$ 14,820,477

Pennsylvania-American Water Company
BASA Wastewater Operations
Summary of Rate Base
For the Future Test Year Ended June 30, 2027

Line No.	Description	Amount per Company Filing	OCA Adjustments	Amount After OCA Adjustments
1	Utility Plant			
2	Non-Depreciable Plant	$ 13,283,700		$ 13,283,700
3	Depreciable Plant	258,932,616		258,932,616
4	Total Utility Plant	$ 272,216,316	$ -	$ 272,216,316
5				
6	Utility Plant Deductions			
7	Contributions in Aid of Construction	-		-
8	Customer Advances for Construction	-		-
9	Excluded Property	-		-
10	Total Utility Plant Deductions	$ -	$ -	$ -
11				
12	Net Plant	$ 272,216,316	-	$ 272,216,316
13				
	Accumulated Depreciation	24,339,419		24,339,419
	Depreciated Utility Plant in Service	$ 247,876,897	$ -	$ 247,876,897
14	Additions to Net Plant			
15	Materials and Supplies	105,315		105,315
16	Cash Working Capital - Expenses	1,059,448		1,059,448
17	Accrued and Prepaid Taxes	340,483		340,483
18	Acquisition and Adjustments	1,183,796		1,183,796
19	Other Additions	-		-
20	Total Additions	$ 2,689,042	$ -	$ 2,689,042
21				
22	Deductions to Net Plant			
23	Cash Working Capital - Int and Div	662,150		662,150
24	Unamortized ITC (3%)	-		-
25	Extension Deposits in Suspense	-		-
26	Citizens Acquisition of CIAC & CAC, per Settlement	-		-
27	TCJA - Stub Period	-		-
28	Other Deductions	-		-
29	Deferred Taxes	4,367,029	-	4,367,029
30	Total Deductions	$ 5,029,179	$ -	$ 5,029,179
31				
32	Total Rate Base	$ 245,536,760	$ -	$ 245,536,760

Source: Company Exhibit 3-A, BASA WW Operations, Page 145.

Pennsylvania-American Water Company
BASA Wastewater Operations
Summary of Rate Base Adjustments
For the Future Test Year Ended June 30, 2027

Line No.	Description	Source	Amount
1	Rate Base per Company Filing		$ 245,536,760
2			
3	OCA Adjustments:		
4			
5			
6			
7			
8	Total Ratemaking Adjustments		$ -
9			
10	Adjusted Rate Base per OCA		$ 245,536,760

Pennsylvania-American Water Company
BASA Wastewater Operations
Summary of Adjustments to Operating Income
For the Future Test Year Ended June 30, 2027

Line No.	Description	Operating Revenues	Operation and Maintenance	Depreciation	Amortizations	Taxes Other Than Income	State Income Tax	Federal Income Tax	Operating Income
1	Amount per Company	$ 12,761,096	$ 7,504,913	$ 11,360,328	$ 130,326	$ 685,092	$ (112,877)	$ (348,368)	$ (6,458,318)
2									
3	OCA Adjustments:								
4	Salaries and Wages	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
5	Annual Performance Pay	-	(60,170)	-	-	(4,612)	4,528	12,653	47,601
6	Group Insurance	-	(17,770)	-	-	-	1,242	3,471	13,057
7	Transportation Expense	-	(3,236)	-	-	-	226	632	2,378
8	Change in Depreciation Rates	-	-	(3,867,209)	-	-	-	-	3,867,209
9	Interest Synchronization	-	-	-	-	-	-	-	-
10	Third Party Call Centers	-	(3,120)	-	-	-	218	609	2,293
11									
12	Total OCA Adjustments	$ -	$ (84,296)	$ (3,867,209)	$ -	$ (4,612)	$ 6,215	$ 17,366	$ 3,932,537
13									
14	Total Adjusted Income	$ 12,761,096	$ 7,420,617	$ 7,493,119	$ 130,326	$ 680,480	$ (106,662)	$ (331,002)	$ (2,525,781)

Pennsylvania-American Water Company
BASA WW Operations
Adjustment to Salaries and Wages Expense
For the Fully Projected Future Test Year Ending June 30, 2027

	2027	Budgeted Number of Employees [1/]	Average Salary And Wages per Employee	Number of Employees Adjusted for Vacancy	Adjusted FPFTY Salaries & Wages	Adjustment to Salaries & Wages	Budgeted Positions Filled Rate
	(a)	(b)	(c)=a/b	(d)=b X f	(e)=c X d	(f)=e-a	(f)
Water Operations							
Non-Collective Bargaining Unit Salary	$34,519,930						
Collective Bargaining Unit	52,644,229						
Non-Collective Bargaining Unit Hourly	18,426,280						
Total	$105,590,439	1,068	$98,867.45	1,068	$105,590,439	$0	98.2%
Payroll Tax Effect (@7.65%)						$0	
Wastewater SSS General Operations							
Non-Collective Bargaining Unit Salary	$1,494,355						
Collective Bargaining Unit	1,503,855						
Non-Collective Bargaining Unit Hourly	3,864,243						
Total	$6,862,453	79	$86,866.49	79	$6,862,453	$0	97.3%
Payroll Tax Effect (@7.65%)						$0	
BASA WW Operations							
Non-Collective Bargaining Unit Salary	$471,557						
Collective Bargaining Unit	2,230,662						
Non-Collective Bargaining Unit Hourly	63,058						
Total	$2,765,276	29	$95,354.36	29	$2,765,276	$0	99.6%
Payroll Tax Effect (@7.65%)						$0	
Wastewater CSS Operations							
Non-Collective Bargaining Unit Salary	$1,112,821						
Collective Bargaining Unit	7,611,368						
Non-Collective Bargaining Unit Hourly	108,323						
Total	$8,832,512	99	$89,443.16	99	$8,832,512	$0	99.6%
Payroll Tax Effect (@7.65%)						$0	

Notes
[1/] I&E RE-018-D_Attachment 1

Pennsylvania-American Water Company
BASA WW Operations
Adjustment to Annual Performance Pay
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount [1/]	O&M Percentage	Earnings-Related Percentage [2/]	Adjustment to Annual Performance Pay
		(a)		(b)	(c)
1	**Water Operations**				
2	Non-Collective Bargaining Unit Salary	$6,213,845			
3	Collective Bargaining Unit	1,706,222			
4	Non-Collective Bargaining Unit Hourly	1,188,694			
5	Total	$9,108,761	57%	50%	($2,604,650)
6	Payroll Tax Effect (@7.65%)				($199,646)
7	**Wastewater SSS General Operations**				
8	Non-Collective Bargaining Unit Salary	$195,340			
9	Collective Bargaining Unit	52,940			
10	Non-Collective Bargaining Unit Hourly	261,680			
11	Total	$509,960	80%	50%	($204,545)
12	Payroll Tax Effect (@7.65%)				($15,678)
13	**BASA WW Operations**				
14	Non-Collective Bargaining Unit Salary	$61,553			
15	Collective Bargaining Unit	84,046			
16	Non-Collective Bargaining Unit Hourly	4,414			
17	Total	$150,013	80%	50%	($60,170)
18	Payroll Tax Effect (@7.65%)				($4,612)
19	**Wastewater CSS Operations**				
20	Non-Collective Bargaining Unit Salary	$141,082			
21	Collective Bargaining Unit	253,139			
22	Non-Collective Bargaining Unit Hourly	12,994			
23	Total	$407,215	80%	1%	($3,267)
	Payroll Tax Effect (@7.65%)				($250)

Notes
[1/] EXHIBIT NO. 3-B, Page 62.
[2/] FR III.22

Pennsylvania-American Water Company
BASA WW Operations
Adjustment to Group Insurance Expense
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount
1	PAWC Proforma Adjustment to Group Insurance Expense	$ 17,770 1/
2		
3	Adjustment to Remove Insurance Escalation	$ (17,770)

Notes:
1/ PAWC Exhibit No. 3A, Page 111.

Docket No. R-2025-3057983 (Water)
& R-2025-3058051 (Wastewater)
Exhibit LKM-7BASA-SR

Pennsylvania-American Water Company
BASA Wastewater Operations
Adjustment to Transportation Expense
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount
1	**Water Operations**	
2	OCA FPFTY Transportation Expenses	$2,917,533
3	PAWC FPFTY Transportation Expenses	3,095,090
4	Adjustment to Transportation Expenses	(177,557)
5		
6		
7	**Wastewater SSS General Operations**	
8	OCA FPFTY Transportation Expenses	$148,752
9	PAWC FPFTY Transportation Expenses	157,572
10	Adjustment to Transportation Expenses	(8,820)
11		
12		
13	**BASA WW Operations**	
14	OCA FPFTY Transportation Expenses	$54,333
15	PAWC FPFTY Transportation Expenses	57,569
16	Adjustment to Transportation Expenses	(3,236)
17		
18		
19	**Wastewater CSS Operations**	
20	OCA FPFTY Transportation Expenses	$389,061
21	PAWC FPFTY Transportation Expenses	412,698
22	Adjustment to Transportation Expenses	(23,637)

Pennsylvania-American Water Company
BASA Wastewater Operations
Interest Synchronization Adjustment
For the Future Test Year Ended June 30, 2027

Line No.	Description	Amount	
1	Company Rate Base	$ 245,536,760	1/
2	Weighted Cost of Debt	2.11%	2/
3	Adjusted Interest Deduction	$ 5,180,826	
4	Interest Deduction Per Company	5,180,826	3/
5	Adjustment to Synchronize Interest Expense	$ -	
6	Effective State Income Tax Rate	6.99%	
7	Adjustment to State Income Taxes	$ -	
8	Federal Income Tax Base	$ -	
9	Federal Income Tax Rate	21.00%	
10	Adjustment to Federal Income Taxes	$ -	

Notes:
1/ Exhibit LKM-2, Page 1.
2/ Exhibit LKM-9BASA-SR
3/ PAWC Exhibit No 3-a, page 177R

Pennsylvania-American Water Company
BASA Operations
Calculation of Rate of Return
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Capitalization Ratio	Cost Rate	Weighted Cost
1	Long Term Debt	41.60%	4.71%	1.96%
2	Long Term Debt - WW Specific	6.88%	2.20%	0.15%
3	Total Debt	48.48%		2.11%
4	Preferred Stock	0.00%	9.71%	0.00%
5	Common Equity	51.52%	8.70%	4.48%
6	Total	100.00%		6.59%

Source:
1/ OCA witness Garrett

Pennsylvania-American Water Company
BASA Wastewater Operations
Adjustment to Third Party Call Center Expenses
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Apportionment Factor	Amount
1	Total Third Parties Call Center Expenses		$2,836,506 [1/]
2	OCA Witness Alexander Recommended Adjustment (10%)		($283,651)
3			
4	**Water Operations**		
5	Total Third Parties Call Center Expenses Adjustment	82.01%	$ (232,622)
6			
7	**Wastewater SSS General Operations**		
8	Total Third Parties Call Center Expenses Adjustment	9.35%	$ (26,521)
9			
10	**BASA WW Operations**		
11	Total Third Parties Call Center Expenses Adjustment	1.10%	$ (3,120)
12			
13	**Wastewater CSS Operations**		
14	Total Third Parties Call Center Expenses Adjustment	7.39%	$ (20,962)
15			
16	**Elizabeth Borough Operations**		
17	Total Third Parties Call Center Expenses Adjustment	0.15%	$ (425)
18			
19	Total	100%	$ (283,650)

Notes
[1/] PAWC Witness Chard Rebuttal Testimony at 20:11.

Pennsylvania-American Water Company
Wastewater CSS Operations
Cost of Service
For the Future Test Year Ended June 30, 2027

Line No.	Description	Company Amounts at Present Rates [1/]	OCA Adjustments	Amounts After OCA Adjustments	Pro Forma Change in Revenues	Amounts After Change in Revenues
1	Total Operating Revenues	$ 85,843,356	$ -	$ 85,843,356	$ (1,941,664)	$ 83,901,692
2						
3	Operating Expenses					
4	Operation and Maintenance	19,880,761	(103,749)	19,777,012	114,136	19,891,148
5	Depreciation	21,615,574	(2,983,191)	18,632,383	-	18,632,383
6	Amortizations	130,661	-	130,661	-	130,661
7	Total Operating Expenses	$ 41,626,996	$ (3,086,940)	$ 38,540,056	$ 114,136	$ 38,654,192
8						
9						
10	Operating Income Before Income Taxes	$ 44,216,360	$ 3,086,940	$ 47,303,300	$ (2,055,800)	$ 45,247,500
11						
12	Taxes & Assessments					
13	Taxes Other Than Income	$ 2,253,554	$ (250)	$ 2,253,304	$ 76,254	$ 2,329,558
14	Federal Income Tax	6,535,020		6,535,020	(372,324)	6,162,696
15	State Income Tax	2,530,164		2,530,164	(133,245)	2,396,919
16	Deferred Income Taxes			-	-	-
17						
18	Net Income	$ 32,897,622	$ 3,087,190	$ 35,984,812	$ (1,626,485)	$ 34,358,327
19						
20	Rate Base	$ 524,797,637		$ 524,797,637		$ 524,797,637
21						
22	Rate of Return	6.27%		6.86%		6.55%
23						

Source: Company Exhibit 3-A, Wastewater CSS General Operations, Page 180.

Pennsylvania-American Water Company
Wastewater CSS Operations
Summary of Revenue Increase at OCA Rate of Return
For the Twelve Months Ended June 30, 2027

Line No.	Description		Amount
1	Adjusted Rate Base		$ 524,797,637
2	Required Rate of Return		6.59%
3			
4	Net Operating Income Required		34,584,164
5	Net Operating Income at Present Rates		35,984,812
6			
7	Income Deficiency/(Surplus)		(1,400,648)
8	Revenue Multiplier		1.386261
9			
10	Required Change in Company Revenue		$ (1,941,664)
11			
12	Proposed Revenue Change		$ (1,941,664)
13	Less: Uncollectibles	1.097%	$ (21,300)
14	Net of Uncollectibles		$ (1,920,364)
15	Less: Regulatory Fees	0.7367%	$ (14,148)
16	Net of Regulatory Fees		$ (1,906,216)
17	Less: State Income Tax @ 6.99%	6.99%	$ (133,245)
18			
19	Income Before Federal Taxes		$ (1,772,971)
20	Federal Income Tax @ 21.0%	21.00%	(372,324)
21	Net Income (Surplus)/Deficiency		$ (1,400,647)

Pennsylvania-American Water Company
Wastewater CSS Operations
Summary of Rate Base
For the Future Test Year Ended June 30, 2027

Line No.	Description	Amount per Company Filing	OCA Adjustments	Amount After OCA Adjustments
1	Utility Plant			
2	Non-Depreciable Plant	$ 5,076,748		$ 5,076,748
3	Depreciable Plant	936,897,478		936,897,478
4	Total Utility Plant	$ 941,974,226	$ -	$ 941,974,226
5				
6	Utility Plant Deductions			
7	Contributions in Aid of Construction	12,319,932		12,319,932
8	Customer Advances for Construction	-		-
9	Excluded Property	-		-
10	Total Utility Plant Deductions	$ 12,319,932	$ -	$ 12,319,932
11				
12	Net Plant	$ 929,654,294	-	$ 929,654,294
13				
	Accumulated Depreciation	338,599,287		338,599,287
	Depreciated Utility Plant in Service	$ 591,055,007	$ -	$ 591,055,007
14	Additions to Net Plant			
15	Materials and Supplies	426,365		426,365
16	Cash Working Capital - Expenses	1,497,842		1,497,842
17	Accrued and Prepaid Taxes	728,159		728,159
18	Acquisition and Adjustments	3,395,192		3,395,192
19	Other Additions	-		-
20	Total Additions	$ 6,047,558	$ -	$ 6,047,558
21				
22	Deductions to Net Plant			
23	Cash Working Capital - Int and Div	1,415,268		1,415,268
24	Unamortized ITC (3%)	-		-
25	Extension Deposits in Suspense	-		-
26	Citizens Acquisition of CIAC & CAC, per Settlement	-		-
27	TCJA - Stub Period	-		-
28	Other Deductions	-		-
29	Deferred Taxes	70,889,660	-	70,889,660
30	Total Deductions	$ 72,304,928	$ -	$ 72,304,928
31				
32	Total Rate Base	$ 524,797,637	$ -	$ 524,797,637

Source: Company Exhibit 3-A, Wastewater CSS Operations, Page 192.

Pennsylvania-American Water Company
Wastewater CSS Operations
Summary of Rate Base Adjustments
For the Future Test Year Ended June 30, 2027

Line No.	Description	Source	Amount
1	Rate Base per Company Filing		$ 524,797,637
2			
3	OCA Adjustments:		
4			
5			
6			
7			
8			
9			
10			
11	Total Ratemaking Adjustments		$ -
12			
13	Adjusted Rate Base per OCA		$ 524,797,637

Pennsylvania-American Water Company
Wastewater CSS Operations
Summary of Adjustments to Operating Income
For the Future Test Year Ended June 30, 2027

Line No.	Description	Operating Revenues	Operation and Maintenance	Depreciation	Amortizations	Taxes Other Than Income	State Income Tax	Federal Income Tax	Operating Income
1	Amount per Company	$ 85,843,356	$ 19,880,761	$ 21,615,574	$ 130,661	$ 2,253,554	$ 2,530,164	$ 6,535,020	$ 32,897,622
2									
3	OCA Adjustments:								
4	Salaries and Wages		-			-	-	-	-
5	Annual Performance Pay		(3,267)			(250)	246	687	2,584
6	Group Insurance		(55,883)				3,906	10,915	41,062
7	Transportation Expense		(23,637)				1,652	4,617	17,368
8	Change in Depreciation Rates			(2,983,191)			208,525	582,680	2,191,986
9	Interest Synchronization	-	-	-	-	-	-	-	-
10	Third Party Call Centers	-	(20,962)	-	-	-	1,465	4,094	15,402
11									
12	Total OCA Adjustments	$ -	$ (103,749)	$ (2,983,191)	$ -	$ (250)	$ 215,795	$ 602,993	$ 2,268,402
13									
14	Total Adjusted Income	$ 85,843,356	$ 19,777,012	$ 18,632,383	$ 130,661	$ 2,253,304	$ 2,745,959	$ 7,138,013	$ 35,166,024

Pennsylvania-American Water Company
Wastewater CSS Operations
Adjustment to Salaries and Wages Expense
For the Fully Projected Future Test Year Ending June 30, 2027

	2027	Budgeted Number of Employees [1/]	Average Salary And Wages per Employee	Number of Employees Adjusted for Vacancy	Adjusted FPFTY Salaries & Wages	Adjustment to Salaries & Wages	Budgeted Positions Filled Rate
	(a)	(b)	(c)=a/b	(d)=b X f	(e)=c X d	(f)=e-a	(f)
Water Operations							
Non-Collective Bargaining Unit Salary	$34,519,930						
Collective Bargaining Unit	52,644,229						
Non-Collective Bargaining Unit Hourly	18,426,280						
Total	$105,590,439	1,068	$98,867.45	1,068	$105,590,439	$0	98.2%
Payroll Tax Effect (@7.65%)						$0	
Wastewater SSS General Operations							
Non-Collective Bargaining Unit Salary	$1,494,355						
Collective Bargaining Unit	1,503,855						
Non-Collective Bargaining Unit Hourly	3,864,243						
Total	$6,862,453	79	$86,866.49	79	$6,862,453	$0	97.3%
Payroll Tax Effect (@7.65%)						$0	
BASA WW Operations							
Non-Collective Bargaining Unit Salary	$471,557						
Collective Bargaining Unit	2,230,662						
Non-Collective Bargaining Unit Hourly	63,058						
Total	$2,765,276	29	$95,354.36	29	$2,765,276	$0	99.6%
Payroll Tax Effect (@7.65%)						$0	
Wastewater CSS Operations							
Non-Collective Bargaining Unit Salary	$1,112,821						
Collective Bargaining Unit	7,611,368						
Non-Collective Bargaining Unit Hourly	108,323						
Total	$8,832,512	99	$89,443.16	99	$8,832,512	$0	99.6%
Payroll Tax Effect (@7.65%)						$0	

Notes
[1/] I&E RE-018-D_Attachment 1

Pennsylvania-American Water Company
Wastewater CSS Operations
Adjustment to Annual Performance Pay
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount [1/]	O&M Percentage	Earnings-Related Percentage [2/]	Adjustment to Annual Performance Pay
		(a)		(b)	(c)
1	**Water Operations**				
2	Non-Collective Bargaining Unit Salary	$6,213,845			
3	Collective Bargaining Unit	1,706,222			
4	Non-Collective Bargaining Unit Hourly	1,188,694			
5	Total	$9,108,761	57%	50%	($2,604,650)
6	Payroll Tax Effect (@7.65%)				($199,646)
7	**Wastewater SSS General Operations**				
8	Non-Collective Bargaining Unit Salary	$195,340			
9	Collective Bargaining Unit	52,940			
10	Non-Collective Bargaining Unit Hourly	261,680			
11	Total	$509,960	80%	50%	($204,545)
12	Payroll Tax Effect (@7.65%)				($15,678)
13	**BASA WW Operations**				
14	Non-Collective Bargaining Unit Salary	$61,553			
15	Collective Bargaining Unit	84,046			
16	Non-Collective Bargaining Unit Hourly	4,414			
17	Total	$150,013	80%	50%	($60,170)
18	Payroll Tax Effect (@7.65%)				($4,612)
19	**Wastewater CSS Operations**				
20	Non-Collective Bargaining Unit Salary	$141,082			
21	Collective Bargaining Unit	253,139			
22	Non-Collective Bargaining Unit Hourly	12,994			
23	Total	$407,215	80%	1%	($3,267)
	Payroll Tax Effect (@7.65%)				($250)

Notes
[1/] EXHIBIT NO. 3-B, Page 62.
[2/] FR III.22

Pennsylvania-American Water Company
Wastewater CSS Operations
Adjustment to Group Insurance Expense
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount
1	PAWC Proforma Adjustment to Group Insurance Expense	$ 55,883 1/
2		
3	Adjustment to Remove Insurance Escalation	$ (55,883)

Notes:
1/ PAWC Exhibit No. 3A, Page 208.

Pennsylvania-American Water Company
Wastewater CSS Operations
Adjustment to Transportation Expense
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Amount
1	**Water Operations**	
2	OCA FPFTY Transportation Expenses	$2,917,533
3	PAWC FPFTY Transportation Expenses	3,095,090
4	Adjustment to Transportation Expenses	(177,557)
5		
6		
7	**Wastewater SSS General Operations**	
8	OCA FPFTY Transportation Expenses	$148,752
9	PAWC FPFTY Transportation Expenses	157,572
10	Adjustment to Transportation Expenses	(8,820)
11		
12		
13	**BASA WW Operations**	
14	OCA FPFTY Transportation Expenses	$54,333
15	PAWC FPFTY Transportation Expenses	57,569
16	Adjustment to Transportation Expenses	(3,236)
17		
18		
19	**Wastewater CSS Operations**	
20	OCA FPFTY Transportation Expenses	$389,061
21	PAWC FPFTY Transportation Expenses	412,698
22	Adjustment to Transportation Expenses	(23,637)

Pennsylvania-American Water Company
Wastewater CSS Operations
Interest Synchronization Adjustment
For the Future Test Year Ended June 30, 2027

Line No.	Description	Amount	
1	Company Rate Base	$ 524,797,637	1/
2	Weighted Cost of Debt	2.11%	2/
3	Adjusted Interest Deduction	$ 11,073,230	
4	Interest Deduction Per Company	11,073,230	2/
5	Adjustment to Synchronize Interest Expense	$ -	
6	Effective State Income Tax Rate	6.99%	
7	Adjustment to State Income Taxes	$ -	
8	Federal Income Tax Base	$ -	
9	Federal Income Tax Rate	21.00%	
10	Adjustment to Federal Income Taxes	$ -	

Notes:
1/ Exhibit LKM-2, Page 1.
2/ Exhibit LKM-9CSS-SR
3/ PAWC Exhibit No 3-a, page 228R

Water Operations
Wastewater CSS Operations
Calculation of Rate of Return

Line No.	Description	Capitalization Ratio	Cost Rate	Weighted Cost
1	Long Term Debt	41.60%	4.71%	1.96%
2	Long Term Debt - WW Specific	6.88%	2.20%	0.15%
3	Total Debt	48.48%		2.11%
4	Preferred Stock	0.00%	9.71%	0.00%
5	Common Equity	51.52%	8.70%	4.48%
6	Total	100.00%		6.59%

Source:
[1/] OCA witness Garrett.

Pennsylvania-American Water Company
Wastewater CSS Operations
Adjustment to Third Party Call Center Expenses
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Apportionment Factor	Amount
1	Total Third Parties Call Center Expenses		$2,836,506 [1/]
2	OCA Witness Alexander Recommended Adjustment (10%)		($283,651)
3			
4	**Water Operations**		
5	Total Third Parties Call Center Expenses Adjustment	82.01%	$ (232,622)
6			
7	**Wastewater SSS General Operations**		
8	Total Third Parties Call Center Expenses Adjustment	9.35%	$ (26,521)
9			
10	**BASA WW Operations**		
11	Total Third Parties Call Center Expenses Adjustment	1.10%	$ (3,120)
12			
13	**Wastewater CSS Operations**		
14	Total Third Parties Call Center Expenses Adjustment	7.39%	$ (20,962)
15			
16	**Elizabeth Borough Operations**		
17	Total Third Parties Call Center Expenses Adjustment	0.15%	$ (425)
18			
19	Total	100%	$ (283,650)

Notes
[1/] PAWC Witness Chard Rebuttal Testimony at 20:11.

Pennsylvania-American Water Company
Elizabeth Borough WW Operations
Cost of Service
For the Future Test Year Ended June 30, 2027

Line No.	Description	Company Amounts at Present Rates [1/]	OCA Adjustments	Amounts After OCA Adjustments	Pro Forma Change in Revenues	Amounts After Change in Revenues
1	Total Operating Revenues	$ 1,767,267	$ -	$ 1,767,267	$ 2,753,177	$ 4,520,444
2						
3	Operating Expenses					
4	Operation and Maintenance	868,308	(425)	867,883	30,202	898,085
5	Depreciation	1,035,785	(292,710)	743,075	-	743,075
6	Amortizations	63,680	-	63,680	-	63,680
7	Total Operating Expenses	$ 1,967,773	$ (293,135)	$ 1,674,638	$ 30,202	$ 1,704,840
8						
9						
10	Operating Income Before Income Taxes	$ (200,506)	$ 293,135	$ 92,629	$ 2,722,975	$ 2,815,604
11						
12	Taxes & Assessments					
13	Taxes Other Than Income	$ 29,882	$ -	$ 29,882	$ 20,061	$ 49,943
14	Federal Income Tax	72,489	57,172	129,661	527,936	657,597
15	State Income Tax	24,927	20,460	45,387	188,934	234,321
16	Deferred Income Taxes			-	-	-
17						
18	Net Income	$ (327,804)	$ 215,502	$ (112,302)	$ 1,986,044	$ 1,873,742
19						
20	Rate Base	$ 28,433,120		$ 28,433,120		$ 28,433,120
21						
22	Rate of Return	-1.15%		-0.39%		6.59%
23						

Source: Company Exhibit 3-A, Elizabeth WW CSS Operations, Page 231.

Pennsylvania-American Water Company
Elizabeth Borough WW Operations
Summary of Revenue Increase at OCA Rate of Return
For the Twelve Months Ended June 30, 2027

Line No.	Description			Amount
1	Adjusted Rate Base		$	28,433,120
2	Required Rate of Return			6.59%
3				
4	Net Operating Income Required			1,873,743
5	Net Operating Income at Present Rates			(112,302)
6				
7	Income Deficiency/(Surplus)			1,986,044
8	Revenue Multiplier			1.386261
9				
10	Required Change in Company Revenue		$	2,753,177
11				
12	Proposed Revenue Change		$	2,753,177
13	Less: Uncollectibles	1.097%	$	30,202
14	Net of Uncollectibles		$	2,722,975
15	Less: Regulatory Fees	0.7367%	$	20,061
16	Net of Regulatory Fees		$	2,702,914
17	Less: State Income Tax @ 6.99%	6.99%	$	188,934
18				
19	Income Before Federal Taxes		$	2,513,980
20	Federal Income Tax @ 21.0%	21.00%		527,936
21				
22				
23	Net Income (Surplus)/Deficiency		$	1,986,044

Pennsylvania-American Water Company
Elizabeth Borough WW Operations
Summary of Rate Base
For the Future Test Year Ended June 30, 2027

Line No.	Description	Amount per Company Filing	OCA Adjustments	Amount After OCA Adjustments
1	Utility Plant			
2	Non-Depreciable Plant	$ 633,483		$ 633,483
3	Depreciable Plant	28,013,222		28,013,222
4	Total Utility Plant	$ 28,646,705	$ -	$ 28,646,705
5				
6	Utility Plant Deductions			
7	Contributions in Aid of Construction	-		-
8	Customer Advances for Construction	-		-
9	Excluded Property	-		-
10	Total Utility Plant Deductions	$ -	$ -	$ -
11				
12	Net Plant	$ 28,646,705	-	$ 28,646,705
13				
	Accumulated Depreciation	1,172,492		1,172,492
	Depreciated Utility Plant in Service	$ 27,474,213	$ -	$ 27,474,213
14	Additions to Net Plant			
15	Materials and Supplies	6,650		6,650
16	Cash Working Capital - Expenses	51,881		51,881
17	Accrued and Prepaid Taxes	23,014		23,014
18	Acquisition and Adjustments	578,422		578,422
19	Other Additions	-		-
20	Total Additions	$ 659,967	$ -	$ 659,967
21				
22	Deductions to Net Plant			
23	Cash Working Capital - Int and Div	76,693		76,693
24	Unamortized ITC (3%)	-		-
25	Extension Deposits in Suspense	-		-
26	Citizens Acquisition of CIAC & CAC, per Settlement	-		-
27	TCJA - Stub Period	-		-
28	Other Deductions	-		-
29	Deferred Taxes	(375,633)	-	(375,633)
30	Total Deductions	$ (298,940)	$ -	$ (298,940)
31				
32	Rate Base	$ 28,433,120	$ -	$ 28,433,120

Source: Company Exhibit 3-A, Elizabeth WW CSS Operations, Page 237.

Pennsylvania-American Water Company
Elizabeth Borough WW Operations
Summary of Rate Base Adjustments
For the Future Test Year Ended June 30, 2027

Line No.	Description	Source	Amount
1	Rate Base per Company Filing		$ 28,433,120
2			
3	OCA Adjustments:		
4			
5			
6			
7			
8			
9			
10			
11	Total Ratemaking Adjustments		$ -
12			
13	Adjusted Rate Base per OCA		$ 28,433,120

Pennsylvania-American Water Company
Elizabeth Borough WW Operations
Summary of Adjustments to Operating Income
For the Future Test Year Ended June 30, 2027

Line No.	Description	Operating Revenues	Operation and Maintenance	Depreciation	Amortizations	Taxes Other Than Income	State Income Tax	Federal Income Tax	Operating Income
1	Amount per Company	$ 1,767,267	$ 868,308	$ 1,035,785	$ 63,680	$ 29,882	$ 24,927	$ 72,489	$ (327,804)
2									
3	OCA Adjustments:								-
4									-
5	Change in Depreciation Rates	-	-	(292,710)	-	-	20,460	57,172	215,077
6	Third party Call Centers		(425)				30	83	312
7	Interest Synchronization	-	-	-	-	-	-	-	-
8									
9	Total OCA Adjustments	$ -	$ (425)	$ (292,710)	$ -	$ -	$ 20,490	$ 57,255	$ 215,389
10									
11	Total Adjusted Income	$ 1,767,267	$ 867,883	$ 743,075	$ 63,680	$ 29,882	$ 45,417	$ 129,744	$ (112,415)

Pennsylvania-American Water Company
Elizabeth Borough WW Operations
Interest Synchronization Adjustment
For the Future Test Year Ended June 30, 2027

Line No.	Description	Amount	
1	Company Rate Base	$ 28,433,120	1/
2	Weighted Cost of Debt	2.11%	2/
3	Adjusted Interest Deduction	$ 599,939	
4	Interest Deduction Per Company	599,939	3/
5	Adjustment to Synchronize Interest Expense	$ -	
6	Effective State Income Tax Rate	6.99%	
7	Adjustment to State Income Taxes	$ -	
8	Federal Income Tax Base	$ -	
9	Federal Income Tax Rate	21.00%	
10	Adjustment to Federal Income Taxes	$ -	

Notes:
1/ Exhibit LKM-2, Page 1.
2/ Exhibit LKM-5E-SR
3/ PAWC Exhibit No 3-A, page 257R

Pennsylvania-American Water Company
Elizabeth Borough WW Operations
Calculation of Rate of Return
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Capitalization Ratio	Cost Rate	Weighted Cost
1	Long Term Debt	41.60%	4.71%	1.96%
2	Long Term Debt - WW Specific	6.88%	2.20%	0.15%
3	Total Debt	48.48%		2.11%
4	Preferred Stock	0.00%	9.71%	0.00%
5	Common Equity	51.52%	8.70%	4.48%
6	Total	100.00%		6.59%

Source:
[1/] OCA Witness Garrett.

Pennsylvania-American Water Company
Elizabeth Borough WW Operations
Adjustment to Third Party Call Center Expenses
For the Fully Projected Future Test Year Ending June 30, 2027

Line No.	Description	Apportionment Factor	Amount
1	Total Third Parties Call Center Expenses		$2,836,506 [1/]
2	OCA Witness Alexander Recommended Adjustment (10%)		($283,651)
3			
4	**Water Operations**		
5	Total Third Parties Call Center Expenses Adjustment	82.01%	$ (232,622)
6			
7	**Wastewater SSS General Operations**		
8	Total Third Parties Call Center Expenses Adjustment	9.35%	$ (26,521)
9			
10	**BASA WW Operations**		
11	Total Third Parties Call Center Expenses Adjustment	1.10%	$ (3,120)
12			
13	**Wastewater CSS Operations**		
14	Total Third Parties Call Center Expenses Adjustment	7.39%	$ (20,962)
15			
16	**Elizabeth Borough Operations**		
17	Total Third Parties Call Center Expenses Adjustment	0.15%	$ (425)
18			
19	Total	100%	$ (283,650)

Notes
[1/] PAWC Witness Chard Rebuttal Testimony at 20:11.

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	:	
	:	
v.	:	Docket Nos. R-2025-3057983 (W)
	:	R-2025-3058051 (WW)
Pennsylvania-American Water Company	:	
	:	

VERIFICATION

I, Lafayette K. Morgan Jr., hereby state that the facts above set forth in my Surrebuttal Testimony, OCA Statement No. 1SR, 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 herein are made subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

DATED: March 13, 2026

Signature: Lafayette Morgan Jr.
Lafayette K. Morgan Jr.

Address: Exeter Associates, Inc.
10480 Little Patuxent Parkway
Suite 300
Columbia, MD 21044-3575

OCA St. 2SR

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	**:**	
	:	**Docket Nos. R-2025-3057983**
v.	**:**	**R-2025-3058051**
	:	
Pennsylvania American Water Company	**:**	

SURREBUTTAL TESTIMONY

OF

DAVID J. GARRETT

ON BEHALF OF

THE PENNSYLVANIA OFFICE OF CONSUMER ADVOCATE

March 13, 2026

I. Introduction

Q. State your name and occupation.

A. My name is David J. Garrett. I am a consultant specializing in public utility regulation. I am the managing member of Resolve Utility Consulting PLLC.

Q. Have you previously filed testimony in this proceeding?

A. Yes. I filed direct testimony in OCA Statement 2 on January 30, 2026, on behalf of the Pennsylvania Office of Consumer Advocate ("OCA"). A corrected version of my direct testimony was filed on February 2, 2026. I also filed rebuttal testimony in OCA Statement 2R on February 27, 2026. A summary of my qualifications is included in my direct testimony.

Q. What is the purpose of your surrebuttal testimony?

A. My surrebuttal testimony responds to the rebuttal testimony of PAWC Electric Utilities Corporation ("PAWC" or the "Company") witness Ann Bulkley regarding rate of return issues. I also address the rebuttal testimony of PAWC witness John Spanos regarding depreciation issues.

Q. Did the Company's rebuttal testimony cause you to change any of your positions or recommendations discussed in your direct testimony?

A. No. Mr. Spanos's rebuttal testimony discusses a few typographical errors related to the depreciation impacts resulting from my recommended depreciation rates. I address these issues in the corrected version of my direct testimony. Additionally, to the extent I do not specifically address a statement made in the Company's rebuttal testimony filed in this case, it should not constitute my agreement with such testimony.

Q. Are you sponsoring any exhibits to your surrebuttal testimony?

A. No.

II. Rate of Return

Q. Please summarize your surrebuttal testimony directed to the rebuttal testimony of Ms. Bulkley.

A. In my surrebuttal testimony to Ms. Bulkley, I will address Ms. Bulkley's updated cost of equity results. I will also address the assertions made in her rebuttal testimony regarding my overall rate of return recommendation and the proxy group I used for my analysis, my capital structure recommendation, the Discounted Cash Flow ("DCF") Model, and the Capital Asset Pricing Model ("CAPM").

Q. Please summarize the impact the ROE issue has on the revenue requirement in this case.

A. PAWC's proposed ROE of 10.95% in this case is clearly excessive and unsupported. As discussed in my direct testimony, PAWC's proposed ROE is more than 200 basis points above any reasonable estimate of the Company's market-based cost of equity. Every 10 basis point change in the ROE in this case results in approximately $5.3 million of impact to the revenue requirement. The market based evidence clearly shows that PAWC's authorized ROE should be lower than the Company's current authorized ROE of 9.45%, not more than 100 basis points higher as proposed by Ms. Bulkley. In PAWC's prior rate case, the Company proposed an ROE of 10.95% as they are in this case, and the Commission authorized an ROE of 9.45%. Based on the modeling results using current market metrics, the Company's current cost of equity is clearly lower than 9.45%. In that

regard, the Company's proposed ROE of 10.95% is excessive and not supported by objective, market-based evidence.

Q. Ms. Bulkley claims that had you used the same approach you did in PAWC's last case that your recommended ROE would be 9.0%. What is your response?

A. In this case, if I simply averaged the analyst-growth variation of my DCF Model (9.3%) and the results of my CAPM (8.7%), the result would be 9.0%. An authorized ROE of 9.0% would certainly be much fairer than the ROE proposed by the Company. However, taking this approach would effectively give the same analytical weight to the CAPM and the analyst-growth variation of the DCF Model. As discussed in my testimony, the analyst-growth variation of the DCF Model very likely overstates the Company's market-based cost of equity. In this case, I also gave an equal amount of analytical weight to the sustainable growth variation of the DCF Model in developing my overall modeling average of 8.3%. However, my recommended ROE of 8.7% is notably higher than my modeling average. In that regard, an authorized ROE of 8.7% is still likely higher than PAWC's market-based cost of equity. Thus, my proposed ROE is not simply a low result that would reduce rates for customers, but rather it would be a fair outcome for both the Company and customers that would reduce the excess transfer of wealth from customers to shareholders that would otherwise occur under the Company's proposed ROE.

A. Updated Cost of Equity Analysis

Q. Do you have any remarks on Ms. Bulkley's updated cost of equity analysis?

A. Ms. Bulkley conducted an updated analysis that produced an even higher cost of equity estimates than her initial analysis. Her updated analysis suffers from the same upwardly

biased and unreasonable assumptions. However, Ms. Bulkley did not change her recommended ROE as stated in her direct testimony based on her updated analysis.

B. Rate of Return Recommendation and Proxy Group

Q. Please summarize Ms. Bulkley's criticism of your ROE recommendation.

A. In her rebuttal testimony, Ms. Bulkley states that "Mr. Garrett provides no justification for why he only considers one of his three models for his ROE recommendation."[1]

Q. What is your response to Ms. Bulkley on this issue?

A. While it is true that my recommended ROE of 8.7% for PAWC equals the result of my application of the CAPM, I do not agree with Ms. Bulkley's characterization of my recommendation that "he only considers one of his three models for his ROE recommendation."[2] In fact, I consider all of the modeling results when forming my recommended ROE, which is based in part on the modeling results as well as professional judgment. I gave a detailed explanation in my testimony regarding the shortcomings of the analyst growth variation of my DCF Model application, which produced a result of 9.3%. Due to the shortcomings of this model, I believe 9.3% clearly overstates PAWC's market based cost of equity. Despite the shortcomings, of the analyst-growth variation of the DCF Model, my overall model average is only 8.3%. In that regard, my proposed ROE of 8.7% certainly does not understate PAWC's cost of equity. Thus, it would represent a very fair authorized ROE in this case.

---

[1] Rebuttal Testimony of Ann E. Bulkley (PAWC St. No. 13-R), p. 41, lines 770-772.

[2] *Id*.

Q. Does Ms. Bulkley also criticize the proxy group you used?

A. Yes. Ms. Bulkley criticizes my decision to use only water utilities in my proxy group, instead of Ms. Bulkley's approach to also incorporate several natural gas utilities. Ms. Bulkley also asserts I should have excluded American Water Works ("AWK") as the parent company of PAWC because it results in a circular logic problem. She also asserts I should exclude Essential Utilities ("WTRG") because of an announced merger with AWK. However, Ms. Bulkley also claims that "Mr. Garrett and I disagree that a proxy group that is comprised of only four companies is a sufficient sample size."[3]

Q. What is your response to Ms. Bulkley regarding the proxy group issue.

A. First, it is unclear what Ms. Bulkley means when she states that she and I disagree that a proxy group of only four companies is a sufficient sample size. My proxy group includes six water utilities because I decided to include AWK and WTRG. Moreover, even if I removed AWK and WTRG from my proxy group, it would have no impact on my CAPM result of 8.7% (and my ultimate recommended ROE). It would also have an insignificant impact on my DCF results.[4] Based on these facts alone, my disagreement with Ms. Bulkley on this issue is more theoretical than practical. Nonetheless, I originally decided to include AWK in my proxy group in order to increase the sample size. However, I did not apply any more or less weighting or consideration to the modeling results as they relate to AWK. Given the model results, there is no problem with the circular logic or feedback. Again, Ms. Bulkley's disagreement on this issue appears to be more conceptual than practical. In

[3] Rebuttal testimony of Ann E. Bulkley, p. 19, lines 377-378.

[4] See Exhibit DJG-11. Removing AWK's CAPM result of 8.8% and WTRG's CAPM result of 8.8% would not change the average CAPM result of 8.7%. This is primarily due to the low variance in the betas of the proxy group.

addition, it is not uncommon for parent companies to be included in the proxy groups for analyzing the subsidiary's cost of equity in regulatory proceedings. As long as no additional weight is given to the results of the parent company, then there are no problems with a circular reference logic. I have seen many utility witnesses and customer representatives take this approach. In fact, the CAPM and DCF Models are designed to be conducted on individual companies. Thus, one could argue that the parent company could be the only company in which the cost of equity modeling should be conducted. Under that approach, the subsidiary's cost of equity would equal the parent company's weighted average cost of capital. Regardless, the main drivers for the discrepancies between Ms. Bulkley's and my modeling results is primarily due to the inputs and assumptions to the models themselves, rather than the different compositions of the proxy groups. Particularly, the primary inputs on which we disagree are the growth rate input in the DCF Model, and the equity risk premium ("ERP") input in the CAPM, which are further discussed below.

Q. Does Ms. Bulkley discuss or account for any potential risk-reducing impacts of the proposed merger between AWK and WTRG?

A. No. Ms. Bulkley discusses the proposed merger as justification for excluding WTRG from the proxy group, even though it would have no material impact on the cost of equity modeling results (as discussed above). However, Ms. Bulkley also does not address any potential risk-reducing impacts of the proposed merger. A merger between AWK and WTRG could significantly reduce risk for the combined entity by improving financial stability, and geographic diversity. Intuitively, it would not make sense for entities to

consider a merger that management would anticipate could increase the combined entity's risk profile.

C. DCF Analysis

Q. Please summarize Ms. Bulkley's criticisms of your DCF Model.

A. Ms. Bulkley criticizes the analyst-growth variation of my DCF Model because I used dividend growth, rather than earnings growth, as my primary growth rate indicator in that model. In addition, Ms. Bulkley criticizes the sustainable growth variation of my DCF Model. Ms. Bulkley also claims that I do not rely on the results of my analyst-growth and sustainable growth DCF Model variations.

Q. Do you agree with Ms. Bulkley's criticisms regarding your applications of the DCF Models?

A. No. First, although my proposed ROE for PAWC is not equal to the results of my DCF Models, this does not mean that I ignore the results entirely. If I had given equal weight to all modeling results and set my authorized ROE recommendation equal to the average result of my models, my proposed ROE for PAWC would have been 8.3%.[5] Likewise, my proposed ROE of 8.7% falls between the two DCF Model results. In that regard, I did consider both DCF Model results as part of my recommended ROE for PAWC. However, as noted above, if I simply averaged the analyst-growth variation of my DCF Model (9.3%) and the results of my CAPM (8.7%), the result would be 9.0%.

[5] *See* Exhibit DJG-12 from my direct testimony.

Ms. Bulkley criticizes the fact that I considered dividend growth rather than earnings growth.[6] She raises various arguments on why earnings should be considered instead of dividends. However, it is important to reiterate that in the DCF Model, the "cash" that is being discounted is the dividends paid to investors. While it is true that dividends are paid from earnings, and earnings growth can be an indicator to consider when assessing the growth rate input in the DCF Model, the ultimate form of "cash flow" in the discounted cash flow model, is dividends. In that regard, it is perfectly appropriate and reasonable to consider dividend growth when conducting the DCF Model. In other words, I am considering the direct cash flow input to investors, while Ms. Bulkley is considering, in part, an indirect source from which the cash flow may be paid. Moreover, as discussed in my direct testimony, the short-term growth rate estimates published by analysts overstate the annual growth rate that can be achieved by the Company (or any utility company in general) over the long run. In other words, they are not sustainable.

Q. Ms. Bulkley claims that your analyst-growth DCF results are at the low end of authorized ROEs for water utilities. What is your response?

A. Again, Ms. Bulkley is comparing two entirely different metrics, and she is apparently suggesting that the modeling results should be altered or influenced somehow by a broad average of commission-authorized ROEs. When managers, analysts, investors, and academics conduct cost of equity analysis using either the CAPM or DCF Model, they do not compare the results to decisions from a regulatory body. Commission authorized ROEs (some of which are the results of settlements and other non-market factors) have no bearing

[6] *See* Rebuttal Testimony of Ann E. Bulkley, pp. 46-49.

on an objective market-based cost of equity analysis. Likewise, Ms. Bulkley's proposed ROE in this case would be at the high-end of commission authorized ROEs for gas and water utilities.

Q. Ms. Bulkley also discusses total factor productivity ("TFP") growth of the utility industry in response to your sustainable growth DCF Model. What is your response?

A. The DCF Model directly measures dividend growth. In that regard, TFP does not directly impact the DCF Model results. Also, this argument does not effectively rebut the claim that a domestic company's earnings cannot outpace GDP growth over the long run, which is closer to a mathematical fact than a theory. If a company could increase its earnings at an annual rate greater than the annual rate of GDP growth, then it would eventually surpass GDP, which is impossible (albeit after a long time).

Q. Please summarize Ms. Bulkley's criticism of your sustainable growth DCF Model

A. Ms. Bulkley states that the result of my sustainable growth rate DCF Model (6.8%) is well below any authorized ROE for a water utility in a regulatory jurisdiction comparable to Pennsylvania since at least 1980.[7]

Q. What is your response to Ms. Bulkley on this issue?

A. Ms. Bulkley's assertions on this issue are comparing two different metrics. While authorized ROEs in the U.S. should ideally be closer to utility market-based cost of equity, this is not the case. Estimating the cost of equity using an objective application of financial modeling is not dependent on the findings of any regulatory commission. While I am not proposing an authorized ROE in this case that is equivalent to my application of the

[7] *Id*. at p. 46, lines 863-873.

sustainable growth DCF Model in this case, I also do not reject the results of a model simply because they differ from typical authorized ROEs from regulatory commissions.

Q. Ms. Bulkley also disagrees with your GDP growth rate projection. What is your response?

A. Ms. Bulkley claims that my GDP growth rate projection of 3.7% "is only for the next 30 years" while the DCF growth rate input continues into perpetuity.[8] There are several problems with this argument. First, the growth rate input I used is published by the Congressional Budget Office, and a 30-year period of time is one of the longest GDP growth rate projections from an independent source I am aware of. Second, there should be no material difference, if any, between a GDP growth rate of 30 years, and one that is longer than 30 years. Finally, Ms. Bulkley's criticism on this issue seriously undermines her own DCF results, and highlights the problem with using analysts' short-term growth rate projections for the constant, perpetual growth rate input of the DCF Model. That is, Ms. Bulkley's application of the DCF Model assumes that utility companies can achieve earnings growth at a higher rate than projected GDP growth, in perpetuity (i.e., forever). In other words, it is highly unlikely that any of the sources she used for her short-term earnings growth rate projections would project and publish and perpetual growth rate in earnings or dividends that are nearly as high as the growth rates she used in her constant growth DCF Model.

[8] Rebuttal testimony of Ann E. Bulkley, p. 51, lines 975-977.

D. CAPM Analysis

Q. Please summarize Ms. Bulkley's criticisms of your CAPM analysis.

A. Ms. Bulkley primarily disagrees with my equity risk premium ("ERP") estimate, which is a key input to the CAPM. [9] She concludes that the ERP estimate used in my CAPM is unreasonable.[10]

Q. Please briefly reiterate the sources you considered for the ERP estimate.

A. The ERP is an important figure for financial and market analysts in all industries, not just utility regulation. Thus, many analysts, managers, investors, and academics are constantly studying and are concerned with obtaining a reliable and accurate estimate of this important number, which can be used in a variety of financial analyses, including the CAPM. All else held constant, a higher ERP will result in a higher indicated cost of equity and apply upward pressure on the authorized ROE. I considered three reliable and objective sources to include in my overall ERP estimate, including the result of the IESE Business School survey of experts, the estimate published by Kroll (formerly Duff & Phelps), and the estimate published by one of the world's leading experts on the issue, Dr. Aswath Damodaran. I also conducted and presented my own ERP estimate, the result of which is similar to those from the other sources. The figure below contrasts the ERP estimates from these sources with the ERP estimated by Ms. Bulkley.[11]

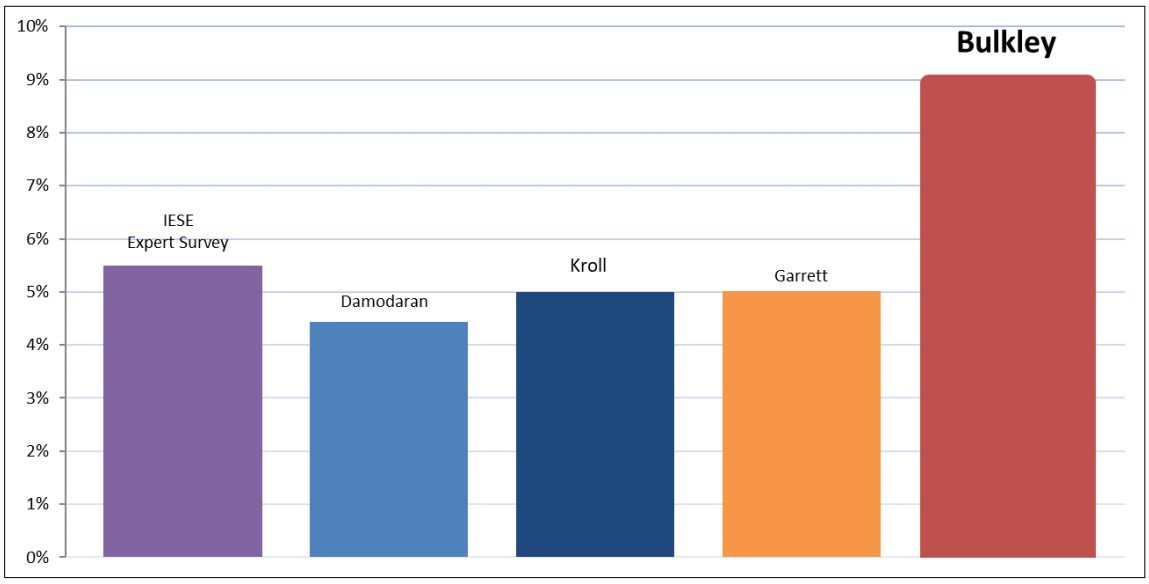
---

[9] See Rebuttal Testimony of Ann Bulkley, pp. 49-52.

[10] *Id*. at p. 59.

[11] *See also* Exhibit DJG-10.

Figure 1:
Equity Risk Premium Comparison



When compared with other independent sources for the ERP (as well as my estimate), which do not have a wide variance, Ms. Bulkley's ERP estimate is clearly not within the range of reasonableness. Ms. Bulkley offers various criticisms of these sources, and basically argues the Commission should accept her estimate over the opinions of hundreds of CEOs, CFOs, scholars, and an international corporate finance advising company. I would argue that investors are more likely to rely on these types of sources for the ERP than Ms. Bulkley's personal ERP estimate. Effectively, Ms. Bulkley is suggesting the Commission should adopt her ERP estimate over the opinions of thousands of unbiased experts, Kroll (a global financial advisory firm), and one of the world's leading experts on the ERP.

Q. Ms. Bulkley notes other commissions that have accepted the type of ERP analysis Ms. Bulkley presents in her testimony. What is your response?

A. In theory, the type of analysis conducted by Ms. Bulkley to estimate the ERP could produce a reasonable result, but only if reasonable growth rate estimates are used. To reiterate, Ms.

Bulkley unnecessarily conducted DCF Models on every company in the S&P 500 (about 500 companies) to estimate the ERP of the U.S. market. The reason why this is unnecessary is because S&P publishes aggregate data for the entire index, so there is no need to perform 500 separate calculations. The fact that another commission may have accepted this approach does not change the fact that Ms. Bulkley's ERP estimate is significantly higher than the opinion of thousands of experts as reported in the expert survey and the other objective, independent sources discussed above.

Q. Ms. Bulkley argues that the ERP reported by the expert survey, Kroll, and Dr. Damodaran did not accurately predict the equity premiums in individual years. What is your response?

A. Ms. Bulkley's arguments on this issue attempt to conflate two different metrics. An expected return is very different concept than an earned return. An earned return by a company, group of companies, or an entire market may fluctuate widely from year to year, similar to the boom-bust cycle of the economy. However, this does not have a direct impact on the required return of investors, which will be much more stable over time. For example, during the recession of 2008, the market had a negative return of about 40%. However, it would be impossible for an expected return or ERP estimate to ever be negative. According to Ms. Bulkley's logic, however, anyone during 2008 who estimated a positive ERP, required return, or cost of equity estimate would have made a "forecast error" like the three sources I relied on for the ERP estimate in this case. Earned returns and expected returns are entirely different concepts. An equity risk premium is not a prediction or forecast of market performance.

III. Depreciation

Q. Please summarize Mr. Spanos's criticisms regarding your use of the ALG procedure.

A. Mr. Spanos maintains that the equal life group ("ELG") procedure should be used in this case and not the average life group ("ALG") procedure I propose. He argues that the ELG procedure is more equitable because it recovers cost "over the actual, shorter, service lives."[12]

Q. What is your response to Mr. Spanos's testimony on this issue.

A. To reiterate, the Company's decision to use an atypical depreciation methodology instead of a more straight-forward and common methodology would result in current customers paying nearly $60 million per year more than they otherwise would. By simply authorizing the depreciation methodology used by the vast majority of jurisdictions, the Commission can provide current customers significant financial relief. Simply put, annual depreciation expense results from dividing the investment in capital assets in each account over the estimated remaining life. The ELG method proposed by the Company uses a much shorter life than the average life estimated for each account. For example, Mr. Spanos and I both agree that the average life for the assets in Account 331 (Mains) is 90 years. However, instead of dividing the investment over 90 years, the ELG method results in the costs being divided by less than 60 years. Granted, some of this discrepancy is due to using the remaining life technique, but regardless, the unusual nature of the ELG calculations results in customers paying more than $13 million per year for just this one account than they

[12] Rebuttal testimony of John J. Spanos, p. 21, line 18.

would pay under the ALG method.[13] Likewise, in the pending PPL case, only ALG depreciation rates were presented to the Commission for approval, including the rates proposed by Mr. Spanos in that case. In reading Mr. Spanos's testimony, one could get the impression that Mr. Spanos himself does not also use the ALG in most of the depreciation studies that he conducts. However, based on my experience, Mr. Spanos utilizes the ALG method in the vast majority of depreciation studies I have reviewed that have been sponsored by him and Gannett Fleming. This fact alone should negate any of Mr. Spanos's statements or inferences in his rebuttal testimony suggesting the ALG procedure might not be fair, accurate, or reasonable. In other words, his claim in this case that the ELG procedure is "more equitable"[14] would necessarily mean that he is using a *less* equitable procedure in his depreciation studies in other jurisdictions. In reality, the ALG procedure that Mr. Spanos uses a majority of the time is very fair and reasonable (assuming reasonable estimates are made for other depreciation parameters). Furthermore, I do not believe the financial well being of future customers is the primary motivation for the Company's proposal to use the ELG method. Mr. Spanos does not represent either present or future customers in this case, and he exclusively represents utility companies as I understand. Also, in Mr. Spanos's rebuttal testimony, I did not see him rebut the fact that compared with the ALG procedure, the ELG procedure will result in higher depreciation rates for current customers. Likewise, the ELG procedure will result in higher cash flows for the Company relative to the ALG procedure.

[13] *See* Exhibit DJG-19.

[14] *Id*. at p. 4, line 8.

Q. Mr. Spanos uses an example to argue why the ALG method results in assets having different lives than the average most of the time. What is your response?

A. On pages 10-11 of his rebuttal testimony, Mr. Spanos argues that the ALG method will result in assets having service lives different from the average most of the time. Mr. Spanos is simply not identifying a problem. When estimating any group of assets using an average life, of course some assets will survive shorter than the average, while others longer than the average. The ELG method proposed by Mr. Spanos produces even more questionable results. As discussed in the example above, even though the average life of the Company's water mains account is 90 years, Mr. Spanos proposes to recover those costs over less than 60 years. It does not take a depreciation expert to conclude that this ultimate outcome is problematic, despite the technical nuances discussed by Mr. Spanos. Simply put, the ELG method results in higher costs for customers, and higher cash flow for the Company, and it has little to do with mathematical accuracy.

Q. Mr. Spanos argues that the ELG method is the predominant and longstanding practice in Pennsylvania. What is your response?

A. Mr. Spanos asserts that I have not provided evidence to change the "predominant and longstanding" practice in Pennsylvania" regarding use of the ELG method. However, the ELG method is clearly not as sacred as Mr. Spanos describes since he just recommended ALG depreciation rates in the pending PPL case before the Commission. Since no party to that case disagreed with his use of ALG depreciation rates, this means that whatever depreciation rates are ultimately approved by the Commission in the PPL case will be based on the ALG method. If PPL customers will receive the benefit of fairer, ALG depreciation rates, it makes sense that PAWC customers should too.

Q. Did Mr. Spanos rebut the fact that current customers would pay more for the Company's assets relative to future customers under the ELG procedure?

A. No. This point is undisputable and is proven mathematically in both Mr. Spanos's testimony and my testimony. Under the ELG procedure proposed by Mr. Spanos (in this jurisdiction), current customers would effectively be subsidizing future customers by paying a larger proportionate share of what is essentially the same asset base. This was demonstrated in an example presented in my direct testimony. In that example, there were two units being depreciated – one with an original cost of $4,000 and a 4-year life and the second with an original cost of $6,000 and an 8-year life. Thus, the average life of this group is 6.4 years. Under the ALG procedure, the depreciation rate is 15.625% per year (1/6.4 = 15.625%). Under the ELG procedure, however, there are higher rates and accrual amounts during the earlier years. In reality, the Company has numerous units of property that are depreciated on a group basis in each account. Under the ELG procedure, customers rates (not just depreciation rates), would need to be adjusted every year in order for the ELG procedure to produce accurate depreciation rates. Since that is not practical, the vast majority of jurisdictions have adopted the ALG procedure.

Q. Mr. Spanos claims that the ALG method will result in higher rates over time and results in intergenerational inequity. What is your response to these arguments?

A. I do not agree with Mr. Spanos's narrative on these issues. Again, Mr. Spanos is attempting to position himself as a representative not only for customers, but very specifically for future customers. In reality, the Company's proposal to use the ELG method results in higher cash flow for the Company in the present, which is likely the primary motivation for the Company's proposal to use the ELG method. From my point of view, it is the ELG method, not the ALG method, that results in intergenerational inequity for customers. To

say otherwise would mean that the vast majority of regulatory jurisdictions (using the ALG method) are authorizing inequitable depreciation rates, and have been doing so for decades, which cannot be accurate. Also, Mr. Spanos represents neither present nor future customers in this case. He has no standing on which to suggest that his proposals are in the best interest of customers. More technically speaking, Mr. Spanos's asserts related to depreciation expense and its relationship to rate base also appears to ignore that customers, like investors, also experience the time value of money. While it is true that customers saving more in depreciation expense today, all else held constant, will result in higher rate base, this does not change my opinion that current customers are *overpaying* under ELG depreciation rates. Thus, if the Commission adopts the ELG method, it will result in current customers paying fairer rates in my opinion, despite the mathematical impact to rate base.

Q. Mr. Spanos suggests that decisions from the Indiana and Kentucky commission are either distinguishable or not persuasive because PAWC is not experiencing a high investment cycle or a changed landscape. What is your response?

A. Mr. Spanos's arguments here deflect from the real issue. That is, by using an atypical depreciation methodology, and one that differs from the methodology he just proposed in the pending PPL case, Mr. Spanos is proposing to change customers with nearly $60 million dollars of additional depreciation expense per year. The Commission should focus on that fact rather than whether there is a "changed landscape."[15]

[15] *See* Rebuttal Testimony of John J. Spanos, p. 28, line 4.

Q. Mr. Spanos cites a New York case to suggest a trend towards the ELG method. How do you respond?

A. Mr. Spanos claimed that New York is "also considering ELG for similar reasons in an active case in New York."[16] However, the active case that Mr. Spanos refers to in which a switch from ALG to ELG was proposed resulted in a settlement which did not include a switch from ALG to ELG.[17]

Q. Mr. Spanos claims that you calculated your proposed ALG depreciation rates incorrectly. What is your response to these assertions?

A. Mr. Spanos argues that I did not calculate the ALG depreciation rates correctly because I used the same book reserve used by Mr. Spanos. The resulting depreciation rates are primarily driven by the service life and net salvage estimates for each account, and in this case, the depreciation methodology used to calculate the depreciation rates. Based on my recollection of the cases in which I have participated, the issues Mr. Spanos raises in this case regarding the book reserve have not been raised by Mr. Spanos or other witnesses from his company in other jurisdictions. The other error Mr. Spanos mentions regarding the impact of ELG depreciation rates compared with ALG depreciation rates was addressed in the corrected version of my direct testimony. The Commission's primary focus should be on the most appropriate depreciation methodology to apply in this case.

---

[16] Rebuttal Testimony of John J. Spanos, p. 6, lines 9-10.

[17] * Proceeding on Motion of the Commission as to the Rates, Charges, Rules and Regulations of Niagra Mohawk Power Corporation d/b/a National Grid for Gas Service, Case No. 24-G-0323, Order at 17-22 (Aug. 14, 2025); Proceeding on Motion of the Commission as to the Rates, Charges, Rules and Regulations of Niagra Mohawk Power Corporation d/b/a National Grid for Gas Service, Case No. 24-E-0322, Order at 17-22 (Aug. 14, 2025).

Q. Mr. Spanos claims that you failed to consider how service life will affect the book reserve. How do you respond?

A. I did not propose adjustments to any of the service lives or reserve amounts proposed by Mr. Spanos in this case. Thus, the primary difference in our positions is due to the differing depreciation methodologies of the ALG and ELG method.

Q. Does this conclude your surrebuttal testimony?

A. Yes.

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	:	
	:	
v.	:	Docket Nos. R-2025-3057983 (W)
	:	R-2025-3058051 (WW)
Pennsylvania-American Water Company	:	
	:	

VERIFICATION

I, David J. Garrett, hereby state that the facts above set forth in my Surrebuttal Testimony, OCA Statement No. 2SR, 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 herein are made subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

DATED: March 13, 2026

Signature: */s/ David J. Garrett*
David J. Garrett

Address: 101 Park Avenue
Suite 1125
Oklahoma City, OK 73120

OCA STATEMENT 3SR

BEFORE THE

PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	**)**	**Docket Nos. R-2025-3057983 (Water)**
	)	**R-2025-3058051 (Wastewater)**
v.	**)**	
	)	
Pennsylvania-American Water Company	**)**	

SURREBUTTAL TESTIMONY OF

JEROME D. MIERZWA

ON BEHALF OF THE

PENNSYLVANIA OFFICE OF CONSUMER ADVOCATE

MARCH 13, 2026

EXETER
ASSOCIATES, INC.
10480 Little Patuxent Parkway, Suite 300
Columbia, Maryland 21044

TABLE OF CONTENTS

Page

I. INTRODUCTION 1

II. PAWC WITNESS: GREGORY R. HERBERT 1

III. PAWC WITNESS: MAX MCCLELLAN 7

IV. OSBA WITNESS: JOSEPH KUBAS 9

V. CLEVELAND – CLIFFS WITNESS: RICHARD A. BAUDINO 12

VI. VICTORY WITNESS: SCOTT SHIRLEY 12

I. INTRODUCTION

Q. WOULD YOU PLEASE STATE YOUR NAME AND BUSINESS ADDRESS?

A. My name is Jerome D. Mierzwa. I am a Principal at and the President of Exeter Associates, Inc. ("Exeter"). My business address is 10480 Little Patuxent Parkway, Suite 300, Columbia, Maryland 21044. Exeter specializes in providing public utility-related consulting services.

Q. HAVE YOU PREVIOUSLY TESTIFIED IN THIS PROCEEDING?

A. Yes. My direct testimony was submitted in this proceeding as OCA Statement 3 on January 30, 2026, and my rebuttal testimony was submitted as OCA Statement 3R on February 27, 2026.

Q. WHAT IS THE PURPOSE OF YOUR SURREBUTTAL TESTIMONY?

A. The purpose of my rebuttal testimony is to respond to certain aspects of the rebuttal testimony presented by Pennsylvania-American Water Company ("PAWC" or "Company") witnesses Gregory R. Herbert and Max McClellan; Office of Small Business Advocate ("OSBA") witness Joseph Kubas; Cleveland-Cliffs Steel ("Cleveland-Cliffs) witness Richard A. Baudino; and Victory Brewing Company ("Victory") witness Scott Shirley. Each of these witnesses addresses cost allocation, revenue allocation, and rate design issues.

II. PAWC WITNESS: GREGORY R. HERBERT

Q. ON PAGES 14 THROUGH 17 OF YOUR DIRECT TESTIMONY, YOU FOUND THE SYSTEM-WIDE MAXIMUM DAY AND MAXIMUM HOUR EXTRA CAPACITY DEMAND FACTORS USED IN THE COMPANY'S WATER CLASS COST OF SERVICE ("CCOS") STUDY TO BE OUTDATED AND RECOMMENDED ALTERNATIVES TO THOSE FACTORS. DOES MR.

HERBET AGREE THAT THE ALTERNATIVE MAXIMUM DAY EXTRA CAPACITY FACTOR YOU HAVE PROPOSED IS REASONABLE?

A. No. My alternative maximum day extra capacity factor was based on the highest factor experienced by PAWC in the last 14 years. Mr. Herbert claims that water systems must be designed to meet the highest peak demand that potentially could be experienced, not just the highest peak demand that was experienced within a recent historical period. He claims it is not reasonable to ignore the maximum day ratios that the Company has actually experienced by proposing a limit (14 years) on the data set that is examined to determine the system maximum day ratio.[1]

Q. WHAT IS YOUR RESPONSE TO MR. HERBERT?

A. As shown in PAWC Exhibit No. 12-A, Schedule G (page 42), PAWC's actual annual maximum day extra capacity demand factor has been approximately 1.2 for the last 14 years, and the maximum day extra capacity demand factor of 1.4 utilized by the Company has not been experienced since 1999, which was over 25 years ago. With respect to the developing demand factors to be used in a CCOS study, the American Water Works Association ("AWWA") M1 Manual indicates that "demand data over a representative number of recent years" should be utilized.[2] I believe that 14 years meets the standard identified in the AWWA M1 Manual, and the more than 25 years relied upon by PAWC does not. Demands experienced over 25 years ago are not representative of current demands.

With respect to the need to meet the highest peak demand ever actually experienced by the Company, PAWC witness Max McClellan presents evidence on pages 50-56 of his direct testimony that indicates that there has been a pervasive decline in customer usage over the last 10 years, and Mr. McClellan believes that this trend will continue. Given the

[1] PAWC Statement No. 12-R, p. 3, line 18 - p. 4, line 6.
[2] AWWA M1 Manual, p. 373.

declines in customer usage identified by Mr. McClellan, it is unreasonable to assume that extra capacity demand factors and usage will return to historic levels experienced over 25 years ago.

Q. ON PAGE 4 OF HIS REBUTTAL TESTIMONY, MR. HERBERT NOTES THAT WATER USAGE ON THE MAXIMUM DAY OF 2022, 2023, AND 2024 IN SEVERAL AREAS WITHIN THE COMPANY'S OVERALL WATER OPERATIONS WAS MORE THAN 1.4 TIMES THE AVERAGE USAGE FOR THAT YEAR. WHAT IS YOUR RESPONSE?

A. It is not surprising that maximum day usage in several areas was more than 1.4 times the average usage. Under the base-extra capacity method set forth in the AWWA M1 Manual, the maximum day usage in specific areas are not considered, the system-wide maximum day usage is considered. Also considered are the maximum day usage of the individual customer classes. Therefore, maximum day usage in individual areas is not relevant.

Q. ON PAGES 4 AND 5 OF HIS REBUTTAL TESTIMONY, MR. HERBERT ALSO NOTES THAT WITH RESPECT TO A SYSTEM-WIDE MAXIMUM DAY EXTRA CAPACITY FACTOR, THE AWWA M1 MANUAL SETS FORTH A METHOD TO ASSESS THE REASONABLENESS OF EXTRA CAPACITY FACTORS. PLEASE DESCRIBE THIS METHOD.

A. The AWWA M1 Manual sets forth a calculation of a diversity ratio which provides for the assessment of the reasonableness of extra capacity factors. The diversity ratio is calculated by dividing the non-coincident peaking factor of the customer classes served by the water utility by the system peaking factor. Mr. Herbert claims that the AWWA M1 Manual recommends that a diversity ratio should be between 1.1 and 1.4.[3]

[3] PAWC Statement No. 12-R, p. 4, lines 21-22.

Q. ACCORDING TO MR. HERBERT, HOW DOES THE DIVERSITY RATIO FOR THE MAXIMUM DAY EXTRA CAPACITY FACTOR YOU HAVE PROPOSED COMPARE TO THE DIVERSITY RATIO OF THE COMPANY'S FACTOR?

A. Mr. Herbert claims that the diversity ratio for the maximum day extra capacity factor of 1.2 which I have proposed is 1.62, while the diversity ratio for the factor of 1.4 utilized in the Company's CCOS study is 1.39. Because the diversity factor of the maximum day factor I have proposed is not within the 1.1 to 1.4 range suggested in the AWWA M1 Manual, Mr. Herbert finds my proposed 1.2 maximum day demand factor to be unreasonable.[4]

Q. WHAT IS YOUR RESPONSE TO MR. HERBERT?

A. First, with respect to the diversity ratio, the AWWA M1 Manual states that: "[t]he system diversity ratio is *often* in the range of 1.1 to 1.4, though different system diversity measures may arise for communities with more atypical customer usage patterns."[5] Therefore, because the diversity ratio associated with my maximum day demand factor is slightly outside the 1.1 to 1.4 range does not mean my demand factor is unreasonable.

In addition, to calculate the maximum day diversity ratio, the projected non-coincident peak demands of each customer class are totaled and divided by the system coincident maximum day demand. The non-coincident peak demands of each customer class reflected in the Company's CCOS study are based on a demand analysis prepared by the Company for the years 2013-2015 and, therefore, do not reflect the declines in customer usage identified by Mr. McClellan previously discussed. Adjusting the non-coincident maximum day peak demands of each customer class would certainly reduce the diversity

[4] PAWC Statement No. 12-R, p. 5, line 23 - p. 6, line 6.
[5] AWWA M1 Manual, p. 377 (emphasis added).

ratio of 1.62 associated with my system-wide maximum day demand factor recommendation.

Q. WHAT IS MR. HERBERT'S RESPONSE TO YOUR PROPOSAL TO USE A SYSTEM-WIDE MAXIMUM HOUR EXTRA CAPACITY DEMAND FACTOR OF 1.5 IN LIEU OF THE 2.1 FACTOR REFLECTED IN THE COMPANY'S CCOS STUDY?

A. Mr. Herbert claims that the 2.1 factor was calculated by PAWC based on a detailed analysis of actual maximum hour demands. Mr. Herbert claims that the Company has attempted to examine updated maximum hour data and develop updated maximum hour extra capacity factors, but these were significant data gaps that created challenges to accurately measure maximum hour demands. Therefore, he maintains it is reasonable to continue to use the maximum hour extra capacity demand factor of 2.1.[6]

Q. WHAT IS YOUR RESPONSE TO MR. HERBERT'S RECOMMENDATION TO CONTINUE TO USE THE SYSTEM-WIDE MAXIMUM HOUR DEMAND FACTOR OF 2.1?

A. The concern I have with PAWC's maximum hour demand factor of 2.1 is that it was based on an analysis of customer demands conducted in 1988 and, therefore, does not reflect the declines in customer usage that have occurred since the analysis was conducted. My recommended maximum hour extra capacity demand ratios of 1.5 is based on the data presented in Table 2 on page 12 of Mr. Herbert's direct testimony which reflects maximum hour demands for the years 2021-2024. The data presented in Table 2 has been adjusted to exclude hourly data for missing data gaps. The 1.5 maximum hour extra capacity demand ratio that I have recommended reflects the highest factor for the most recent three years data was available.

[6] PAWC Statement No. 12-R, p. 6, lines 11-20.

Q. HAVE YOU PROPOSED UPDATING THE MAXIMUM DAY AND HOUR EXTRA CAPACITY FACTORS USED BY A WATER UTILITY IN ITS CCOS STUDY IN ANOTHER RECENT PROCEEDING AND DID THE COMMISSION ACCEPT YOUR PROPOSED FACTORS IN THAT PROCEEDING?

A. Yes. In York Water Company ("York") Docket No. R-2025-3053442, I proposed updating the system-wide maximum day and maximum hour extra capacity factors used by York in its CCOS study to reflect the highest system-wide factors experienced in the last 10 years. In its Opinion and Order in that proceeding, the Commission adopted the system-wide maximum day and maximum hour demand factors that I had proposed on behalf of the OCA because the factors used by York in its CCOS study were outdated.[7]

Q. ON PAGE 10 OF HIS REBUTTAL TESTIMONY MR. HERBERT NOTES THAT YOU TAKE ISSUE WITH THE COMPANY'S SSS AND CSS CUSTOMER CHARGE CALCULATIONS. WHAT WAS YOUR CONCERN WITH THE COMPANY'S CUSTOMER CHARGE CALCULATIONS?

A. As discussed on page 44 of my direct testimony, my concern with the Company's customer charge calculations was that they included infiltration and inflows ("I/I") costs. I/I is largely a function of precipitation which does not vary with the addition or subtraction of a customer and, therefore, should not be included in a customer charge calculation.

Q. DOES MR. HERBERT AGREE THAT I/I SHOULD BE EXCLUDED FROM A CUSTOMER CHARGE CALCULATION?

A. No. Mr. Herbert agrees that I/I is primarily driven by precipitation, and because of this, claims there is no meaningful relationship between I/I and a customer's wastewater flows. For this reason, he contends that it is inappropriate to recover I/I-related costs through

[7] Opinion and Order entered February 26, 2026, Docket Nos. R-2025-3053442, page 73.

volumetric rates. Therefore, he contends that my proposal to exclude I/I costs from the customer charge calculation should be rejected.[8]

Q. DO YOU AGREE WITH MR. HERBERT THAT I/I COSTS SHOULD BE INCLUDED IN THE CUSTOMER CHARGE CALCULATION?

A. No. Clearly, the most critical factor affecting the amount of I/I on PAWC's wastewater system is precipitation. Precipitation is not affected by the number of customers served by PAWC. Therefore, I/I related costs should not be included in a customer charge calculation.

III. PAWC WITNESS: MAX MCCLELLAN

Q. WHAT DID YOU RECOMMEND IN YOUR DIRECT TESTIMONY CONCERNING THE COMPANY'S PROPOSED DEDUCT ADJUSTMENT?

A. In my direct testimony I noted that Residential customer outdoor water usage during the summer is not sufficiently significant enough to justify adopting a deduct adjustment and the resulting increase in volumetric rates and, therefore, the deduct adjustment should be rejected.[9]

Q. DOES MR. MCCLELLAN AGREE WITH YOUR RECOMMENDATION CONCERNING THE DEDUCT ADJUSTMENT?

A. No. He claims it is inaccurate to assert that Residential water usage during the summer is not significant enough to justify adopting a deduct adjustment.

Q. WHAT IS YOUR RESPONSE TO MR. MCCLELLAN?

A. As demonstrated by Table 6 and described on pages 40-41 of my direct testimony, the differences between winter period average water usage and water usage during the remaining months of the year by PAWC's Residential customer is immaterial. In addition, during the summer months, customers are likely to take more showers and wash clothes

[8] PAWC Statement No. 12-R, p. 11, lines 5-17.
[9] PAWC Statement No. 10R, p. 32, lines 19-20.

more often, which would account for the overall differences in winter usage and the usage during remaining months of the year. Water used to take a shower or wash clothes would not be considered outdoor water usage.

Q. ON PAGE 41 OF HIS REBUTTAL TESTIMONY, MR. MCCLELLAN AND NOTES THAT IN YOUR DIRECT TESTIMONY YOU RECOMMENDED THAT THE MONTHLY RESIDENTIAL CUSTOMER CHARGE FOR MOST SSS RATE ZONES BE SET AT $15 PER MONTH. DOES MR. MC CLELLAN AGREE WITH YOUR PROPOSAL?

A. No. As noted by Mr. McClellan, my recommendation to set the monthly Residential customer charge for most SSS rate zones at $15 per month is based on a customer charge calculation that excludes I/I costs. As previously explained in responding to Mr. Herbert, I/I costs are primarily a function of precipitation. Therefore, since I/I costs are not primarily dependent on the number of customers served, they should be excluded from the calculation of customer costs. Excluding I/I costs from the calculation of SSS customer charges justifies a $15 Residential customer charge.

Q. ON PAGE 48 OF HIS REBUTTAL TESTIMONY MR. MCCLELLAN NOTES THAT IN YOUR DIRECT TESTIMONY YOU HAVE PROPOSED TO MAINTAIN THE MONTHLY RESIDENTIAL CUSTOMER CHARGE FOR CSS RATE ZONE 2. DOES HE AGREE WITH YOUR PROPOSAL?

A. No. Like my recommendation concerning most SSS rate zone monthly Residential customer charges, my recommendation to maintain Residential customer charges for Rate Zone 2 is based on a customer charge calculation that excludes I/I costs. As previously explained, I/I costs are primarily a function of precipitation and, therefore, should be excluded from the calculation of a customer charge. Excluding I/I costs from the

calculation of the monthly Residential CSS customer charge for Rate Zone 2 justifies maintaining the current customer charge.

IV. OSBA WITNESS: JOSEPH KUBAS

Q. ON PAGE 26 OF YOUR DIRECT TESTIMONY, YOU ADDRESS YOUR RECOMMENDATIONS CONCERNING THE ALLOCATION OF THE WASTEWATER ACT 11 SUBSIDY TO WATER SERVICE. DOES MR. KUBAS SUMMARIZE YOUR ACT 11 RECOMMENDATION IN THIS REBUTTAL TESTIMONY?

A. Yes. On page 9 of his rebuttal testimony, Mr. Kubas claims that I have recommended that SSS and CSS Wastewater Operations receive no Act 11 subsidy and that BASA and EBMA Wastewater Operations should receive a subsidy. This aspect of Mr. Kubas' summary is correct. However, with respect to CSS Operations, Mr. Kubas believes it is my proposal to increase Rate Zone 2a (Scranton) rates to match the rates in Rate Zone 2, and this results in CSS Operations providing a subsidy of $4.7 million rather than receiving a subsidy. In total, Mr. Kubas contends that according to his calculations, my total Act 11 subsidy is $28.5 million.

Q. IS MR. KUBAS CORRECT THAT YOUR TOTAL PROPOSED ACT 11 SUBSIDY IS $28.5 MILLION?

A. No. It is not my proposal to increase Rate Zone 2a (Scranton) rates to match the rates in Rate Zone 2. As explained on page 36 of my direct testimony, I recommend that Rate Zone 2a (Scranton) rates and Rate Zone 2 rates each be assigned a percentage increase equal to the overall percentage increase authorized by the Commission for CSS Operations, exclusive of any Act 11 subsidy. Under this approach, current Rate Zone 2a (Scranton) rates and Rate Zone 2 rates would not match, but would increase by the same percentage. PAWC initially proposed no increase for Rate Zone 2a (Scranton). Since CSS Operations

would not be providing the $4.7 million subsidy identified by Mr. Kubas, as identified on Table 2-R of my rebuttal testimony, my total proposed Act 11 allocation subsidy is $33.2 million for wastewater service. While I believe it is best to reduce the Act 11 subsidies provided in this proceeding to the maximum extent possible, I don't find it reasonable to now have CSS Operations provide a subsidy when, as determined in PAWC's most recent prior rate case, it is currently receiving a subsidy.

Q. ON PAGE 9 OF HIS REBUTTAL TESTIMONY, MR. KUBAS SUMMARIZES YOUR SSS AND CSS OPERATIONS REVENUE ALLOCATIONS AND SCALE BACK RECOMMENDATIONS. IS THIS SUMMARY GENERALLY ACCURATE?

A. Yes. As noted by Mr. Kubas, I recommend that the SSS and CSS Operations revenue increases authorized by the Commission in this proceeding be assigned to each rate zone based on the percentage share of the increase initially assigned to each rate zone by PAWC. I also recommend that the SSS and CSS Operations revenue increases authorized by the Commission be assigned to each rate class generally based upon the same percentage increase PAWC proposed for each customer class.

Q. DOES MR. KUBAS AGREE WITH YOUR SSS REVENUE ALLOCATION AND SCALE BACK RECOMMENDATIONS FOR SSS OPERATIONS?

A. No. As explained on page 10 of his rebuttal testimony, Mr. Kubas continues to support his SSS Operations revenue allocation and scale back recommendations. He contends that my recommendations fail to address the important goal of consolidating rates within the SSS rate zones.

Q. WHAT IS YOUR RESPONSE TO MR. KUBAS' CLAIMS THAT YOUR RECOMMENDATIONS FAIL TO ADDRESS THE IMPORTANT GOAL OF CONSOLIDATING RATES WITHIN THE SSS RATE ZONES?

A. I agree with Mr. Kubas that the consolidation of PAWC's various rates for water and wastewater service across rate zones is an important goal. This is a goal currently being pursued by the Company as discussed in various sections of the Company's application and the wastewater rates proposed by PAWC in this proceeding are designed to assist in pursuing this goal.[10] To assist in achieving this goal, I have proposed scale backs of the revenue allocations to the wastewater rate zones and customer classes based on the revenue allocations initially proposed by the Company. Mr. Kubas has provided no evidence to demonstrate that his proposed revenue allocations and scale backs would better provide for consolidation.

Q. DOES MR. KUBAS AGREE WITH YOUR CSS REVENUE ALLOCATION AND SCALE BACK RECOMMENDATIONS FOR CSS OPERATIONS?

A. No. PAWC has proposed that CSS Operations receive an Act 11 subsidy of $7.1 million that is paid for by water customers. I have proposed to eliminate this subsidy in its entirety. As previously explained, I have not proposed to have CSS Operations subsidize other wastewater customers by $4.7 million as Mr. Kubas claims. As initially presented in his direct testimony and as discussed on page 11 of his rebuttal testimony Mr. Kubas is proposing that CSS Operations provide an $11.6 million subsidy to other Wastewater Operations.

Q. DO YOU AGREE WITH MR. KUBAS THAT CSS OPERATIONS SHOULD BE SUBSIDIZING OTHER WASTEWATER OPERATIONS?

A. No. I believe that subsidies should be minimized and eliminated to the extent possible and that it would be unreasonable to modify PAWC's proposal to provide CSS Operations with $7.1 million subsidy, and to then to require CSS Operations to provide a subsidy to other wastewater operations.

[10] PAWC Statement No. 2, p. 24 and p. 26; PAWC Statement No. 10, p. 22

V. CLEVELAND – CLIFFS WITNESS: RICHARD A. BAUDINO

Q. DOES MR. BAUDINO AGREE WITH HOW YOUR PROPOSED CLASS REVENUE ALLOCATION FOR WATER SERVICE?

A. No. Mr. Baudino claims my proposed class revenue allocation for water is based on a class cost of service study which is flawed because it utilizes my recommended system-wide maximum day and maximum hour extra capacity demand factors. Therefore, he recommends that my proposed class revenue allocation should be rejected.

Q. WHAT IS THE BASIS FOR MR. BAUDINO'S CLAIM THAT YOUR RECOMMENDED SYSTEM-WIDE EXTRA CAPACITY DEMAND FACTORS SHOULD NOT BE UTILIZED IN THIS PROCEEDING?

A. To support his recommendation that my recommended system-wide extra capacity demand factors should not be utilized in this proceeding, Mr. Baudino cites certain pages of the direct testimony of PAWC witness Gregroy R. Herbert. As previously explained in my direct testimony, and in this surrebuttal testimony, the system-wide extra capacity demand factors proposed by Mr. Herbert which he has used in PAWC's CCOS study are outdated, and PAWC's CCOS study should be modified to reflect the factors I have proposed in this proceeding. The CCOS study I present in this proceeding utilizes my updated proposed factors and should be used to determine class revenue allocations in this proceeding. Mr. Baudino presents no evidence to demonstrate that the factors utilized by PAWC in its CCOS study are not outdated.

VI. VICTORY WITNESS: SCOTT SHIRLEY

Q. WHAT DOES MR. SHIRLEY RECOMMEND WITH RESPECT TO THE CCOS STUDY AND REVENUE ALLOCATION YOU PRESENT IN THIS PROCEEDING?

A. On page 3 of his rebuttal testimony, Mr. Shirley notes that under the CCOS study and revenue allocation I present in this proceeding, Industrial customers like Victory would receive an increase in rates of 24.1% compared to the 11.9% increase proposed by PAWC. Therefore, he recommends that my CCOS study and revenue allocation should be rejected.

Q. WHAT IS YOUR RESPONSE TO MR. SHIRLEY?

A. The 11.9% increase proposed by PAWC for Industrial customer is based on a CCOS study that utilizes outdated extra capacity demand factors. Therefore, the results of PAWC's CCOS study should be rejected. The CCOS study I sponsor is based on updated extra capacity demand factors and, therefore, more accurately reflect PAWC's costs of serving the various customer classes and should be utilized to set rates in this proceeding. Mr. Shirely did not find my updated extra capacity demand factors to be unreasonable.

Q. DOES THIS CONCLUDE YOUR SURREBUTTAL TESTIMONY?

A. Yes, it does. I reserve the right to update my testimony based on additional information received in the course of discovery.

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	:	
	:	
v.	:	Docket Nos. R-2025-3057983 (W)
	:	R-2025-3058051 (WW)
Pennsylvania-American Water Company	:	
	:	

VERIFICATION

I, Jerome D. Mierzwa, hereby state that the facts above set forth in my Surrebuttal Testimony, OCA Statement No. 3SR, 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 herein are made subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

DATED: March 13, 2026

Signature: */s/ Jerome D. Mierzwa*
Jerome D. Mierzwa

Address: Exeter Associates, Inc.
10480 Little Patuxent Parkway
Suite 300
Columbia, MD 21044-3575

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	:	Docket No. R-2025-3057983 (water)
v.	:	Docket No. R-2025-3058051 (wastewater)
Pennsylvania American Water Company	:	

Surrebuttal Testimony of Roger Colton

on behalf of the

Pennsylvania Office of Consumer Advocate

OCA Statement 4SR

Date Served: March 16, 2026

Table of Contents

Part 1.	Response to PAWC Rebuttal Witness Debra Ather	1
Part 2.	Response to PAWC Rebuttal Witness Max McClellan	12
Part 3.	Response to PAWC Rebuttal Witness Matthew Prine	16
Part 4.	Response to PAWC Rebuttal Witness Christine Chard.	26

Q. PLEASE STATE YOUR NAME AND ADDRESS.

A. My name is Roger Colton. My address is 34 Warwick Road, Belmont, Massachusetts.

Q. ARE YOU THE SAME ROGER COLTON WHO PREVIOUSLY PREPARED PRE-FILED WRITTEN DIRECT TESTIMONY ON BEHALF OF THE OFFICE OF CONSUMER ADVOCATE IN THIS PROCEEDING?

A. Yes, I am.

Q. PLEASE EXPLAIN THE PURPOSE OF YOUR SURREBUTTAL TESTIMONY.

A. The purpose of my Surrebuttal Testimony is to respond to the testimony filed by the following Pennsylvania American Water Company (PAWC) rebuttal witnesses:

- Rebuttal Witness Debra Ather;
- Rebuttal Witness Max McClelland;
- Rebuttal Witness Mathew Prine; and
- Rebuttal Witness Christina Chard.

Q. DO YOU OFFER ANY NEW OR REVISED RECOMMENDATIONS IN YOUR SURREBUTTAL TESTIMONY THAT WERE NOT FIRST OFFERED IN YOUR DIRECT TESTIMONY?

A. No, I do not.

Part 1. Response to PAWC Rebuttal Witness Debra Ather.

Q. PLEASE EXPLAIN THE PURPOSE OF THIS SECTION OF YOUR TESTIMONY.

A. In this section of my Surrebuttal Testimony, I respond to the testimony of PAWC Rebuttal Witness Debra Ather. Ms. Ather's rebuttal testimony seeks to justify the

"affordability" analysis that was critiqued by the Direct Testimony both of myself and of CAUSE-PA witness Harry Geller. I find that Ms. Ather does not adequately respond to the critiques that were offered of her "affordability" analysis.

Q. DO YOU HAVE ANY OVER-ARCHING OBSERVATION THAT YOU MAKE OF MS. ATHER'S AFFORDABILITY ANALYSIS?

A. Yes, as I noted in my Direct Testimony, Ms. Ather's testimony[1] regarding "affordability" is not used to support any particular decision presented by PAWC for Commission deliberation in this proceeding. In particular, Ms. Ather's affordability analysis is not used to support the Company's proposed low-income discounts. Ms. Ather's Rebuttal Testimony did not dispute this observation regarding her Direct Testimony.

Nonetheless, as I further noted in my Direct Testimony, and reiterate here, the Commission should be aware of the fallacies inherent in Ms. Ather's affordability analysis. In considering issues such as the return on equity, rate design, or other similar issues, the Commission should not make a decision based on PAWC's assertion that total bills being charged to customers might be high because they exceed the Company's unsupported and undefined assertion of what is "necessary and reasonable to meet basic household needs for drinking, cooking, sanitation, general health service."

Q. ARE THERE OTHER ASPECTS OF YOUR DIRECT TESTIMONY WHICH MS. ATHER CHOSE NOT TO DISPUTE?

A. Yes. Ms. Ather did not dispute, nor seek to rebut, my finding that the sharp increase in PAWC rates since 2020 have exceeded increases in customer income, particularly for

[1] PAWC St. 9, Direct Testimony of Debra Ather.

low- and moderate-income customers. As I observed, and Ms. Ather did not dispute, any increase approved as part of this proceeding will increase prices even further. The constant flow of rate increases being sought by PAWC is difficult not only for ratepayers generally, but for the delivery of affordability assistance to low-income ratepayers in particular. Ms. Ather did not dispute my finding that given the rates and rate design proposed by PAWC in this proceeding, PAWC rates will be unaffordable for all PAWC households with annual gross income at or below $60,000.

She did not dispute my finding that the depth of unaffordability (*i.e.*, the extent to which bills exceed an affordable burden) becomes particularly substantial. PAWC bills, for example, impose twice the affordable burden (3.9% at proposed rates) even at an annual gross income of $30,000 to $35,000, while bills range from more than 3.5 times (7.3% at income of $15,000 to $20,000 at proposed rates) to nearly thirteen times (25.5%) the affordable burden when income falls to less than $10,000.

Finally, while Ms. Ather asserts that PAWC responds to the unaffordability of its rates to low-income customers through its Bill Discount Program (BDP) and Arrearage Forgiveness Program (AFP) –I will address the needed improvements in those programs in more detail below—she does not even attempt to address the unaffordability of PAWC bills to more moderate income customers, as identified through my discussion of ALICE (Asset-Limited, Income Constrained, Employed) customers.

Q. WHAT IS THE FIRST ASPECT OF MS. ATHER'S REBUTTAL TESTIMONY TO WHICH YOU WISH TO OFFER A RESPONSE?

A. Ms. Ather continues to argue that her use of the concept of Basic Water Service (BWS) is an appropriate foundation upon which to base an affordability analysis. She argues that BWS is the water usage which is necessary and reasonable to meet basic household needs for drinking, cooking, sanitation, general health service. She does not respond to my critique that PAWC never defines what "basic household needs" are included in her BWS. Nor does she respond to my critique that she offers no basis upon which to judge which water usage "is necessary and reasonable to meet basic household needs."

Instead, Ms. Ather argues that her concept of BWS "is meant to differentiate the type of service PAWC is including in this analysis from seasonal water use, which is discretionary and which *should not be subject to an analysis of affordability*."[2] She refuses to accept the fact that the level of household water consumption is highly dependent on individual household characteristics. Rather than using individual household characteristics, for example, Ms. Ather assumes an average household size of 2.43 persons.[3] She argues that considering factors such as the age of household members, or the actual size of households, "cannot be utilized for any meaningful analysis because they are not measurable or available on a consistent basis, cannot be aggregated across PAWC's service territory, and do not provide a stable or replicable basis for evaluating essential water service."[4]

[2] PAWC St. 9-R, at 4 (emphasis added).

[3] Id., at 6.

[4] Id., at 5 – 6.

In addition, Ms. Ather argues that "If PAWC were to change its affordability analysis from BWS, which measures essential use, to a metric based on average consumption patterns of specific customer subgroups, the analysis would no longer assess affordability at a standardized level of basic water service. It would instead reflect certain behaviors and consumption choices of individual customers that widely vary due to things such as discretionary, inefficient, or outdoor use."[5]

Those arguments are simply wrong. Among PAWC's zip codes, for example, the average household size of owner-occupied units in 2023 ranges from a low of 1.19 persons per household (Zip Code 15047) to a high of 5.35 persons per household (Zip Code 15334).[6] There are five zip codes with average household sizes of fewer than 1.5 persons, while there are eight other zip codes with average household sizes of 3.4 or larger. Overall, within PAWC's zip codes, there are 45 zip codes with an average household size of more than 10% larger than the average, while there are 56 zip codes with an average household size of more than 10% lower than the average. Rather than accounting for those differences, Ms. Ather simply averages them all together and deems them *all* to have affordable bills "on average."

Moreover, Witness Ather would use the lower consumption associated with the smaller households to conclude that those bills are affordable (without considering the lower income associated with smaller households), while arguing that the higher consumption associated with the larger households as being usage which is "discretionary and which

[5] Id., at 11.

[6] American Community Survey (2023 5 year data), at Table B25010.

should not be subject to an analysis of affordability." Having a larger household size simply should not be dismissed, as done by Ms. Ather, as representing "consumption choices of individual customers that widely vary due to things such as discretionary, inefficient, or outdoor use." Among PAWC's zip codes, for example, of the 2.43 average persons per household used by Ms. Ather, she refuses to acknowledge that household water consumption differs by age. Rather than acknowledging that, and using available data (for example) to find that there are 261,885 persons age 12 to 17 in its service territory, compared to 290,194 persons age 75 or older, compared to 225,613 persons age 6 or younger,[7] Ms. Ather simply averages them all together and declare them to all have affordable bills "on average." The higher bills associated with the higher water consumption of teenagers are dismissed as being "discretionary. . .which should not be the subject to an analysis of affordability." Having teenagers in the home rather than young children (or aged adults) simply should not be dismissed, as Ms. Ather does, as reflecting "certain behaviors and consumption choices of individual customers that widely vary due to things such as discretionary, inefficient, or outdoor use."

Q. PLEASE RESPOND TO MS. ATHER'S ARGUMENT THAT THE LEVEL OF WATER CONSUMPTION WHICH IS "NECESSARY AND REASONABLE TO MEET BASIC HOUSEHOLD NEEDS" (HER DEFINITION OF "BASIC WATER SERVICE") CAN BE DERIVED FROM AN EXAMINATION OF SEASONABLE WATER USE.

[7] American Community Survey, (2023, 5-year data), Table B

A. Ms. Ather argues that PAWC's use of Basic Water Service is "meant to differentiate the type of service PAWC is including in this analysis from seasonal water use, which is discretionary and which should not be subject to an analysis of affordability."[8] She argues that "[t]he 40 gallon threshold is specifically calibrated to non-seasonal consumption patterns for PAWC's customers and is consistent with average non-seasonal use per customer for PAWC's residential population. . ."[9] Her testimony, however, is not supported by the data which PAWC provided. As I presented in Figure 7 of my Direct Testimony (replicated below), which Ms. Ather did not dispute:

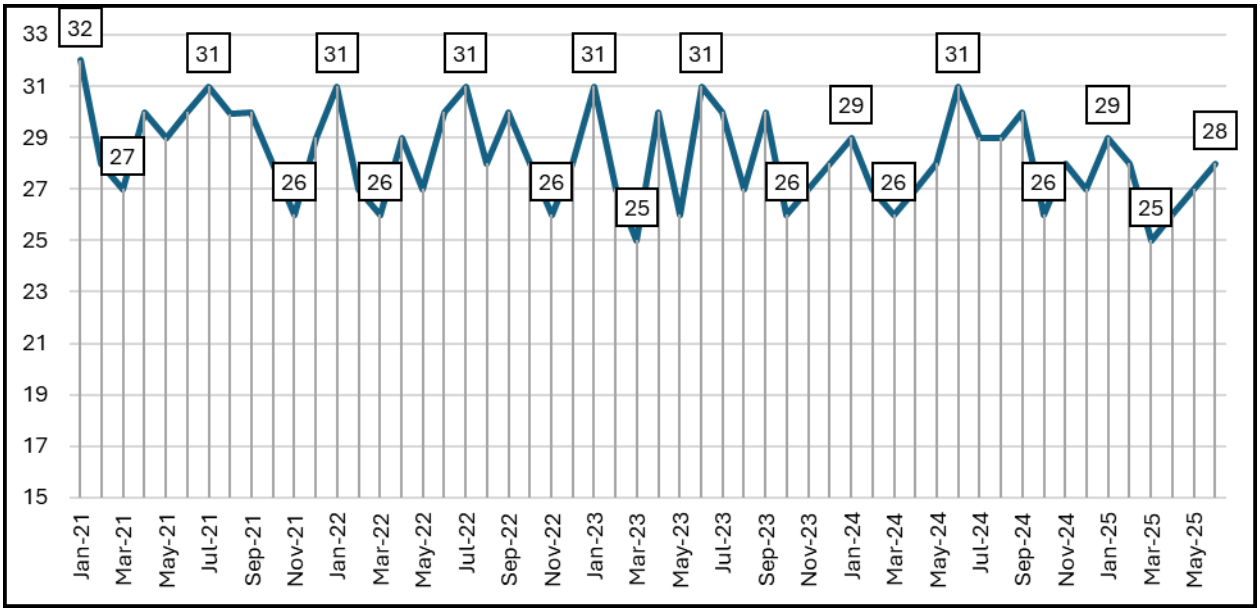
> While there is monthly variation for both low-income customers and residential customers generally, that variation does not evidence the seasonal variation which PAWC identifies. [PAWC data] shows that the maximum median monthly residential usage during the study time period was 3,200 or 3,100 gallons per month. That maximum usage occurred in the months of January 2021 (3,200 gallons per month), July 2021 (3,100 gallons per month), January 2022 (3,100 gallons per month), July 2022 (3,100 gallons per month), January 2023 (3,100 gallons per month), and June 2023 (3,100 gallons per month). In contrast, the minimum median monthly residential usage reported by PAWC was either 2,500, 2,600, or 2,700 gallons per month. The Figure shows that those minimums occurred in March 2021 (2,700), November 2021 (2,600), March 2022 (2,600), November 2022 (2,600), March 2023 (2,500), October 2023 (2,600), March 2024 (2,600), October 2024 (2,600 gallons per month), and March 2025 (2,500 gallons per month).

[8] PAWC St. 9-R, at 4.

[9] Id., at 5.

Median Residential Usage by Month (hundred gallons)

(Jan 2021 – June 2025) (OCA-04-023)



I find that Ms. Ather's justification for her BWS consumption is arbitrary and not supported by the data.

Q. PLEASE RESPOND TO MS. ATHER'S JUSTIFICATION OF THE USE OF MEDIAN HOUSEHOLD INCOME (MHI) AS THE FOUNDATION FOR HER AFFORDABILITY ANALYSIS?

A. PAWC's use of Median Household Income (MHI) as the foundation of its affordability analysis was criticized by CAUSE-PA witness Harry Geller as being inappropriate because its "masks the extreme levels of unaffordability experienced by the lowest income households."[10] While Ms. Ather's response purports to respond only to that statement by Mr. Geller, I respond to it as well given the applicability of her response to

[10] Id., at 7.

my Direct Testimony as well. My Direct Testimony, to which Ms. Ather offered no response, directly supports Mr. Geller's conclusion. As I found:

> PAWC bills at the rates proposed in this proceeding are unaffordable for customers with income between $50,000 and $60,000 (burden of 2.3% at the $55,000 mid-point of that income range). Even PAWC bills at existing rates, however, are at the limits of affordability (1.9%) at incomes between $50,000 and $60,000. The bill increase at the rates proposed in this proceeding push PAWC burdens above the 2% demarcation of affordability.
>
> . . .
>
> It is not simply the income below which bills become unaffordable that is significant, however. When I examine the lower income levels, the depth of unaffordability (*i.e.*, the extent to which bills exceed an affordable burden) becomes particularly substantial. PAWC bills, for example, impose twice the affordable burden (3.9% at proposed rates) even at an annual income of $30,000 to $35,000, while bills range from more than 3.5 times (7.3% at income of $15,000 to $20,000 at proposed rates) to nearly thirteen times (25.5%) the affordable burden when income falls to less than $10,000.[11]

As I noted in my Direct Testimony, in the zip codes identified by PAWC as comprising its service territory, 38.2% of all households have income at or below $60,000.

Ms. Ather's only response to these observations is to make the assertion that "MHI. . .encompasses the entire residential customer base, not a subset."[12] MHI does not "encompass the entire residential customer base. . ." The "median" is a single point. It is the point at which half of the population is greater than it is, with the other half of the population being less.

[11] OCA St. 4, at Table 2, and accompanying text (pages 21 – 23).

[12] PAWC St. 9=R, at 7.

The median is certainly not considered to be "representative" of the entire population. The inequality of income is measured by what is known as the "Gini Index."[13] A Gini Index of greater than 0.40 is considered to be an indicator of a substantial level of income inequality.[14] A high Gini Index is generally driven by a concentration of wealth in the upper incomes. More than two-thirds of the zip codes comprising the PAWC service territory (215 of 321) have a Gini Index of 0.4 of greater.[15] An additional 74 of the 321 PAWC zip codes reporting data have a Gini Index of between 0.35 and 0.40. Within the PAWC service territory, in other words, use of the Median Household Income is inappropriate as being representative of the total population given the level of income is driven by a concentration of wealth in upper incomes. Even though the "median" is the "middle," the middle is artificially high given the inequality in the distribution of income.

Q. DO YOU HAVE ANY FINAL RESPONSE TO THE REBUTTAL TESTIMONY OF PAWC WITNESS ATHER?

A. Yes. PAWC witness Ather asserts that the affordability of PAWC rates to low-income customers should not be of concern because the Company's BDP gives "virtually every residential customer the opportunity for BWS for both water and wastewater service at an

---

[13] "The Gini Index is a summary measure of income inequality. The Gini coefficient incorporates the detailed shares data into a single statistic, which summarizes the dispersion of income across the entire income distribution. The Gini coefficient ranges from 0, indicating perfect equality (where everyone receives an equal share), to 1, perfect inequality (where only one recipient or group of recipients receives all the income). The Gini is based on the difference between the Lorenz curve (the observed cumulative income distribution) and the notion of a perfectly equal income distribution." https://www.census.gov/topics/income-poverty/income-inequality/about/metrics/gini-index.html

[14] https://blogs.worldbank.org/en/opendata/inside-the-world-bank-s-new-inequality-indicator--the-number-of-#:~:text=The%20new%20indicator,Saharan%20Africa%20and%20Latin%20America.

[15] American Community Survey (2025, 5-year data). Table B19083.

affordable level."[16] If a customer does not participate in the BDP, Ms. Ather argues, it is only because they choose not to participate.[17] This argument is in direct conflict with the BDP results achieved by PAWC. According to PAWC Rebuttal Witness Prine, as of January 31, 2026, PAWC had 24,698 BDP participants.[18] In contrast, PAWC witness Ather estimates that the Company had 152,558 customers with income at or below 200% of Federal Poverty Level. PAWC, in other words, has enrolled only 16% (roughly one-of-six) of its low-income customers in its BDP. Given this poor participation, it is misleading, at best, for Ms. Ather to argue that BDP provides an opportunity for "virtually every residential customer" to obtain affordable service through the program.

Q. WHAT DO YOU CONCLUDE?

A. I conclude that Ms. Ather failed to rebut my finding that PAWC has significant bill affordability problems facing its low-income customers. Not only should this unaffordability be considered in assessing issues such as an appropriate return on equity and rate design, but also that the specific remedies which I recommended in my Direct Testimony should be adopted to address the issue both from the perspective of delivering

[16] PAWC St. 9-R, at 8.

[17] Id., at 9 ("ultimately, the enrollment levels are dependent upon individual customer enrollment decisions").

[18] PAWC St. 15-R, at 26.

reasonably adequate service to the low-income customers and from the perspective of delivering least-cost service to all customers of the utility.

Part 2. Response to PAWC Rebuttal Witness Max McClelland.

Q. PLEASE EXPLAIN THE PURPOSE OF THIS SECTION OF YOUR TESTIMONY.

A. In this section of my testimony, I respond to the rebuttal testimony of PAWC witness Max McClelland. Mr. McClelland responds to my Direct Testimony regarding the Company's proposed "deduct adjustment" program. He concludes that the "deduct adjustment" proposal should be adopted as presented by PAWC.

Q. WHAT IS THE FIRST ASPECT OF MR. MCCLELLAND'S REBUTTAL DO YOU WISH TO RESPOND TO?

A. Mr. McClelland lists the objections that I raise to PAWC's proposed deduct adjustment program. He notes that the empirical inquiry of PAWC residential usage presented in my Direct Testimony documented that, contrary to what is asserted (but not supported by empirical evidence) by PAWC, there is, in fact, not a substantial variation in monthly consumption between winter and non-winter months. Moreover, he notes that I find that the Company's use of the months of January-February-March represent an inappropriate basis upon which to structure the deduct adjustment program.

While Mr. McClelland lists my objections to the deduct adjustment proposal, he offers no response to, let alone any rebuttal to, the factual evidence presented in my Direct

Testimony. He continues to assert that the Company's proposal has a "cost basis."[19] He speculates that customers use "early fall and spring" as "ideal times for planting or other lawn maintenance," but offers no evidence of the extent to which, if at all, this occurs.[20]

Q. IS THERE A SECOND ASPECT OF THE REBUTTAL TESTIMONY OF MR. MCCLELLAND TO WHICH YOU WISH TO RESPOND?

A. Mr. McClelland appears to implicitly acknowledge that the Company's proposed deduct adjustment will result in transferring revenue responsibility from non-low-income customers to low-income customers. He does not dispute, and certainly offers no evidence, to counter the documentation provided in my Direct Testimony that low-income customers are less likely to be homeowners with outdoor water usage such as lawn watering, pool filling, and car washing. Nor does he dispute the fact that, as renters, low-income customers will not engage in the outdoor uses he newly speculates about ("planting or other lawn maintenance") in his rebuttal testimony.

Mr. McClelland asserts that "there is potentially a minimal impact on lower income customers."[21] He offers no quantification, let alone any analysis of evidence, that the impact on low-income customers would be "minimal." Indeed, determining the level of that impact prior to approving the Company's proposal is one of the recommendations I made in my Direct Testimony.

[19] PAWC St. 10-R, at 31 – 33.

[20] Id., at 33.

[21] Id., at 34.

Q. HOW DO YOU RESPOND TO MR. MCCLELLAND'S COMMENTS REGARDING THE INTERPLAY BETWEEN PAWC'S BILL DISCOUNT PROGRAM AND THE DEDUCT ADJUSTMENT PROPOSAL?

A. Mr. McClelland asserts that opposing the "deduct adjustment" proposal is not "an effective or targeted means of addressing affordability concerns."[22] Rather than addressing the inequities and structure shortcomings of the "deduct adjustment" proposal, Mr. McClelland asserts that adverse impacts on low-income customers are "dampened through discounts offered through the BDP."[23] He does not acknowledge that the BDP reaches only 16% of the eligible population. The BDP, in other words, misses nearly 85% of the low-income population that would be unfairly adversely affected by the "deduct adjustment" proposal.

Q. DID MR. MCCLELLAND ADDRESS YOUR SUGGESTED ALTERNATIVE PROPOSAL TO THE COMPANY'S DEDUCT ADJUSTMENT RECOMMENDATION?

A. No. I suggested in my Direct Testimony that an alternative exists that would accomplish the objective sought by PAWC (i.e., to avoid charging customers wastewater rates on outdoor water consumption that does not go through the wastewater system), but avoids the problems associated with the Company's proposal. Allowing customers to choose to install separate meters for outdoor water consumption would accomplish the Company's objective, while avoiding each of the problems identified by various non-PAWC

[22] Id., at 33.

[23] Id., at 34.

witnesses with the Company's proposal. Attempting to address what may be a legitimate concern through a rate design proposal, however, is using a blunt, structurally unsound, empirically unsupported mechanism that could easily be replaced with a proposal for an equitable metering proposal for outdoor water consumption.

Q. WHAT DO YOU CONCLUDE?

A. Based upon the discussion above, in addition to the discussion presented in my Direct Testimony, I conclude that the deduct adjustment proposal is premature and unsupported at best. Rather than approving the proposal in this proceeding, the recommendations I present in my Direct Testimony with respect to addressing concerns about charging wastewater rates on water that does not utilize the wastewater system should be adopted. That recommendation consisted of two parts:

- Should PAWC wish to re-file its proposal in a future base rate proceeding, it should do so with an appropriate factual foundation. In filing a new proposal, PAWC should be required to estimate the impacts on remaining wastewater customers arising from the loss of revenue from customers who receive lower bills attributable to the re-filed proposal. This estimated impact should devote particular attention to the impact of the proposal on low-income customers who are less likely to have outdoor water use and, as a result, would be more likely to bear the brunt of the reallocated wastewater costs.

- That, notwithstanding the above recommendations, an alternative mechanism through which to address the legitimate concerns of customers about not paying for wastewater service on water consumption that does not flow through the wastewater system should be considered. As an alternative to addressing this issue through a rate structure proposal, PAWC should be directed to work with OCA to assess the cost, feasibility, and practicality of offering customers the opportunity to request the installation of separate meters limited to measuring the customer's outdoor water consumption.

Part 3. Response to PAWC Rebuttal Witness Mathew Prine.

Q. PLEASE EXPLAIN THE PURPOSE OF THIS SECTION OF YOUR TESTIMONY.

A. In this section of my testimony, I respond to the rebuttal testimony of PAWC witness Mathew Prine. Mr. Prine testifies with respect to the enrollment of PAWC low-income customers into the Company's BDP and AFP programs. He concludes that no changes are needed.

Q. WHAT IS THE FIRST ASPECT OF MR. PRINE'S REBUTTAL TESTIMONY WHICH YOU WISH TO ADDRESS?

A. Mr. Prine opposes my recommendation that the Company broaden its identification of low-income customers to include the use of self-attested information. Mr. Prine acknowledges that Dollar Energy Fund, the third party administrator of PAWC's low-income program, "currently requires a customer to provide proof of income documentation to confirm that a customer has a low-income status and is eligible for the Company's assistance programs."[24] Mr. Prine asserts that "PAWC does not accept self-attestation to the receipt of public assistance as a way to show that a customer is low-income because such a practice is contrary to the Commission's directive to review a customer's income documentation."[25]

There are a number of problems with Mr. Prine's rebuttal testimony. First, my recommendation did not relate to, propose, or recommend, that PAWC use self-attested

[24] PAWC St. 15-R, at 21.

[25] Id.

information as the basis for enrolling customers in the Company's low-income BDP or AFP. Accordingly, the Commission's prior directives regarding the income documentation needed for such program enrollment are not relevant.

Second, the identification of low-income customers is important for purposes other than the actual enrollment of such customers in PAWC's BDP and AFP. Knowing what customers are reasonably found to be low-income, for example, would help to address outreach for BDP and AFP. Given PAWC's poor BDP enrollment performance (enrolling only 16% of its estimated low-income population), improving outreach would be important. Moreover, quite apart from enrolling customers in the BDP and/or AFP, knowing what customers are reasonably likely to be low-income would help PAWC in identifying customers who could be referred to hardship funds, who need more extended payment plans, or who might qualify for late fee waivers. Finally, identifying customers who are reasonably likely to be low-income would assist PAWC in data gathering and the review of the prudence, as well as the effectiveness and efficiency of its credit and collection activities.[26]

Third, there are easily accessible means for a customer to provide a reasonable basis for PAWC to conclude that a customer is "low-income" without the customer providing documentation of actual income to the utility, and certainly without requiring a customer to provide PAWC with the names and ages of children. Consider, for example, that a customer could establish that they are receiving means-tested public assistance by

[26] See generally, OCA St. 4, at 36 – 48.

providing either a printout or a screenshot through the COMPASS app.[27] In the alternative, customers could provide a printout of their welfare verification from the county assistance office. Not only is it a more difficult task to verify actual income task for a variety of reasons (uncooperative bosses while getting paid under the table, inconsistent pay statements, etc.), but customers may have legitimate concerns about providing the names and ages of the children in their household. Providing actual income, as well as the names and ages of children, to PAWC is certainly not required to create a reasonable expectation by PAWC of a customer's low-income status.

Q. WHAT IS THE SECOND ASPECT OF MR. PRINE'S REBUTTAL TESTIMONY TO WHICH YOU WISH TO RESPOND?

A. Mr. Prine asserts that there is no need for PAWC to gain the "informed consent" of low-income customers prior to such customers entering into a deferred payment agreement (DPA). According to Mr. Prine, "the Company has already developed and implemented "call scripting and checklists for its [CCAs] to assist in screening customers for eligibility and refer low-income customers to available assistance programs, including BDP and the Hardship Fund, before placing customers on a payment arrangement."[28]

Mr. Prine misses the point of this recommendation. The Commission has recently addressed the need for utilities to obtain the "informed consent" of low-income customers prior to those customers making decisions that would affect the level of their bills. The

[27] COMPASS is an online tool for Pennsylvanians to apply for many health and human service programs and manage benefit information. See, compass.dhs.pa.gov/home/#/

[28] PAWC St. 15-R, at 22 (citing Confidential PAWC Exh. MWP-1R) (while this citation includes a citation to a confidential exhibit, nothing in this testimony presents confidential material).

Commission has explicitly held that as part of obtaining that "informed consent," a utility must explain to the customer how the customer's decision would impact the customer's monthly bill.[29]

It is difficult to understand PAWC's opposition to this requirement. There is no question that from January 2023 through November 2025, as I noted in my Direct Testimony, there is "a legitimate question why PAWC would insist on entering into payment arrangements in nearly 19,000 cases over less than a three year period when those arrangements are likely to default." Throughout its Rebuttal Testimony, PAWC insists that the 85% of low-income customers who do not participate in the BDP and/or AFP do not participate because they *choose* not to do so. Obtaining the informed consent of a low-income customer stating that they would prefer to increase their monthly payment obligation by entering into a DPA (which would mean they would pay an arrearage installment plus their current bill) rather than obtaining a discounted bill, along with arrearage forgiveness, before making that choice to enter into a DPA, is hardly unreasonable.

Q. DOES MR. PRINE HAVE ANY INCONSISTENCIES IN HIS REBUTTAL TESTIMONY?

A. Yes. Mr. Prine asserts that "PAWC makes personal contact with any confirmed low-income customer facing termination of service for nonpayment and provides those customers with the opportunity to enroll in the BDP and the [Arrearage Management

[29] OCA St. 4, at 57 – 58.

Plan] as an alternative to disconnection."[30] Prior to the testimony just quoted, however, Mr. Prine had stated:

> Dollar Energy Fund ("DEF"), the third-party administrator of PAWC's H2O Program currently requires a customer to provide proof of income documentation to confirm that a customer has a low-income status and is eligible for the Company's customer assistance programs. Documentation could include proof of receipt of certain types of public assistance (e.g., LIHEAP, TANF). PAWC does not accept self-attestation to the receipt of public assistance as a way to show that a customer is low income because such a practice is contrary to the Commission's directive to review a customer's income documentation.[31]

The circularity in Mr. Prine's testimony is disturbing. PAWC makes personal contact with "any confirmed low-income customer facing termination of service for nonpayment" to provide those customers with "the opportunity to enroll in the BDP and the AMP," but the Company only views a customer as a "confirmed low-income customer" if that customer has previously provided "proof of income documentation to confirm that a customer has a low-income status and is eligible for the Company's customer assistance programs."

PAWC needs to: (1) identify customers who can provide information, including self-attestation, leading to a reasonable belief that they are low-income; (2) when such identified low-income customers develop payment difficulties, provide those customers with Plain Language information about the availability of PAWC's low-income programs (such as the BDP and AFP); (3) enter into DPAs which *increase* the customer's bill payment obligation only with the customer's informed consent that they would prefer

[30] PAWC St. 15-R, at 22.

[31] Id., at 21.

such a payment plan rather than obtaining a discount plus forgiveness of their arrears; and (4) enroll those customers in the BDP/AFP upon completion of the enrollment process.

Q. DOES MR. PRINE OPPOSE ANY OTHER EFFORT TO ACHIEVE AN EARLY IDENTIFICATION OF PAWC'S LOW-INCOME CUSTOMERS?

A. Yes. Mr. Prine opposes screening new applicants for service, as well as customers at the time of an address change, to determine whether those applicants/customers can provide information that would reasonably lead PAWC to conclude that they are low-income. He asserts that the Company already "engages in significant outreach regarding its customer assistance programs."[32] He asserts that:

> PAWC already trains its CCAs to advise customers having trouble paying their bills about the BDP and the Company's other assistance programs and to facilitate enrollment of eligible customers in those programs. CCAs ask for a customer's income information and household size if the customer expresses trouble paying their bill and wishes to set up a payment plan.[33]

Again, Mr. Prine's rebuttal testimony misses the point. In each instance he cites, PAWC requires (or allows) a customer to get into payment difficulties before offering the outreach. Mr. Prine states that: (1) PAWC makes personal contact when a customer is facing disconnection; (2) "advises customers having trouble paying their bills" about the BDP; and (3) asks for income information and household size "if the customer expresses trouble paying their bill and wishes to set up a payment plan." In each instance, PAWC is reacting to payment difficulties which have already developed rather than seeking to

[32] Id., at 23.

[33] Id.

proactively identify low-income customers who are likely to have payment difficulties and then seeking to prevent those difficulties.

The Commission very recently addressed this exact issue. In the December 2025 Decision and Order in the Columbia Gas rate case,[34] the Commission noted that as of December 2024, only 20,988 Columbia customers were enrolled in CAP, accounting for only 23% of the Company's estimated low income customers. Based on that observation, the Commission concluded that "Such statistics highlight that additional CAP screening is appropriate."[35] Based on that conclusion, the Commission held:

> Accordingly, we agree with a number of the recommendations proposed by the OCA and CAUSE-PA for additional CAP screening. As such, we will require Columbia to develop and implement a process to screen: (1) New and moving customers for income level at the time their service is established to determine whether the customer should be: classified as a confirmed low income customer; and referred to the CAP application process and any other universal service programs; and (2) Existing customers for income level on any non-emergency calls, if that customer has not been screened within the past six months and has not previously opted out of providing such information, to determine whether the customer should be: classified as a confirmed low income customer; and referred to the CAP application process and any other universal service programs.[36]

PAWC has an even lower enrollment rate of its estimated low-income customers. There is no reason to believe the Commission could, and certainly no reason the Commission

[34] Pennsylvania PUC v. Columbia Gas, Docket No. R-2025-3053499 (December 4, 2025).

[35] Id., at 350.

[36] Id., at 351 (internal notes omitted).

should, reach a different conclusion with respect to PAWC than it did with Columbia Gas.[37]

Q. DO YOU HAVE AN ADDITIONAL ASPECT OF MR. PRINE'S TESTIMONY TO WHICH YOU WISH TO RESPOND?

A. Mr. Prine asserts that there is no need for PAWC to clarify its outreach and intake regarding the right of low-income enrollees in the Company's BDP to simultaneously be enrolled in the Company's AFP. He asserts that "The Company's outreach materials provide customers sufficient background on the programs and the next step they can take to apply. When a customer applies for any of the Company's customer assistance programs through DEF, DEF reviews the customer's enrollment eligibility for *all* of PAWC's programs."[38] This perspective is also reflected in the testimony of PAWC Witness Chard, who asserts that "there are no barriers to entry into the AMP. Customers who enroll in BDP are *automatically* enrolled in AMP if they have an arrears balance of $150 that is at least 60 days old."[39]

This rebuttal testimony is simply not reflected in the data which PAWC provided in response to discovery. As I documented in my Direct Testimony, and neither Mr. Prine nor Ms. Chard responded to, let alone rebutted, looking at BDP/AFP data for October

[37] Mr. Prine objects that "customers often consider their income information to be confidential and may not want to share this information when discussing issues other than billing." PAWC St. 15-R, at 23. If this should be the case, the customer could decline the opportunity to provide information that would reasonably place them in a low-income status. Simply because PAWC might screen for information does not mean the customer is required to provide it.

[38] PAWC St. 15-R, at 24 (emphasis added).

[39] PAWC St. 2-R, at 9 (emphasis added).

2024 through November 2025, PAWC's data shows that "for whatever reason, PAWC appears to be enrolling customers into its BDP who have pre-existing arrears without at the same time enrolling those customers in the Company's AFP." The data shows that "the total number of newly-enrolled BDP participants with a pre-existing arrears exceeds the number of AFP participants by a substantial extent. If the $0 - $100 enrollees are excluded, the number of newly-enrolled BDP participants with pre-existing arrears exceeds the number of AFP participants by 50% (6,304 vs. 3,970)."[40]

Despite this automatic enrollment process, PAWC rebuttal witness Chard argues that the fact that only 3,739 of the 19,966 customers enrolled in the BDP were also enrolled in the AMP as of November 2025, "this level does not indicate that the AMP is unsuccessful."[41]

As the rebuttal testimony of Witness Prine and Witness Chard acknowledge, the policy here is not at issue. The way the BDP/AFP is intended to operate is for BDP enrollees with the requisite arrears to be automatically enrolled in the AFP. However, that does not appear to be happening. The *only* question at issue, therefore, is what appropriate remedy should be fashioned. As I recommended in my Direct Testimony, PAWC should be directed to "identify why customers who are newly enrolling into the BDP are not also being enrolled into the AFP simultaneously." Moreover, as recommended in the Direct Testimony of Harry Geller, PAWC should also be directed, within 90 days of when rates go into effect in this proceeding, to identify BDP participants with qualifying arrears that are not enrolled in the AMP and to enroll those participants in the AMP.

[40] OCA St. 4, at Table 19, and accompany text (page 79).

[41] PAWC St. 2-R, at 9.

Q. DO YOU HAVE ANY FINAL ASPECT OF MR. PRINE'S REBUTTAL TESTIMONY TO WHICH YOU WISH TO RESPOND?

A. Yes. Mr. Prine objects to my Direct Testimony as over-stating the cold weather shutoff protections provided to water customers. According to Mr. Prine, "the winter moratorium on terminations set forth in that [PUC] regulation does not apply to customers whose water service is non-heat related."[42] He argues that "the Commission's regulations permit PAWC to issue disconnect notices to non-heat related customers, regardless of income, during the winter moratorium."[43]

Even if accurate, however, that "non-heat-related" water customers may have service disconnected during the winter moratorium "regardless of income," Mr. Prine's testimony does not address the findings of my Direct Testimony. The undisputed facts are:

- Pennsylvania law bars the disconnection of heat-related water service during the cold weather months without explicit PUC approval;
- PUC regulations bar PAWC from issuing a threat to terminate service when it has no present intent to terminate service *or when actual termination is prohibited under this chapter*.
- Notwithstanding the PUC ban, PAWC issues tens of thousands of shutoff notices during the winter moratorium period;
- PAWC's shutoff notices issued during the winter moratorium period threaten customers with a disconnection of service for nonpayment during that moratorium period;

[42] PAWC St. 15-R, at 27.

[43] Id.

- No mention is made in the shutoff of the availability or protections offered by the winter shutoff moratorium; and
- No distinction in shutoff notices is made between heat-related and non-heat-related accounts.

My conclusion remains that notwithstanding the PUC's prohibition on cold weather terminations, PAWC continues to issue disconnection notices warning of an impending nonpayment disconnection during cold weather months. This represents a serious management failure.

Part 4. Response to PAWC Rebuttal Witness Christina Chard.

Q. PLEASE EXPLAIN THE PURPOSE OF THIS SECTION OF YOUR TESTIMONY.

A. In this section of my testimony, I respond to the Rebuttal Testimony of PAWC witness Christina Chard. In her rebuttal testimony, Ms. Chard addresses the operation of PAWC's Arrearage Forgiveness Program (AFP).[44] She concludes that the program is operating as intended and that no modifications are needed.

Q. WHAT IS THE FIRST ASPECT OF MS. CHARD'S REBUTTAL TESTIMONY TO WHICH YOU WISH TO RESPOND?

A. PAWC witness Chard disagrees with the assertion made by me and CAUSE-PA witness Harry Geller that the Company's BDP and AFP are "under-subscribed." She asserts that as of January 31, 2026, the BDP had an enrollment of 24,698, which is a "positive

[44] PAWC uses two different terms to refer to providing arrearage forgiveness. At times, the Company's program is known as the Arrearage Forgiveness Program (AFP). At other times, it is referenced as the Arrearage Management Program (AMP). Throughout my testimony, the terms AFP and AMP are intended to be used interchangeable. The terms are synonymous.

enrollment trend."[45] Even if PAWC is experiencing a "positive enrollment trend," there can be little question but that the BDP is under-enrolled. As I note above, PAWC witness Ather estimates that the Company had 152,558 customers with income at or below 200% of Federal Poverty Level. PAWC, in other words, has enrolled only 16% (roughly one-of-six) of its low-income customers in its BDP.

Moreover, Ms. Chard dismisses the under-enrollment of BDP participants in the arrearage forgiveness program. Despite the fact that PAWC has 24,698 BDP participants, and the fact that 83% of new BDP enrollees had an arrearage at the time they entered the BDP,[46] Ms. Chard dismisses the fact that there were only 3,739 customers who were enrolled in the BDP that were *also* enrolled in the AMP as of November 2025. She states merely that "this level does not indicate that the AMP is unsuccessful."[47] She continues to assert that "Company enrolls all eligible BDP customers in the AMP at the time of their BDP enrollment,"[48] notwithstanding the fact that the numbers clearly indicate to the contrary.

Witness Chard asserts that the "Company has robust processes in place to inform customers about the BDP. . ."[49] When the Company provided its actual outreach materials to OCA, however, a review of those outreach materials found them to be

[45] PAWC St. 2-R, at 13.

[46] OCA St. 4, at 101.

[47] PAWC St. 2-R, at 9.

[48] Id., at 10.

[49] Id., at 13.

lacking. To assert that its outreach is "robust" and to actually provide meaningful outreach are two different questions. Ms. Chard does not even attempt to respond to the problems I identified with PAWC's BDP and AFP outreach. The specific proposals on improving outreach for BDP and AFP, all of which Ms. Chard opposes, are addressed elsewhere in this Surrebuttal Testimony.

Q. PLEASE RESPOND TO MS. CHARD'S REBUTTAL TESTIMONY REGARDING PROPOSED MODIFICATIONS TO PAWC'S ARREARAGE FORGIVENESS PROGRAM?

A. PAWC witness Chard opposes every single proposal on how to improve the operation and performance of the Company's Arrearage Forgiveness Program. According to Ms. Chard's rebuttal testimony, the AFP is performing perfectly adequately and is operating as intended.[50] She completely ignores, and does not even attempt to respond to, the factual evidence demonstrating to the contrary.

Ms. Chard opposes eliminating the requirement that customers make *timely* payments in order to earn an arrearage forgiveness credit.[51] According to her rebuttal testimony, the "Company's AMP is intentionally structured to encourage timely payment behavior. Providing credits to customers who do not submit timely payments would undermine that aspect of the program."[52] In making this assertion, provided without any factual basis or empirical support, Ms. Chard ignores the facts which show that the Company's program

[50] Id., at 7.

[51] Id.

[52] Id.

is not only failing to achieve its objective, but is also operating in a punitive fashion to its AFP participants.

The data which PAWC, itself, files with the Commission regarding its AFP demonstrates that the program is not successful in its objective to "encourage timely payment behavior." Ms. Chard did not respond to, let alone rebut, the PAWC data which I cited in my Direct Testimony, which documented that "[d]espite the Annual [AFP] Report covering a 12-month (annual) period, the average number of months in which participants earned forgiveness was only 0.268."[53]

Not only is the PAWC "timeliness" requirement failing the Company's own professed objective, it is being punitive as well. The only impact of the Company's timeliness requirement is to deny arrearage forgiveness to program customers who have made payments. Ms. Chard did not dispute the facts, reported by the Company itself, that:

> the Company receives far more payments from low-income customers than the payments which are "timely" pursuant to Company definition of "timely." The [data] shows that for the 14 months for which data was provided, the total number of payments received was nearly two times higher than the number of timely payments provided (189%). In seven of the 14 months, the total number of payments was more than 200% of the number of "timely" payments received by PAWC.
>
> Moreover, the [data] shows that payments that were made, but not made in a "timely" fashion, are not necessarily delayed for substantial periods of time. The data shows that anywhere from 20% to more than 30% of the *total* payments made by AMP customers were made after the due date *but before the next billing date*. Under the Company's existing arrearage forgiveness policy, those AMP customers would not qualify to receive an AFP credit.[54]

[53] OCA St. 4, at 66 – 67.

[54] Id., at 68 – 69.

The PAWC arrearage forgiveness policy is not supporting its objective. Instead, it is merely being punitive. As the Company's own data shows, "for the 14 months for which data is provided, despite AFP customers paying nearly half of their bills (48.3%), they received less than one quarter (24%) of the AFP credits that were potentially available."[55]

Q. DOES MS. CHARD OPPOSE ANY OTHER MODIFICATION TO THE ARREARAGE FORGIVENESS PROGRAM?

A. Yes. Ms. Chard opposes increasing the arrearage forgiveness credit. She asserts that "the $25 credit amount is a reasonable monthly credit to assist customers in reducing their arrearages." Through the $25 credit, Ms. Chard asserts, an AFP participant "is able to make meaningful progress towards forgiveness with each timely monthly payment."[56] In making that assertion, Ms. Chard merely reiterates the Company's "position. She does not dispute the factual evidence demonstrating to the contrary. Instead:

> The Annual Report states that the average arrearage of AMP participants at the time they enter the program was $1,234.90. Despite this level of pre-existing arrears brought into the program, the average amount of participant arrearages forgiven during the year was only $24.93. . .While the total dollar amount of arrearages held by AMP participants was nearly $4.2 million ($4,174,629.84), the total incremental Program costs incurred over the twelve-month period was only $84,333.[57]

[55] Id., at 69.

[56] PAWC St. 2-R, at 7.

[57] OCA St. 4, at 66 – 67.

According to the Company's own data, which Ms. Chard did not dispute, customers are not being provided an opportunity "to make meaningful progress" toward the forgiveness of their pre-existing arrears.

Q. DO YOU HAVE A RESPONSE TO MS. CHARD'S COMMENT ABOUT THE RELATIONSHIP OF PAWC'S HARDSHIP GRANTS AND ARREARAGE FORGIVENESS?

A. Yes. Ms. Chard asserts a non-sequitur in support of her position that the Company is providing adequate arrearage forgiveness. She states that:

> Although an average forgiveness period of three to four years may be longer compared to certain other Pennsylvania utilities, other PAWC program rules are more beneficial to AMP customers. PAWC's Hardship Fund rules permit an AMP customer to apply a hardship grant of up to $500 to their bills if they fall behind on their AMP payments, which is equivalent to an additional $41.67 per month."[58]

This statement is a non-sequitur because, by definition, hardship grants are not used to reduce pre-existing arrears, nor will the receipt of a hardship grant qualify the customer for any arrearage forgiveness credits. Arrearage forgiveness is provided only for a "timely" payment; hardship grants are provided only for past-due bills. If a customer qualifies for a hardship grant, in other words, they, by definition, have already missed their opportunity to earn the arrearage forgiveness credit corresponding to that untimely payment.

Q. DID MS. CHARD OPPOSE ANY FINAL MODIFICATION TO THE ARREARAGE FORGIVENESS PROGRAM?

[58] PAWC St. 2-R, at 8.

A. Yes. Ms. Chard opposed Mr. Geller's recommendation that PAWC should discontinue its required $5 monthly co-pay to participate in the AFP. She asserts that the co-payment requirement was adopted as part of the settlement of PAWC's prior AMP proceeding and that OCA and CAUSE-PA were both parties to that settlement. She further asserts that "PAWC has IT system constraints that require the AMP to be structured like a payment arrangements, which includes a co-pay structure."[59] What Ms. Chard failed to mention was that the Settlement which she cites further *explicitly* provided that:

- This Settlement proposed by the Joint Petitioners to settle the instant case is made without any admission against, or prejudice to, any position which any Joint Petitioner might adopt during subsequent litigation. . .; *and*
- This Settlement and its terms and conditions may not be cited as precedent in any future proceedings, except to the extent required to implement this Settlement.; *and*
- This Settlement is being presented only in the context of these proceedings in an effort to resolve the proceedings in a manner which is fair and reasonable. The Settlement is the product of compromise between and among the Joint Petitioners. This Settlement is presented without prejudice to any position that any of the Joint Petitioners may have advanced and without prejudice to the position any of the Joint Petitioners may advance in the future on the merits of the issues in future proceedings except to the extent necessary to effectuate the terms and conditions of this Settlement.

Q. WHAT IS THE NEXT ASPECT OF MS. CHARD'S REBUTTAL TESTIMONY TO WHICH YOU WISH TO RESPOND?

A. Ms. Chard reiterates the Company's proposal to establish Renter Assistance Pilot Program (RAPP). According to Ms. Chard, "The purpose of the RAPP is to assist low-

[59] Id., at 9.

income residents of master-metered rental buildings with paying their utility bills."[60] The program, however, is not structured to accomplish this purpose. Instead, the program is structured to provide assistance to renters who *do not have utility bills*. The program is, in other words, designed to use ratepayer money to provide financial assistance to renters who receive water service paid by their landlords. It is not known the extent to which, if at all, those water bills are included as a part of rent. Unlike utility rates, rents are not necessarily cost-based. Rather, they are market-based. When ratepayer dollars are provided to subsidize rents, in other words, those rent subsidies have no impact on whether PAWC bills are paid. The person receiving the rent subsidy (i.e., the renter) and the person paying the PAWC bill (i.e., the landlord) are different people.

Ms. Chard does not seek to reconcile her Rebuttal Testimony with her Direct Testimony. In her Direct Testimony, Ms. Chard explicitly acknowledged that the RAPP is designed to provide assistance to help "low-income residents with paying their utility bills when they are *not responsible for paying for their utility service directly to their utilities*."[61]

As I explained in my Direct Testimony, I have had occasion to research renter-assistance programs somewhat similar to the RAPP proposed by PAWC. Each of these assistance programs differs from Pennsylvania policy in that they are not designed as an alternative collection policy. While a RAPP may be justifiable for PAWC, it has not been justified by the record in this proceeding. The RAPP proposal should be disapproved in this proceeding and, to the extent that PAWC wishes to resubmit such a proposal in a future

[60] Id., at 11.

[61] OCA St. 4, at 82 (emphasis added).

case, it should do so only after taking the steps recommended in my Direct Testimony.[62] Ms. Chard did not address any of these steps but instead merely reiterated the same testimony she offered in her original proposal.

Q. WHAT IS THE NEXT ASPECT OF MS. CHARD'S REBUTTAL TESTIMONY TO WHICH YOU WISH TO RESPOND?

A. Ms. Chard reiterates PAWC's proposal to recover its BDP and AFP costs through a reconcilable CAP Rider. She argues that the CAP Rider is authorized by Section 1330 of the Public Utility Code. I leave a response to the legal question of whether the proposed Rider is statutorily authorized to the written legal briefs to be filed post-hearing by the OCA. From a policy perspective, however, the proposed CAP Rider is not appropriate. Ms. Chard's rebuttal testimony does not address, let alone rebut, my observation that the proposed CAP Rider addresses only one impact of changes in participation in the BDP and AFP programs, the changes in revenue. As I demonstrated in my Direct Testimony, to which Ms. Chard does not respond: "Without taking into consideration all other rate impacts of the changing level of BDP/AFP costs, it is not possible to determine the extent to which, if at all, PAWC's *total* cost of service had increased as a result of the increased BDP/AFP costs. It is thus not possible to determine what dollar amount of cost recovery would need to be reflected in any increase in rates through the proposed CAP Rider."[63] Based on these considerations, proposals to collect universal service costs through a reconcilable rider have been previously denied for water companies. The only reason

[62] Id., at 84 – 85.

[63] OCA St. 4, at 93.

reconcilable riders have been approved for energy utilities is because they are specifically authorized by statute, an authorization which the PUC has previously held does not exist for water companies.[64]

Contrary to Ms. Chard's argument, this observation (i.e., that total costs will vary based on changes in BDP/AFP participation, not merely changes in revenues) does not assume that "participation will always be increasing." While Ms. Chard asserts that that assumption is implicit, she provides no basis for, or quantification of, how or why that assumption is implicit. In contrast, as I demonstrated in my Direct Testimony,[65] changes in participation will affect both revenues and expenses. It would be inappropriate to provide a reconciliation for revenues without adjusting also for the overall impacts on total cost of service.

Q. WHAT IS THE FINAL ASPECT OF MS. CHARD'S REBUTTAL TESTIMONY TO WHICH YOU WISH TO RESPOND?

A. Ms. Chard argues that the Company's proposed adder for its return on equity should be approved notwithstanding the management problems I identify. In making this argument, Ms. Chard does not address, let alone rebut, the management shortcomings I identify. Rather, she insists that management performance on any factors other than the acquisition of "troubled systems" should be ignored.[66] Whether the level of equity return, including any proposed management performance adder, should be set based on the single factor

[64] Id., at 95.

[65] Id., at 93 – 94.

[66] PAWC St. 2-R, at 21 – 22, and 24 - 26

asserted by Ms. Chard is a legal question. A response to Ms. Chard's legal argument will be provided by the OCA in its filing of post-hearing legal briefs.

Q. DOES THIS CONCLUDE YOUR SURREBUTTAL TESTIMONY?

A. Yes, it does.

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	:	
	:	
v.	:	Docket Nos. R-2025-3057983 (W)
	:	R-2025-3058051 (WW)
Pennsylvania-American Water Company	:	
	:	

VERIFICATION

I, Roger Colton, hereby state that the facts above set forth in my Surrebuttal Testimony, OCA Statement No. 4SR, 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 herein are made subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

DATED: March 16, 2026

Signature: 

Roger Colton

Address: Fisher Sheehan & Colton
34 Warwick Road
Belmont, MA 02478

BEFORE THE

PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	:	
	:	Docket Nos.: R-2025-3057983 (Water)
v.	:	R-2025-3058051 (Wastewater)
	:	
Pennsylvania American Water Company	:	

SURREBUTTAL TESTIMONY

OF

BARBARA R. ALEXANDER

Barbara Alexander Consulting LLC

ON BEHALF OF THE

THE PENNSYLVANIA OFFICE OF CONSUMER ADVOCATE

PUBLIC VERSION

March 13, 2026

Q. PLEASE STATE YOUR NAME, ADDRESS AND OCCUPATION.

A. My name is Barbara R. Alexander. I am the sole member of Barbara Alexander Consulting LLC. My address is 44 Beech St., Hallowell, ME 04347. I appear in this case as a witness on behalf of the Pennsylvania Office of Consumer Advocate (OCA).

Q. HAVE YOU PREVIOUSLY FILED TESTIMONY IN THIS PROCEEDING?

A. Yes. I filed direct testimony on behalf of the OCA on January 30, 2026.

Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

A. I am filing surrebuttal testimony in response to Pennsylvania American Water Company's (PAWC) rebuttal testimony filed by Mr. Jim Runzer, PAWC Statement No. 3-R, Dr. Christina Chard, PAWC Statement No. 2-R, and Mr. Matthew Prine, PAWC Statement No. 15-R. My surrebuttal addresses the following issues:

- Mr. Runzer's response to my discussion of the Commission's Service Quality Investigation Report required by PAWC's last rate case; his response to certain of the members of the public who testified at the public input hearings; and his response to my recommendations with respect to certain tariff proposals proposed by PAWC;
- Dr. Chard's response to my recommendation on revenues received for billing for non-basic services and use of PAWC's logo and brand by American Water Resources (AWR); her response to my recommendation to reduce PAWC's expenses for its use of third party call centers by 10% due to failure to perform at a reasonable performance level; and her response to my support for the recommendation to eliminate a higher rate of return and profit to PAWC's shareholders for management performance;
- Mr. Prine's response to my conclusions and recommendations on the performance of PAWC's call centers; PAWC's supervision of the third party call centers;

my recommendation for a root cause audit of customer call center performance, and his defense of the current program and presentation of AWR's non-basic services and products on PAWC customer bills

Q. DO YOU INCLUDE EXHIBITS WITH YOUR TESTIMONY?

A. Yes. I attach the following Exhibit to my Testimony:

- BA-6: Executive Summary of Pennsylvania Public Utility Commission Quality of Service Report.

I. RESPONSE TO REBUTTAL TESTIMONY OF PAWC WITNESS MR. JIM RUNZER

Q. DO YOU AGREE WITH MR. RUNZER'S CHARACTERIZATION OF YOUR TESTIMONY WITH REGARD TO THE QUALITY OF SERVICE INVESTIGATION REPORT REQUIRED BY THE COMMISSION AS A RESULT OF THE LAST BASE RATE CASE?

A. No. Mr. Runzer testifies, "Ms. Alexander states that she does not agree with the Commission's findings in its final report for the investigation." That is incorrect and does not reflect my testimony. My testimony did not challenge the findings and recommendations of this investigation. The Commission's Executive Summary[1] made clear that the investigation did not find a "singular, technical root cause" for the wide variety of quality of service issues and stated, "As such, it does not appear there are any systemic issues that span across PAWC's Northeastern Service Territory that are

[1] I attach the Commission's Executive Summary for this Report as Exhibit BA-6.

affecting its provision of water service as a public utility." The Commission acknowledged that PAWC was proactive in identifying the factors within each discrete system and had plans to address these issues. The Commission did not generally opine on PAWC's internal policies to address service quality issues and customer complaints. The Commission's statements reflected their evaluation of how PAWC conducted the required investigation. My testimony was to point out that the large volume of customer complaints led the Commission to order an investigation of these complaints. I opined that this episode highlighted the lack of internal policies at PAWC to identify these issues proactively and take the necessary steps prior to any intervention by the Commission or the filing of a base rate case. I continue to make my recommendation that this episode supports the recommendation of myself and other OCA witnesses that PAWC's proposal for a higher rate of return due to management performance be rejected. This specific event is not the only reason that I support the rejection of a higher rate of return but contributes to that overall concern that the Company has focused primarily on its acquisition of older water and wastewater systems as the basis for its proposal for higher profits for shareholders and ignores other relevant criteria. I will discuss additional reasons for rejecting this proposal later in my testimony.

Q. MR. RUNZER OFFERED AMENDMENTS TO PAWC'S PROPOSED TARIFFS WITH REGARD TO THE REQUIREMENT TO INSTALL A FLOW CONTROL DEVICE AND THE PROPOSAL WITH REGARD TO FAT, OIL, AND GREASE (FOG) DISCHARGES. DO YOU AGREE?

A. Yes. The proposed amendments appear reasonable and responsive to my concerns.

II. RESPONSE TO THE REBUTTAL TESTIMONY OF PAWC WITNESS DR. CHRISTINA CHARD

Q. DR. CHARD REJECTS YOUR RECOMMENDATION THAT THE REVENUES FROM NON-BASIC BILLING SHOULD BE IMPUTED EVEN IF PAWC HALTS BILLING FOR THESE PRODUCTS AND SERVICES. PLEASE RESPOND.

A. Dr. Chard rejects my recommendation on the grounds that revenues should not be "counted" if PAWC is no longer billing for non-basic services marketed and sold by American Water Resources. I clarify that my recommendation should be implemented to reflect the revenues that PAWC receives for allowing AWR to market to its customers, use the PAWC logo, and otherwise imply a relationship with PAWC that is designed to induce PAWC's customers to enroll with AWR's services. I agree that if PAWC is ordered to halt the billing of AWR services that the actual revenues related to that function do not need to be imputed to PAWC's revenues.

Q. DID YOU RECOMMEND THAT PAWC HALT BILLING FOR AWR'S NON-BASIC SERVICES?

A. No. I made several recommendations to reform the marketing and presentation of AWR's non-basic charges on PAWC's bill that I will address in response to PAWC's rebuttal testimony of Mr. Matthew Prine.

Q. PLEASE RESPOND TO DR. CHARD'S TESTIMONY IN OPPOSITION TO YOUR RECOMMENDATION TO DISALLOW 10% OF THE COSTS OF THE THIRD PARTY CALL CENTERS DUE TO THEIR POOR PERFORMANCE IN ANSWERING CUSTOMER CALLS IN A TIMELY MANNER.

A. Dr. Chard's testimony describes the value of the third party call centers and the need to rely on such contractors to supplement the American Water Works employee based call

centers. I do not object to relying on third party call centers. What I object to on behalf of the ratepayers of PAWC is relying on those call centers to provide subpar performance. I documented that poor performance in my direct testimony and in my Exhibit BA-2:

> The 2024 and 2025 annual average percentage of calls answered within 60 seconds is 47% and 44%, respectively, for one contractor, and 31% and 22%, respectively, for the other contractor. The annual average abandonment rate reflects similarly poor and unacceptable performance: 19% for one contractor for both 2024 and 2025, and 20% in 2024 and 23% in 2025, for the other contractor. The actual performance varies widely by month so that in some months PAWC customers experience abandonment rates of over 25%.[2]

These actual customer service performance metrics should be considered by the Commission when it determines PAWC's ROE. Additionally, they should be considered in relation to PAWC's claims of superior management performance. Shareholders should bear the risk of call center performance failures.

Q. DR. CHARD OPPOSES YOUR AND OTHER OCA WITNESS RECOMMENDATIONS TO REJECT AN INCREASE IN THE RETURN ON INVESTMENT FOR "PAWC'S SUPERIOR MANAGEMENT PERFORMANCE." DO YOU AGREE?

A. No. PAWC's basis for the continued support of higher profits in the form of a higher ROE is to award PAWC's shareholders for their acquisition of "troubled" water and wastewater systems. However, that objective has to be balanced with affordability of the PAWC bill for essential water and wastewater services and other criteria related to PAWC's customer service performance and services to its low income customers. Dr. Chard simply ignores any criteria other than the one she chooses to rely upon. PAWC's

[2] Direct Testimony of Barbara R. Alexander, OCA St. No. 5, page 11.

justification for its ROE and management performance ignores customer service performance as a criterion for this proposal to increase shareholder profits at the expense of the affordability of essential water and wastewater service. PAWC's proposal also ignores the frequency of its rate cases. The Commission's decision in PAWC's last base rate case denied a similar request based on its consideration of all the factors in 66 Pa.C.S. Section 523. I presume the same analysis and consideration of all the statutory criteria should be considered in this proceeding.

III. RESPONSE TO THE REBUTTAL TESTIMONY OF PAWC WITNESS MATTHEW PRINE

Q. DID MR. PRINE SUBMIT DIRECT TESTIMONY IN THIS PROCEEDING?

A. No.

Q. PLEASE GIVE AN OVERVIEW OF HIS REBUTTAL TESTIMONY.

A. Mr. Prine is the Vice President and Chief Customer Officer of American Water Works Service Company.[3] He supervises the call centers, customer service training, the functionality of the MyWater customer transactions, the Quality Assurance process for the parent company and its affiliates, including PAWC. His rebuttal testimony rejects all my recommendations. I will respond to his rebuttal testimony for each of my findings and recommendations.

RESPONSE TO MR. PRINE'S REBUTTAL ON CALL CENTER PERFORMANCE, COMPLIANCE OVERSIGHT, AND ROOT CAUSE

[3] 21.95% of Mr. Prine's salary and benefits are included in PAWC's rate proposal. PAWC Response to OCA-20-009.

ANALYSIS

Q. WHAT DID YOU RECOMMEND WITH REGARD TO CALL CENTER PERFORMANCE?

A. I recommended that PAWC must be required, as a condition of any rate increase in this proceeding, to mandate its call centers and its call center performance overall conform, at a minimum, to its corporate call center performance objective of answering 80% or more of calls within 60 seconds with an abandonment rate of 8% or less. These performance objectives should be imposed on call centers operated by its Parent Company and its third party contractors.

Q. WHY DID MR. PRINE REJECT THIS RECOMMENDATION?

A. Mr. Prine did not rebut my evidence about the performance of the third party call centers. Instead, he argues that using the wait times and call abandonment rates are not a sufficient representation of customer service: "In my experience, impressive customer service is based on the overall customer experience, which includes many performance factors other than wait times and the call abandonment rate. In fact, the highest driver of customer service that impacts overall satisfaction is first contact resolution. Other important customer satisfaction indicators that are not related to call performance that Ms. Alexander fails to consider include quality and value of service, proactive communications, ease of paying bills, and conservation."[4] However, in his attempt to avoid the actual performance of the call centers that he supervises, Mr. Prine ignores the universally accepted metrics that the Commission and most other state regulatory agencies rely upon to determine the basic question—when a customer of a monopoly

[4] PAWC St. No. 15-R, page 10, lines 6-12.

utility is trying to call that utility, is the call answered promptly by a live customer service representative qualified to handle the call or is the customer shunted into a long queue and then abandons the call? If the customer is not able to routinely access a trained and qualified customer service representative in a timely manner, many of the crucial rights and remedies that must be offered to customers are delayed or ignored. Mr. Prine argues that PAWC would have a 100 percent answer rate if the metrics included its IVR system, which answers all calls within 30 seconds. However, an automated pick up does not immediately provide a consumer with the potentially time critical information they require. As I explained in detail in my direct testimony, while there are many automated transactions that can and should be offered to customers, access to the call center to discuss the details of a customer bill, file a dispute or complaint, respond to a disconnection notice, negotiate a payment plan, explain a service quality or water quality issue, is a first step requirement to measure adequate service.

Q. MR PRINE ARGUES THAT THE THIRD PARTY CALL CENTERS ONLY HANDLE COLLECTION CALLS.[5] WHAT IS YOUR RESPONSE?

A. Collection calls are those relating to a customer who has an overdue bill or who has received a disconnection notice. These calls are exactly why highly functioning call center performance is crucial. These are the calls that must be handled with a person to person interaction, and this point only exacerbates and strengthens my findings and recommendations.

Q. DOES MR. PRINE UPDATE CALL CENTER PERFORMANCE AND DESCRIBE

[5] Ibid., page 10: "In 2025, approximately 19% of calls across the American Water footprint handled by CCAs were routed to those two collection agencies. Ms. Alexander's evaluation of PAWC's call handling performance in 2024 and 2025 is misleading because she truncates the data set to include only collections calls, which is a small portion of overall call volume."

INITIATIVES TO IMPROVE PERFORMANCE?

A. Yes. However, his updated performance data reflects all call centers, those directly employed by the service company and the third party call centers. I do not dispute that overall average performance data. However, he continues to refuse to promise any level of improvement or compliance with the Company's own internal standards for call center performance as a condition of rate increases in this proceeding. When asked if any of the service levels identified by Mr. Prine in his rebuttal testimony would be offered as a condition of any rate increase, he responded as follows:

> Question: Does PAWC commit to provide the level of service identified in 2025 in Figure 1 and 2 as a condition of a rate increase and approval of CSO costs associated with its call center operation? If not, why not?
> Response:
> No. Cost recovery for expenses is appropriate when those costs are determined to be reasonable and prudent to support the provision of safe and reliable service to its customers.
> In PAWC's last management audit, the Commission recommended that PAWC "improve customer service performance at minimum to pre-pandemic levels." In response, PAWC voluntarily committed to striving to achieve a service level of 80% of calls answered in 60 seconds or less, a metric that the Company achieved in 2025 and seeks to achieve going forward. **This service level is a voluntary PAWC goal and has no bearing on the Commission's approval of PAWC's recovery of all reasonable and prudently incurred costs in this case**.[6] (Emphasis added)

As a result, I continue to recommend that performance must be included as a condition of or to support any rate increase in this proceeding. I also rely on the Company's refusal to commit to any level of service quality and customer service performance as a condition of any rate increase as one of several reasons to reject any claim of a higher ROE based on management performance.

[6] PAWC Response to OCA-20-18.

Q. WHAT DID YOU RECOMMEND WITH RESPECT TO OVERSIGHT AND REGULAR AUDITING OF COMPLIANCE AT THE PAWC AND THIRD PARTY CALL CENTERS?

A. I recommended that PAWC should be required to undertake an annual audit and investigation of customer call center compliance with Pennsylvania's regulations by not only investigating customer complaints but affirmatively reviewing a valid sample of customer calls and subsequent transactions to find and respond to potential violations or improperly handled calls. Such audits with their findings and responses in the form of internal action undertaken should be available to stakeholders and submitted as evidence in PAWC's next base rate case. It is unreasonable to rely solely on PAWC's use of "coaching" to respond to findings of improper call handling.

Q. WHY DID MR. PRINE REJECT THIS RECOMMENDATION?

A. Mr. Prine misstates my recommendation. In an apparent reference to this recommendation, he states, "She asserts that because two third-party collections agencies have not met these metrics, PAWC should be required to audit its CSO and third-party contractor performance."[7] Mr. Prine then moves into a rebuttal on my use of the call center performance standards to justify his opposition to my performance level recommendations that should be ordered in this rate case.

Q. WHAT IS YOUR RESPONSE?

A. Mr. Prine does not directly address my recommendation. Rather, he pivots to a rejection of my use of the call center performance objectives.[8] My recommendation is designed to ensure a proper level of oversight of all the call centers, not only the contractor call

[7] Ibid., page 10, line 1-3.
[8] Ibid., page 10, lines 1-13.

centers. The purpose of this oversight should be to focus on compliance with the Pennsylvania consumer protection regulations. My recommendation requires PAWC or the service company to proactively review contacts with PAWC customers to explore compliance with the wide range of consumer protections reflected in these training materials. While those regulations are described in detail in PAWC's voluminous training materials, the existence of the training materials does not determine whether the training materials are understood or complied with. Customers do not know their rights in this level of detail so that it is unreasonable to rely on "customer satisfaction" to find compliance related concerns. The criteria he describes do not include any capture of calls in which the PAWC did not comply with the relevant consumer protection regulations. There is no evidence, as I documented in my direct testimony, that PAWC or the service company proactively audits or determines that its voluminous training materials are adhered to. Whether a customer is satisfied with the call is not dispositive of this issue since customers don't know their rights in the level of detail that PAWC is required to comply with. I continue to support my initial recommendation. Furthermore, the Quality Assurance program that Mr. Prine describes is also not a proper response to this concern as I discuss further below.

Q. DO THE CRITERIA USED TO REVIEW CUSTOMER CALLS INCLUDE PENNSYLVANIA SPECIFIC REQUIREMENTS?

A. No. The metrics identified on pages 15, lines 1-2, are used to evaluate individual agent performance for all calls handled throughout American Water and are not specific to Pennsylvania; therefore, they do not include noncompliance with Pennsylvania regulations and training materials. However, as part of the evaluation, the QA team

evaluates whether the agent followed the process specified in the applicable call center training materials, and if it is a PAWC customer call, the QA team reviews compliance with Pennsylvania regulations as part of the evaluation.[9]

Q. WHAT DID YOU RECOMMEND WITH RESPECT TO CONDUCTING A REGULAR ROOT CAUSE ANALYSIS OF CUSTOMER COMPLAINTS?

A. I recommended that PAWC should be required to conduct a proper root cause analysis of customer disputes and informal and formal complaints to identify complaint trends, underlying causes, and reforms or other steps undertaken to respond to these findings. PAWC should share its plan to conduct and methodology for a root cause analysis with stakeholders prior to undertaking such analysis. A root cause analysis should be undertaken within six months of the final order in this proceeding and the results shared with stakeholders and included in PAWC's next base rate case filing.

Q. HOW DID MR. PRINE RESPOND TO THIS RECOMMENDATION?

A. Again, Mr. Prine misstates or misunderstands my recommendation. His response to this recommendation conflates the call center performance issue, the audit recommendation for compliance at all call centers, and the root cause analysis of customer complaints.[10] He focuses on monitoring calls for customer satisfaction with the agent, quality scores, and average call handle time, but those criteria do not reflect and do not capture the root cause analysis of customer disputes and informal and formal complaints to identify complaint trends, underlying causes, and reforms or other steps undertaken to respond to these findings and determine compliance with the Pennsylvania consumer protections

[9] PAWC Response to OCA-20-002.
[10] Ibid., pages 14-15, starting at line 8.

that I recommended.

Q. DO YOU AGREE WITH MR. PRINE'S RELIANCE ON THE QUALITY ASSURANCE (QA) PROGRAM TO ENSURE COMPLIANCE WITH PENNSYLVANIA REQUIREMENTS?

A. No. When asked for the criteria for reviewing calls with the QA program, Mr. Prine stated:

> The QA team randomly samples a percentage of customers who have called into the call center to receive surveys. The sample group includes those customers who have email addresses on file, whose service is currently not turned off, and have not opted out of surveys. For all customers that rate their customer interaction to be "Poor" or "Fair" or if their interaction with the Company did not meet first contact resolution, the QA team will review their call for potential improvement opportunities or training identification.[11]

As a result, the QA process relies entirely on customers identifying their overall reaction to their call on their survey responses. There is no proactive evaluation of customer calls to determine compliance with the training materials and the Pennsylvania specific regulations. The QA process is not designed to ensure compliance but appears to be focused on customer satisfaction with a recent transaction, a reasonable objective but one that does not encompass my recommendation.

Q. DOES PAWC OR AW CONDUCT ANY ROOT CAUSE ANALYSIS OF PENNSYLVANIA CUSTOMER CALLS REVIEWED IN ITS QUALITY ASSURANCE PROGRAM?

A. No. Mr. Prine states:

> The Company does not conduct root cause analyses by utility or state footprint. Instead, the QA team reviews all calls (regardless of the state/utility) that meet the criteria discussed in the Company's response to OCA 20-011. For PAWC calls referred to the QA team, the QA team takes the following steps: 1) reviewing the call recording, 2)

[11] PAWC Response to OCA-20-011.

identifying inconsistencies with Company procedures, 3) identifying divergence with PAWC-specific requirements; and 4) identifying corrective actions. The corrective actions could include coaching, training, and/or discipline. The CSO does not prepare written root cause analysis reports, and therefore, the Company can describe the root cause analysis process but not provide an example written report.[12]

Therefore, I continue to support my recommendation.

Q. AS A RESULT OF YOUR ANALYSIS OF PAWC'S CALL CENTER PERFORMANCE AT THE THIRD PARTY CALL CENTERS, WHAT DID YOU RECOMMEND?

A. I recommended that PAWC's actual costs included in its revenue requirement for third party call centers be penalized in the form of a 10% reduction in response to the oversight failures and poor performance I have documented.

Q. HOW DID THE COMPANY RESPOND?

A. Dr. Chard responded to this recommendation, and I discussed why her rejection should not be adopted in the prior section of this testimony.

RESPONSE TO MR. PRINE'S REBUTTAL ON MARKETING AND BILLING FOR NON-BASIC SERVICES

Q. PLEASE SUMMARIZE MR. PRINE'S REBUTTAL TESTIMONY WITH REGARD TO THE RELATIONSHIP BETWEEN PAWC AND AMERICAN WATER RESOURCES (AWR) OR ONCOURSE HOME SERVICES.

A. Mr. Prine described the historical connection between these entities. American Water Resources was an affiliate but was sold in 2021 and operates under a Trademark Licensing Agreement with American Water as a brand of Oncourse Home Solutions.

[12] PAWC Response to OCA-20-013.

There was also a Utility Agreement entered into at the time of the sale to allow the PAWC bill to include these charges and collect and remit them. The presentation of these charges on the bill, as I included as Exhibit BA-3, has not changed in 20 years since before the sale of AWR. AWR uses the PAWC name and logo for marketing purposes.[13] According to Mr. Prine, "AWR provides an essential service for many of PAWC's customers who cannot manage the significant cost of water and sewer line repair, so PAWC's sharing of customer data to ensure customers have information about AWR's services is reasonable."[14]

Q. WHAT CUSTOMER PERSONAL INFORMATION DOES PAWC SHARE WITH AWR?

A. In response to discovery, Mr. Prine states, "Customer information that is shared with AWR includes name, address, phone number, and email subject to extensive confidentiality and non-disclosure requirements."

Q. WERE YOU AWARE OF THIS SHARING OF CUSTOMER DATA WHEN YOU PREPARED YOUR DIRECT TESTIMONY?

A. No.

Q. PLEASE DISCUSS YOUR CONCERNS WITH THE SHARING OF PAWC CUSTOMER DATA WITH AWR TO ALLOW AWR TO MARKET AND SELL ITS NON-BASIC SERVICES?

A. A Pennsylvania public utility should not be allowed to share personal customer information to a third party to market non-basic services without notice to its customers and a customer's affirmative agreement to allow such information to be shared. Electric

[13] Ibid., page 15-16.
[14] Ibid., page 17, lines 14-16.

and natural gas utilities are not allowed to provide such data to licensed retail electric and natural gas suppliers without prior notice to their customers and providing the option to opt out of allowing this information to be provided to these energy suppliers. I note that energy suppliers are licensed by the Commission, subject to jurisdiction for violation of customer rights and misuse of this data. AWR is not licensed and not otherwise subject to the Commission's jurisdiction and there does not appear to be any specific regulation that governs PAWC's ability to sell its customer lists, phone numbers and email addresses to any third party. This development and new information supports my overall concerns with this current arrangement between AW, PAWC, and AWR and my recommendations.

Q. WHAT DID YOU RECOMMEND TO REFORM THE MARKETING OF THESE SERVICES BY AMERICAN WATER RESOURCES (ONCOURSE HOME SERVICES)?

A. I recommended that the Commission order that the marketing of these services be reformed. I recommended requiring that marketing and billing for these services be identified as optional services provided by Oncourse Home Services. The use of the PAWC logo and the fictitious name of American Water Resources (an entity that operates as a "brand" for Oncourse Home Solutions and is adopted specifically to market its products to American Water utility customers) should be prohibited as a basic consumer protection matter. The Commission has the authority to impose such conditions on allowing the use of PAWC's customer lists and access to the PAWC bill by this third party entity.

Q. HOW DID MR. PRINE RESPOND TO THIS RECOMMENDATION?

A. Mr. Prine rejects this recommendation because it has been done historically and points to the fine print disclosures that disclaim any relationship.[15]

Q. DO YOU AGREE WITH MR. PRINE'S BASIS FOR REJECTING YOUR RECOMMENDATION?

A. No. I assume that Mr. Prine seeks to continue to allow AWR to use a name that suggests "American Water" but is not the real name of the service provider and to use the PAWC name and logo, which are substantial benefits to the marketing and sale of AWR's products and services. The reliance on a fine print disclosure that appears to deny the actual connection that permeates the marketing material is unreasonable. This bold print connection and fine print disconnection is confusing and misleading.

Q. WHAT DID YOU RECOMMEND ABOUT REFORMING HOW THESE NON-BASIC CHARGES APPEAR ON THE PAWC CUSTOMER BILL?

A. I recommended that PAWC's customer bill not include any non-basic charges in the same section with the calculation of the regulated service charges. Non-basic charges should be separately identified and disclosed with a separate total. A statement should also be included that gives the customer the option to include this charge on the monthly PAWC bill or receive a separate bill for these optional services from Oncourse Home Services.

Q. HOW DID MR. PRINE RESPOND TO THIS RECOMMENDATION?

A. Mr. Prine relies on his conclusion that the presentation reflects the Commission's regulations.

Q. DO YOU AGREE WITH MR. PRINE'S REJECTION OF YOUR

[15] Ibid., page 18.

RECOMMENDATION?

A. No. My recommendation is not a reflection of Commission's "regulations." I am not aware of any detailed regulations governing how the non-basic charges should appear on the regulated utility bill. There is certainly room to consider alternatives that would more clearly separate the regulated utility charges and amount due from the non-basic charges and amount due. If, as Mr. Prine, agrees, a customer can simply stop payment of the AWR charges without losing their PAWC regulated services, the separate presentation of these charges in a separate section of the bill will only help the customer understand this option. Instead, under the current presentation, the customer's total amount due includes the AWR non-basic charges and any automatic bill payment option would naturally include these charges in the amount deducted from the customer's preferred payment option. There is no reasonable way that the customer can clearly differentiate their payment options with the current PAWC bill presentation.

Q. DO PAWC CUSTOMERS HAVE AN OPTION TO PURCHASE AWR PRODUCTS AND SERVICES AND PAY OUTSIDE OF THEIR PAWC BILL?

A. No such offer to purchase these services and receive bills directly from AWR is provided to the customer. The only option presented in the enrollment form is for the customer to affirmatively agree to include these charges on their PAWC bill as I documented in Exhibit BA-4 (Confidential) attached to my direct testimony. When asked to provide any basis for the suggestion that PAWC customers could purchase AWR's services and receive a bill directly from AWR, Mr. Prine was unable to do so.[16]

[16] PAWC Response to OCA-20-020 included a document of AWR's terms and conditions that reference acceptable payment methods, referring to the payment option agreed to at the time of enrollment. This document is a generic one that is not an enrollment document, but a confirmation of terms and conditions provided after enrollment.

Q. WHAT DID YOU RECOMMEND WITH RESPECT TO PAWC'S TRAINING MATERIALS CONCERNING INQUIRIES ABOUT THE AWR CHARGES?

A. I recommended that PAWC's customer service training materials require PAWC representatives to state that PAWC is paid to promote and bill for these optional AWR (Oncourse Home Services) services and that home protection services are available from several providers.

Q. HOW DID MR. PRINE RESPOND TO THIS RECOMMENDATION?

A. Mr. Prine states that neither PAWC nor AW employees "market or promote any AWR services or products."[17] He also references the website disclosures on AWR's website: "AWR's website includes clear disclosures that it is not affiliated with American Water and that AWR's services are optional."[18]

Q. HOW DO YOU RESPOND TO THE BASIS FOR HIS REJECTION OF YOUR RECOMMENDATION?

A. While he states that employees of PAWC and American Water do not market these services, he does acknowledge that **[BEGIN CONFIDENTIAL]** [redacted] **[END CONFIDENTIAL]** In light of this potential development, my recommendation should be explicitly adopted to prevent this potential contractual option from being implemented in the future.

Q. WHAT DID YOU RECOMMEND WITH REGARD TO ENSURING THAT PAWC IS NOT DISCRIMINATING IN OFFERING ITS NON-BASIC BILLING OPTION TO

[17] Ibid., page 20, line 5-6.
[18] Ibid., page 20, lines 7-9.
[19] Ibid., page 16.

OTHER PROVIDERS?

A. I recommended that PAWC should be required to document that it has offered the use of its customer bills for non-basic services to any third-party provider that markets home protection services or, as an option, terminate this program. Among other purposes, such a competitive process may result in less expensive products to PAWC's customers compared to the sole source use of Oncourse Home Solutions.

Q. HOW DID MR. PRINE RESPOND TO THIS RECOMMENDATION?

A. He rejects this recommendation. Even though **[BEGIN CONFIDENTIAL]** [redacted] **[END CONFIDENTIAL]**, Mr. Prine relies on the following statement, "Since the Company's last base rate case, no other third party has sought to include its non-commodity products and services on PAWC's bills."[20]

Q. HOW DO YOU RESPOND TO THE BASIS FOR HIS REJECTION OF YOUR RECOMMENDATION?

A. While it may be true that no other third party has asked to bill on PAWC's bill, PAWC confirms that AW has not solicited any other provider of non-basic services to use PAWC's logo or appear on PAWC's bill since 2021.[21] As a result, Mr, Prine's excuse to justify the sole use of AWR on PAWC customer bills should be discounted. Neither AW nor PAWC have ever publicly sought such offers, compared them with the charges by AWR, or conducted a due diligence to ensure that what PAWC customers would pay for these services would be the focus of the analysis as opposed to AW's corporate revenues.

[20] Ibid., page 19, lines 7-9.
[21] PAWC Response to OCA—20-023 confirms this statement.

IV. SUMMARY OF CONDITIONS THAT SHOULD BE ATTACHED TO ANY RATE INCREASE

Q. AS A RESULT OF YOUR REVIEW AND RESPONSE TO PAWC'S REBUTTAL TO YOUR RECOMMENDATIONS, DO YOU HAVE ANY CHANGES?

A. Only one. I agree that the recommendations to the tariff proposals are reasonable. As a convenience, I repeat my recommendations:

- PAWC's failure to include any customer service or consumer protection performance goals and criteria for its claim of management excellence and reward of a higher rate of return is a serious defect and should contribute to the overall rejection of this proposal by the Company. I support other OCA witnesses in recommending a denial of any increase in the reward to shareholders. The constant and significant rate increases that PAWC has sought and received in recent rate increases does not support a reward of any kind.

Q. PLEASE SUMMARIZE THE RECOMMENDATIONS THAT YOU HAVE DOCUMENTED AND SUPPORTED IN YOUR TESTIMONY.

<u>PAWC's customer service performance and management oversight of its internal and external third-party contractors</u>:

- First, PAWC, as a condition of any rate increase in this proceeding, must require that its call centers and its call center performance overall conform, at a minimum, to its corporate call center performance objective of answering 80% or more of the calls within 60 seconds with an abandonment rate of 8% or less. These performance objectives should be imposed on call centers operated by its Parent Company and its third-party contractors.
- Second, PAWC should be required to undertake an annual audit and investigation of

customer call center compliance with Pennsylvania's regulations by not only investigating customer complaints but affirmatively reviewing a valid sample of customer calls and subsequent transactions to find and respond to potential violations or improperly handled calls. Such audits with their findings and responses in the form of internal action undertaken should be available to stakeholders and submitted as evidence in PAWC's next base rate case. It is unreasonable to rely solely on PAWC's use of "coaching" to respond to findings of improper call handling.

- Third, PAWC should be required to conduct a proper root cause analysis of customer disputes, informal, and formal complaints to identify complaint trends, underlying causes, and reforms or other steps undertaken to respond to these findings. PAWC should share its plan to conduct, and methodology for, a root cause analysis with stakeholders prior to undertaking such analysis. A root cause analysis should be undertaken within six months of the final order in this proceeding and the results shared with stakeholders and included in PAWC's next base rate case filing.
- Fourth, I recommend that, at a minimum, PAWC's performance as I have documented here support the recommendations of other OCA witnesses to oppose PAWC's request for any increase in its rate of return for management performance.
- Finally, I recommend that PAWC's actual costs included in its revenue requirement for third party call centers be penalized in the form of a 10% reduction in response to the oversight failures and poor performance I have documented.

<u>PAWC's Relationship with American Water Resources (Oncourse Home Services)</u>:

- First, the Commission should order that the marketing of these services be reformed to require that the marketing and billing of these services be identified as

optional services provided by Oncourse Home Services. The use of the PAWC logo and the fictitious name of American Water Resources (and entity the that operates as a "brand" for Oncourse Home Solutions and is adopted specifically to market its products to American Water utility customers) should be prohibited as a basic consumer protection matter. The Commission has the authority to impose such conditions on allowing the use of PAWC's customer lists and access to the PAWC bill by this third-party entity.

- Second, PAWC's customer bill should not include any non-basic charges in the same section and calculation of the regulated service charges. Non-basic charges should be separately identified and disclosed with a separate total with a statement that the customer has the option to include this charge on the monthly PAWC bill or receive a separate bill for these optional services from Oncourse Home Services.
- Third, PAWC's customer service training materials should require PAWC representatives to state that PAWC is paid to promote and bill for these optional Oncourse Home Services and that home protection services are available from a number of providers.
- PAWC should be required to document that it has offered the use of its customer bills for non-basic services to any third-party provider that markets home protection services or, as an option, terminate this program. Among other purposes, such a competitive process may result in less expensive products to PAWC's customers compared to the sole source use of Oncourse Home Solutions.
- Finally, the revenues PAWC receives for these non-basic services, and their accompanying costs should be shifted to shareholders and not PAWC's ratepayers.

<u>PAWC's Service Quality Performance</u>:

- In response to the Commission's Report on PAWC's service quality performance for its Northeast Service Territory, I recommend that this episode is one of many reasons to support the recommendations of myself and other OCA witnesses that PAWC's proposal for a higher rate of return due to management performance be rejected.

Q. DOES YOUR TESTIMONY OVERALL SUPPORT OTHER OCA WITNESSES WHO REJECT THE COMPANY'S INCREASED ROE AND HIGHER PROFITS FOR MANAGEMENT PERFORMANCE?

A. Yes. PAWC completely ignores customer service performance generally and its call center performance specifically as a basis for consideration in evaluating claims of management performance and higher ROE. The Company has explicitly refused to link its proposal for higher rates and higher ROE to any specific performance for service quality or customer service. The lack of this linkage, as well as other criteria identified by other OCA witnesses, supports my recommendation for rejecting any higher ROE than necessary to ensure compliance with statutory obligations. PAWC's history of frequent rate increases and the Commission's recent rejection of this same proposal in the last rate case contribute to my recommendation,

Q. DOES THIS COMPLETE YOUR TESTIMONY AT THIS TIME?

A. Yes.

Exhibit BA-6

Executive Summary of Pennsylvania Public Utility Commission Quality of Service Report



PAWC QUALITY OF SERVICE INVESTIGATION

Executive Summary & Report

August 2025

COMMONWEALTH OF PENNSYLVANIA
PENNSYLVANIA PUBLIC UTLITY COMMISSION
HARRISBURG, PA

PAWC Quality of Service Investigation – Executive Summary
(August 2025)

Background

On November 8, 2023, Pennsylvania American Water Company (PAWC) filed a proposed base rate increase with the Pennsylvania Public Utility Commission (Commission) at Docket Nos. R-2023-3043189 and R-2023-3043190, seeking increases to its water and wastewater rates.

A total of 217 witnesses testified at the proceeding's public input hearings. The witnesses testified regarding a variety of topics, including affordability, quality of service, support for PAWC, and other miscellaneous topics. The public input hearing testimony revealed a trend in allegations of negative quality-of-service experiences due to a lack of water quality, particularly in the northeastern region of PAWC's service territory, which encompasses the Scranton and the greater Lackawanna County region. For instance, witnesses testified regarding dirty water, particles in the water, unpalatable water, and chlorine odor.

In addition, approximately 30 complaints and 50 publicly filed comments asserted negative quality-of-service issues with PAWC's water service. The complaints and comments also exhibited a trend in customer concerns regarding the quality of water service in PAWC's Northeastern Service Territory. For example, customers noted that the water was dirty with a chlorine odor, resulting in customers using water filters or bottled water.

Based upon the cumulative number of quality-of-service concerns raised in the proceeding via complaints, written comments, and testimony presented at the public input hearings, the Commission determined that further investigation was warranted to determine the cause of the quality-of-service issues and ensure that PAWC effectively addresses the issues raised in the proceeding.

On July 22, 2024, the Commission entered its final order on the rate case proceeding. In that final order the Commission directed its Staff to implement an investigation into the quality-of-service issues in PAWC's Northeastern Service Territory. The Commission specified that the investigation

may involve conferencing with PAWC, issuing data requests, coordinating with the Pennsylvania Department of Environmental Protection (DEP), or any other action deemed necessary by Commission staff to explicate the quality-of-service issues.

Staff have concluded their initial investigation, which is attached to this overview.

Key Findings

Scranton Water System Chlorine Residual – PAWC's Scranton Water System exhibited higher-than average chlorine residual compared to its other systems.

The investigation observed that, due to the size and complexity of the Scranton Water system, PAWC maintains higher chlorine residual than other systems to ensure compliance with applicable Environmental Protection Agency (EPA) minimum residual disinfectant levels (MinRDL).

The investigation noted PAWC's construction of a new 3.5-million-gallon baffled water storage facility at the Lake Scranton Water Treatment Plant that will improve overall disinfection efficiency for the system.

Manganese Levels in the Northeast – PAWC's northeastern systems have exhibited manganese levels above secondary maximum containment levels (SCML) or Health Advisory Levels (HALs) established by the EPA. SCMLs are established to address the aesthetic considerations of the taste, color, and odor of water. HALs are established to protect the health of those consuming water.

Scranton Manganese SCML - Staff review of the Scranton Water System exhibited manganese metrics above EPA SCMLs. The investigation determined that the Scranton Water System manganese levels can be attributed to the turnover of Lake Scranton (detailed below). PAWC indicated that it recently invested $2.3 million into two new potassium permanganate bulk storage tanks that will provide greater process control related to manganese. Commission Staff review of the Manganese levels pre and post this construction shows a reduction in the average mg/L from 0.03 to 0.01.

Blue Mountain Lake Manganese HAL – PAWC recently observed groundwater sources in the Blue Mountain Lake system with manganese levels above the EPA SCML and HAL. PAWC stated that lower aquifer levels due to drought along with recent geological activity are a likely cause for these higher levels.

On March 27, 2025, PAWC completed the installation of a $2.6 million manganese removal system resulting in the levels dropping below HAL and SCML.

Montrose and Susquehanna Water Systems – Montrose has experienced seasonal variations in Manganese that exceeds SCML from time-to-time. The Susquehanna Water System is supplied from a source prone to rapid changes in raw water quality resulting in treatment challenges.

PAWC is in the process of redesigning the Montrose filter system to improve effectiveness. PAWC is also designing a new treatment plant for Susquehanna. In the interim, PAWC applied for a new treatment permit with DEP to improve manganese removal.

Lake Scranton Turnover – Turnover is caused by the rapid cooling and warming of water, causing water to change stratification, or layering, between top and bottom layers. This event can cause high concentrations of organics and metals like manganese and iron to rise to the surface.

The investigation shows that turnover may be one of the key causes for the brown, dirty, and discolored water complained about in the rate proceeding.

PAWC upgraded its chemical feed system at Lake Scranton, allowing it to more rapidly respond and improve water quality.

Main Breaks and Replacements – The investigation notes that water main breaks in the Scranton Water System are prone to affect significantly more customers than other main breaks in PAWC's northeast operations. This is the case since the Scranton System is PAWC's largest in its northeast service territory. As an example, the report highlights a significant main break occurrence on Septembers 28, 2023 resulting in four schools in the Scranton area closing for the day.

PAWC's infrastructure replacement program has exhibited rehabilitation to the Scranton System. In Fall of 2024 PAWC completed a project in the Scranton Water System replacing 28,851 feet of cast iron pipe of a vintage between 1868 and 1924. In February 2025, PAWC also began a project in Scranton and Dunmore involving the replacement of 30,000 feet of pipe dated between 1888 and 1964. PAWC also indicated that it intends to improve customer communication regarding infrastructure improvement to increase awareness of current and future projects.

Next Steps

Upon review of the Staff Report investigating PAWC's quality-of-service issues in the northeast, the Commission acknowledges that steps toward improvement are being made. However, this report is but one snapshot in time, and to ensure that these apparent improvements continue to result in improved quality-of-service, the Commission commits to continued monitoring of PAWC's Northeast Water System.

Continued Monitoring

This monitoring will entail the following. Commencing August of 2025, the Bureau of Technical Utility Service (TUS), with any necessary support from the Law Bureau, will obtain the following metrics every six months over the course of the next three years.

- Chlorine concentration for the Scranton System and all other applicable Northeast Water Systems of PAWC.
- Manganese concentration for the Scranton System and all other applicable Northeast Water Systems of PAWC.
- Information and observations regarding turnover events at Lake Scranton.
- Summaries of water main breaks on the Scranton Water System.

Touch Points with Concerned Customers

Further, the Commission commits to having personal communications with the various customers who raised issues at the underlying rate proceeding. The intent will be for the Commission to learn if the improvements observed at this initial investigation are manifesting tangible results at the customer taps. To that end, TUS, with any assistance necessary from Law Bureau or the Bureau of Consumer Services, will make personal contact with these customers periodically to ascertain their observations regarding PAWC's quality-of-service.

Reporting at this Docket

The results of Commission Staff's continued monitoring and touch points with customers will be documented in reports uploaded to this docket, Docket No. M-2024-3051789, every six months. Further, should Commission Staff believe these reports warrant further action by the Commission, Staff may take any reasonable actions necessary to ensure continued improvement, including referring the results of these monitoring actions and customer touch points to the Commission's Bureau of Investigation and Enforcement.

Conclusion

The Commission thanks all the customers of PAWC who helped inform the Commissioners of their quality of services issues which resulted in the decision to conduct this initial investigation. We encourage all customers of PAWC to continue corresponding with the Commission regarding all issues relating to their utility service, including but not limited to potentially utilizing the informal or formal complaint process.

The Commission thanks its Staff for their continued and dedicated work to ensure reasonable service for the customers of PAWC, and we thank PAWC for its cooperation in this investigation.

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Pennsylvania Public Utility Commission	:	
	:	
v.	:	Docket Nos. R-2025-3057983 (W)
	:	R-2025-3058051 (WW)
Pennsylvania-American Water Company	:	
	:	

VERIFICATION

I, Barbara R. Alexander, hereby state that the facts above set forth in my Surrebuttal Testimony, OCA Statement No. 5SR, 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 herein are made subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

DATED: March 13, 2026

Signature: */s/ Barbara R. Alexander*
Barbara R. Alexander

Address: Barbara Alexander Consulting LLC
44 Beech Street
Hallowell, ME 04347