RESPONSE TO

PUBLIC ADVOCATE'S INTERROGATORIES

AND

REQUESTS FOR PRODUCTION OF DOCUMENTS

QUESTIONS 1-21

Dated: April 2025

PA-XI-1. REFER TO PAGE 11 OF PWD STATEMENT 2A. THE PANEL DISCUSSES CHANGES PWD HAS MADE TO CAPITAL FUNDING.

- A. WHEN DID THIS CHANGE OCCUR?
- B. PLEASE EXPLAIN THE DIFFERENCES IN FUNDING CONSTRUCTION PROJECTS BY CONTRASTING THE OLD APPROACH TO FUNDING VERSUS THE NEW APPROACH TO FUNDING.

RESPONSE:

- A. The Department adjusted its capital funding approach in the last half of calendar year 2024, during the planning and development of the Series 2024C Water and Wastewater Revenue Bonds.
- B. As stated on page 14 of PWD Statement 7, the new capital funding approach provides project funding "in a manner that more closely aligns the progress of construction, rather than contracting projects only after all funding has been secured." Under the old approach the capital program funding plan was developed in a manner to provide sufficient funding to support the capital program encumbrances (executed contracts) until the next anticipated bond issuance. Under the new approach the capital program funding plan is developed in a manner to provide sufficient funding to support the capital program spending until the next anticipated revenue bond issuance. In other words the basis of the funding was changed from project encumbrances to project expenditures. The new approach requires that the Department have sufficient authorization, not necessarily sufficient funds in the bank, prior to encumbering projects since projects take years in construction.

RESPONSE PROVIDED BY: Philadelphia Water Department

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PA-XI-2. REFER TO PAGE 24, LINES 17 - 21 OF BLACK & VEATCH'S TESTIMONY.

- A. PLEASE PROVIDE THE SPECIFIC REASON FOR INCREASING THE SMIP/GARP COST BY \$10 MILLION IN FY 2027.
- B. PLEASE IDENTIFY THE NEGATIVE CONSEQUENCES TO BE EXPERIENCED BY PWD IF THE SMIP/GARP COSTS ARE NOT INCREASED BY THE REQUESTED \$10 MILLION IN FY 2027.
- C. PLEASE IDENTIFY THE NEGATIVE CONSEQUENCES EXPERIENCED BY PWD FROM REDUCING THE SMIP/GARP COSTS TO \$15 MILLION.

RESPONSE:

- A. The Water Department intends to restore the SMIP/GARP program to its full funding level. The budget has been temporarily reduced to aid in managing through reductions in actual revenue receipts.
- B. SMIP/GARP contributes directly to the Water Department (and the City) meeting its greened acre goals as outlined in the Green City Clean Waters (GCCW) program in accordance with the Consent Order and Agreement (COA). As of June 30, 2024, the SMIP/GARP program has contributed 1,009 greened acres in support of required compliance milestones, which represents approximately 1/3 of the system greened acres. Without sufficient and stable funding, the Water Department risks potentially missing greened acres milestones. In addition, the continued fluctuation in budget leads to less certainty in potential grant awards and impacts the potential pipeline of projects seeking support via the program.
- C. By reducing the SMIP/GARP budget temporarily, the Water Department has delayed the implementation of greened acres and slowed progress toward required COA milestones. In addition, the fluctuating budget has raised uncertainty amongst property owners and aggregators, who might pursue funding, provided the program is in place and they can anticipate receiving some support.

1	RESPONSE	PROVIDED BY:	Philadelphia Water Department
2	PA-XI-3.	PLEASE PROVIDE	THE SOURCE DATA FOR THE FY 2026 AND FY 2027
3		CPI ESCALATION	FACTOR OF 3.38% AS PRESENTED ON PAGE 25 OF
4		BLACK & VEATC	H'S TESTIMONY.
5			
6	RESPONSE	:	
7	Please	e refer to PWD Statem	ent 7: Schedule BV-2. Escalation factors are further discussed
8	in Sec	tion 1.4.2. Source data	a is provided in Appendix F: O&M Cost Industry Indices Data
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10	RESPONSE	PROVIDED BY:	Black & Veatch Management Consulting, LLC.
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REFER TO PAGE 25 OF BLACK & VEATCH'S TESTIMONY. PLEASE
PROVIDE AN ITEMIZED LIST OF THE EQUIPMENT TO BE PURCHASED
DURING FY 2026 AND FY 2027 OF \$3.1 MILLION AND \$3.8 MILLION,
RESPECTIVELY. PLEASE EXPLAIN WHY THE FY 2027 AMOUNT
DIFFERS FROM THE AMOUNT PRESENTED IN ADJUSTMENT 4.

RESPONSE:

PA-XI-4.

This question misstates the text presented on page 25 of Black & Veatch's testimony. Lines 18 to 20 of page 25 of Statement 7 state: (emphasis added) "Planned increases in equipment purchases of \$3.1 million in FY 2026 to \$3.8 million in FY 2030 are included per planned additions by the Water Department." This statement is consistent with the amounts presented as Adjustment 4 on pages 296 to 298 of PWD Exhibit 6.

Please refer to page 1-19 of Schedule BV-2 which presents that the adjustment to equipment to provide additional vehicles and equipment. Response Attachment PA-XI-4 provides background information regarding this adjustment.

RESPONSE PROVIDED BY: Black & Veatch Management Consulting, LLC. and Philadelphia Water Department

1	PA-XI-5.	PLEASE PROVIDE	THE SOURCE DATA FOR THE PPI FY 2026 AND FY
2		2027 ESCALATION	FACTOR OF 2.06% AS PRESENTED ON PAGE 25 OF
3		BLACK & VEATCH	I'S TESTIMONY.
4			
5	RESPONSE	:	
6	Please	e refer to PWD Stateme	ent 7: Schedule BV-2. Escalation factors are further discussed
7	in Sec	tion 1.4.2. Source data	is provided in Appendix F: O&M Cost Industry Indices Data.
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9	RESPONSE	PROVIDED BY:	Black & Veatch Management Consulting, LLC.
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PA-XI-6. **RESPONSE:**

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27 28 REFER TO PAGE 26 OF BLACK & VEATCH'S TESTIMONY. PLEASE CONFIRM THAT THE ESTIMATED INCREASE IN MATERIALS AND SUPPLIES DURING FY 2026 AND FY 2027 ARE BASED ON THE 2027 CPI ESCALATION FACTOR OF 3.38%. IF NOT, PLEASE SHOW HOW THEY WERE DERIVED.

Lines 1 to 6 of page 26 of Statement 7, including the referenced inset box presented on Lines 11 to 16 of page 25, present the escalation factors utilized for projecting Materials and Supplies costs during the study period which includes identifying 3.38% as the

escalation factor for FY 2026 and FY 2027. In addition, these lines also refer to the additional increased expenses of \$0.6 million in FY 2026 to \$0.7 million in FY 2030 for

Fleet Management.

Please refer to page 1-19 of Schedule BV-2 which presents this additional adjustment related to materials and supplies for vehicles under Fleet Management. These additional expenses include the increased cost associated with changing the water fund vehicle's diesel fuel to renewable diesel fuel per City policy as well as increased costs experienced for vehicle parts and lubricant costs.

Response Attachment PA-XI-6 provides a breakdown of the estimated fleet materials and supplies cost increases included in the adjustment. Note that the rate filing reflects a preliminary estimate which is less than the amount supported by this attachment.

RESPONSE PROVIDED BY: Black & Veatch Management Consulting, LLC.

PA-XI-7. REFER TO TABLE C-7: PROJECTED CAPITAL IMPROVEMENT PROGRAM.

- A. PLEASE EXPLAIN WHY THERE ARE SIGNIFICANT INCREASES IN DISTRIBUTION SYSTEM REHABILITATION EXPENDITURES DURING THE RATE YEARS FY 2026 AND FY 2027 FOLLOWED BY DECREASES IN FYS 2028 2030.
- B. PLEASE PROVIDE THE BREAKDOWN, SHOWING THE COMPONENTS, OF THE DISTRIBUTION SYSTEM REHABILITATION EXPENDITURES FOR THE FY 2025 (\$150,100,000), FY 2026 (\$203,100,000) AND FY 2027 (\$202,100,000).
- C. PLEASE PROVIDE A COPY OF PWD'S APPROVED CAPITAL
 BUDGETS FOR FY 2026 AND FY 2027 FOR EACH YEAR SHOWING
 THE PURPOSE AND REASON FOR THE PROJECTS INCLUDED IN
 EACH FISCAL YEAR BUDGET.

RESPONSE:

- A. Distribution System Rehabilitation <u>Appropriations</u> increased in FY 2026 and FY 2027 when compared to FY2025 due to:
 - (1) the increased cost of water main replacement (i.e., cost per mile of water main went from \$2.8 million per mile to \$5.25 million per mile); and
 - (2) The inclusion of the lead replacement program to comply with new Federal Lead and Copper Rule Revisions.
- B. See table below for breakdown of components for Distribution System Rehabilitation expenditures.

	FY2025	FY2026	FY2027
Water Reconstruction	\$120,000,000	\$168,000,000	\$168,000,000
Water Revitalization Plan	\$30,000,000	\$10,000,000	\$10,000,000

Lead Replacement		\$25,000,000	\$24,000,000
Water Expansion	\$100,000	\$100,000	\$100,000
Total	\$150,100,000	\$203,100,000	\$202,100,000

C. See page 248 of the proposed FY 2026-2031 Capital Budget - <u>capital-program-rec-FY2026.pdf</u>

RESPONSE PROVIDED BY: Philadelphia Water Department

PA-XI-9. REFER TO TABLE C-7: PROJECTED CAPITAL IMPROVEMENT PROGRAM.

- A. PLEASE EXPLAIN WHY THERE ARE SIGNIFICANT INCREASES IN RECONSTRUCTION OF SEWERS EXPENDITURES DURING THE RATE YEARS FY 2026 AND FY 2027.
- B. PLEASE PROVIDE THE BREAKDOWN, SHOWING THE COMPONENTS, OF THE RECONSTRUCTION OF SEWERS EXPENDITURES FOR THE FY 2025 (\$96,000,000), FY 2026 (\$140,500,000) AND FY 2027 (\$150,500,000).
- C. PLEASE PROVIDE A COPY OF PWD'S APPROVED CAPITAL
 BUDGETS FOR FY 2026 AND FY 2027 FOR EACH YEAR SHOWING
 THE PURPOSE AND REASON FOR THE PROJECTS INCLUDED IN
 EACH FISCAL YEAR BUDGET.

RESPONSE:

A. Sewer reconstruction cost per mile has seen a steep increase over the past five years. Costs have increased from \$6.8 million to \$10 million per mile.

Additionally, PWD is increasing the mileage of sewer reconstruction by one mile per year from 13 miles in 2025 to 18 miles in 2030. The growth of the sewer reconstruction is expected to continue until 20 miles per year is reached.

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	FY2025	FY2026	FY2027
Sewer Reconstruction	\$95,500,000	\$140,000,000	\$150,000,000
Sewer Expansion	\$500,000	\$500,000	\$500,000
Total	\$96,000,000	\$140,500,000	\$150,500,000

1	C. See page 246 of the proposed FY 2026-2031 Capital Budget - capital-program
2	rec-FY2026.pdf
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4	RESPONSE PROVIDED BY: Philadelphia Water Department
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1	PA-XI-10.	REFER TO TABLE C-7: PROJECTED CAPITAL IMPROVEMENT
2		PROGRAM.
3		A. PLEASE PROVIDE THE SOURCE DOCUMENTS FOR THE 5.0%
4		INFLATION ESCALATION RATE.
5		B. PLEASE PROVIDE THE SUPPORTING CALCULATION FOR THE
6		CONTINGENCY ADJUSTMENT AMOUNT FOR FY 2026 AND FY 2027.
7		
8	RESPONSE:	
9		A. Please refer to PWD Statement 7: Schedule BV-2. Escalation factors are
10		further discussed in Section 1.4.6. Source data is provided in Appendix G:
11		Capital Cost Industry Indices. The 5.0% escalation factor is based upon the
12		rounded one-year average of all presented indices.
13		B. Contingency adjustment is based upon discussions with Water Department
14		Construction and Engineering staff and reflect the use of contingencies in
15		general capital budgeting approaches.
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18	RESPONSE	PROVIDED BY: Black & Veatch Management Consulting, LLC. And
19	Philadelphia '	Water Department
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1	PA-XI-11.	REFER TO TABLE C-7: PROJECTED CAPITAL IMPROVEMENT
2		PROGRAM. FOOTNOTE (C) DESCRIBES PROJECT EXPENSES (LINE 17)
3		AS THE ANNUAL DRAWDOWN OF CAPITAL BUDGET APPROPRIATIONS
4		BASED ON PROJECT DURATIONS AND ANNUAL ENCUMBRANCES.
5		A. DOES THIS MEAN THIS IS ACTUAL (OR EXPECTED) EXPENDITURES
6		FOR THE CAPITAL IMPROVEMENT PROGRAM FOR EACH FISCAL
7		YEAR?
8		B. ARE PROJECT EXPENSES DURING EACH FISCAL YEAR BASED ON
9		THE AMOUNT APPROPRIATED FOR THAT FISCAL YEAR OR DOES IT
10		INCORPORATE PREVIOUS YEARS.
11		C. PLEASE PROVIDE THE SUPPORTING WORKPAPERS SHOWING THE
12		DERIVATION OF THE PROJECT EXPENSES FOR FY 2026 AND FY
13		2027.
14	RESPONS	Е:
15	A. `	Yes. Project Expenses presented on Line 17 of Table C-7 represent expected actual
16		expenditures for the capital improvement program for each fiscal year.
17	В. 1	Project Expenses presented on Line 17 of Table C-7 are based that fiscal year and
18	1	prior appropriations.
19	C. S	See response attachment PA-XI-11.
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21	RESPONS	E PROVIDED BY: Black & Veatch Management Consulting, LLC.
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1	PA-XI-12.	REFER TO TABLE	E C-7: PROJECTED CAPITAL IMPROVEMENT
2		PROGRAM. PLEA	SE PROVIDE THE SUPPORTING WORKPAPERS
3		SHOWING THE D	ERIVATION OF THE ANTICIPATED ANNUAL PROJECT
4		ENCUMBRANCE	S FOR FY 2026 AND FY 2027.
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6	RESPONSE	:	
7	See re	esponse attachment Pa	A-XI-11.
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9	RESPONSE	PROVIDED BY:	Black & Veatch Management Consulting, LLC.
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1	PA-XI-13.	REFER TO TABLE O	C-8: PROJECTED FLOW OF FUNDS - CONSTRUCTION
2		FUND & DEBT RES	ERVE ACCOUNT. PLEASE EXPLAIN WHAT NET
3		FINANCING REQUI	RED LINE REPRESENTS AND HOW THE AMOUNTS
4		FOR FY 2026 AND F	FY 2027 WERE DETERMINED.
5			
6	RESPONSE	:	
7	The N	Net Cash Financing Requ	uired presented on Line 16 of Table C-8 is the Project
8	Exper	nses presented on Line 1	7 of Table C-7. See response to PA-XI-11.
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10	RESPONSE	PROVIDED BY:	Black & Veatch Management Consulting, LLC.
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1	PA-XI-14.	REFER TO TABLE C-8: PROJECTED FLOW OF FUNDS - CONSTRUCTION
2		FUND & DEBT RESERVE ACCOUNT. PLEASE PROVIDE THE
3		SUPPORTING DOCUMENTATION FOR THE ASSUMED 0.60 PERCENT
4		ISSUANCE COST AS SHOWN IN FOOTNOTE (B).
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6	RESPONSE	:
7	Please	e refer to response attachment PA-XI-14.
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9	RESPONSE	PROVIDED BY: Black & Veatch Management Consulting, LLC.
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- **PA-XI-15.** REFER TO TABLE C-9: SUMMARY OF EXISTING AND PROPOSED DEBT SERVICE.
 - A. PLEASE PROVIDE SUPPORT FOR THE 5.00% INTEREST RATE USED IN CALCULATION OF THE DEBT SERVICE FOR FISCAL YEAR 2027, PRESENTED IN FOOTNOTE (C).
 - B. PLEASE PROVIDE SUPPORT FOR DETERMINING THE DEBT SERVICE FOR FISCAL YEAR 2027 BASED ON INTEREST ONLY.

RESPONSE:

- A. The 5.00% interest rate used in the calculation of debt service for the bonds proposed to be issued in FY 2027 was based on PWD's recent Series 2024C Water & Wastewater Revenue Bond issuance and discussions with the Departments financial advisors, Acacia Financial Group, Inc. and PFM Financial Advisors LLC. Please refer to the Series 2024C series interest rates presented in PWD Exhibit 5 (page 2 of the pdf).
- B. The series revenue bonds are issued with annual debt service payments consisting of two six-month interest payments and an annual principal payment. In the fiscal year of issuance, the revenue bond debt service payment will consist of a six-month interest payment and a short coupon interest payment to align the future payments with other revenue bond payments to reduce the number of payments required to be made to the fiscal agent. The projected bonds are anticipated to be issued in July with a 4-month short coupon to align with other revenue bond debt service payments.

RESPONSE PROVIDED BY: Black & Veatch Management Consulting, LLC.

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1	PA-XI-16.	REFER TO PAGE 28 OF BLACK & VEATCH'S TESTIMONY. PLEASE	
2		PROVIDE THE SUPPORTING DOCUMENTATION FOR THE ANNUAL	
3		PROJECT EXPENSES BELOW. SHOW THE BASES FOR EACH OF THE	
4		ANTICIPATED PROGRAM-LEVEL PROJECT DURATIONS.	
5		A. BILLING SYSTEM – 5 YEARS.	
6		B. WATER CONVEYANCE – 4 YEARS.	
7		C. SEWER COLLECTION – 4 YEARS.	
8		D. FACILITIES IMPROVEMENTS – 6 YEARS.	
9			
10	RESPONSE:		
11	Please	refer to PWD Statement 7 Schedule BV-2: Cost of Service Report, Section 1.4.6.	
12	The pi	roject durations are based upon review and discussions regarding overall program	
13	level expenditures with Water Department staff. Durations are intended to reflect: (i)		
14	assumed planning and design phases; (ii) ramp-up activities and construction; and (iii)		
15	overal	l drawdown of construction funds over time.	
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17	RESPONSE	PROVIDED BY: Philadelphia Water Department and Black & Veatch	
18	Management	Consulting, LLC.	
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1	PA-XI-17. REFER TO PAGE 28 OF BLACK & VEATCH'S TESTIMONY. IF THE								
2	BILLING SYSTEM DURATION IS BASED ON 5 YEARS, WHY DOES								
3		TABLE C-7 SHOW	EXPENDITUE	RES OV	ER A DURA	ΓΙΟΝ	OF 3 Y	EAF	RS?
4									
5	RESPONSE:	:							
6	Lines	1 to 9 of Table C-7 pr	resent the budge	ted appr	opriations and	d are r	ot the p	roje	ct
7	expenditures.								
8									
9	RESPONSE	PROVIDED BY:	Philadelphia	Water	Department	and	Black	&	Veatch
10	Management	Consulting, LLC.							
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1	PA-XI-18.	REFER TO PAGE 30 OF BLACK & VEATCH'S TESTIMONY. THE PANEL			
2		STATES: "AS BOTH WIFIA AND PENNVEST WORK ON A			
3		REIMBURSEMENT BASIS, THE WATER DEPARTMENT INTENDS TO USE			
4		A COMBINATION OF AVAILABLE CASH AS WELL AS THE EXISTING			
5		COMMERCIAL PAPER ("CP") PROGRAM TO PROVIDE INTERIM			
6		FINANCING TO PAY CONTRACTOR INVOICES WHILE AWAITING			
7		REIMBURSEMENT FROM THE RESPECTIVE ENTITY. PLEASE EXPLAIN			
8		AND SHOW HOW THIS HAS BEEN REFLECTED IN THE COST OF			
9		SERVICE.			
10					
11	RESPONSE	:			
12	Comn	nercial paper is an interim funding mechanism used to pay contractor related			
13	invoices, while the Water Department awaits reimbursement from supporting entity (i.e.,				
14	PennVEST or WIFIA). Commercial paper is not a source of proceeds which can be				
15	utilize	ed to finance capital projects long-term.			
16					
17	The co	ost of service reflects the estimated carrying cost of the commercial paper program			
18	on an	annual basis. Commercial paper interest is treated as debt service and is considered			
19	parity	debt.			
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21	RESPONSE	PROVIDED BY: Philadelphia Water Department and Black & Veatch			
22	Management	Consulting, LLC.			
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1	PA-XI-19.	REFER TO TABLE	C-8: PROJECT	ΓED FLO	OW OF FUNI	DS - C	CONSTI	RUC	TION
2		FUND & DEBT RE	SERVE ACCO	UNT. Pl	LEASE EXPI	LAIN	WHY		
3	COMMERCIAL PAPER IS NOT REFLECTED ON THIS TABLE.								
4									
5	RESPONSE	:							
6	Please	e see response to PA-2	XI-18.						
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8	RESPONSE	PROVIDED BY:	Philadelphia	Water	Department	and	Black	&	Veatch
9	Management	Consulting, LLC.							
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1	PA-XI-20.	REFER TO TABLE C-9: SUMMARY OF EXISTING AND PROPOSED DEBT
2		SERVICE.
3		A. PLEASE EXPLAIN WHY THE COMMERCIAL PAPER AMOUNT IS
4		UNCHANGED FROM YEAR TO YEAR.
5		B. PLEASE PROVIDE THE MONTHLY COMMERCIAL PAPER BALANCES
6		FOR FY 2022 THROUGH THE MOST RECENT MONTH AVAILABLE IN
7		FY 2025.
8	RESPONSE:	
9		A. Commercial Paper interest payments are assumed to remain constant to support
10		interim payments to contractors while the Water Department awaits
11		reimbursement. See response to PA-XI-18.
12		B. Please see Response Attachment PA-XI-20.
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14	RESPONSE	PROVIDED BY: Philadelphia Water Department and Black & Veatch
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1	PA-XI-21.	REFER TO PAGE 31, LINE 19 OF BLACK & VEATCH'S TESTIMONY.
2		PLEASE PROVIDE THE ACTUAL MONTHLY INTEREST RATE THAT IS
3		APPLIED TO THE FUNDS ON WHICH PWD EARNS INTEREST INCOME
4		FOR FY 2022 THROUGH THE MOST RECENT MONTH AVAILABLE IN FY
5		2025.
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7	RESPONSE	:
8	Please	e refer to the response attachment PA-XI-21.
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10	RESPONSE	PROVIDED BY: Philadelphia Water Department
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