

**SCHUYLKILL TOWNSHIP
POLICE PENSION PLAN**

**ACTUARIAL INFORMATION
AS OF
JANUARY 1, 2021**



**1136 Hamilton Street, Suite 103
Allentown, PA 18101**

Dated: May 27, 2021

202(B)(1)
202(B)(5)

SCHUYLKILL TOWNSHIP POLICE PENSION PLAN

**NORMAL COST AND ADMINISTRATIVE EXPENSES
AS OF 1/1/2021**

A. NORMAL COST	
1. NORMAL COST OF PLAN BENEFITS	311,095
2. VALUATION COVERED PAYROLL	1,262,916
3. NORMAL COST AS A PERCENTAGE OF PAYROLL	24.63%
B. ADMINISTRATIVE EXPENSES	
1. TOTAL ADMINISTRATIVE COSTS FOR THE PRIOR YEAR	4,700
2. ESTIMATED ADMINISTRATIVE EXPENSES TO BE PAID FROM THE PLAN ASSETS FOR THE CURRENT PLAN YEAR	8,500
C. ESTIMATED ANNUAL BENEFIT PAYMENTS	
1. ACTUAL FOR THE PRIOR PLAN YEAR	121,693
2. ESTIMATED FOR THE CURRENT PLAN YEAR	271,965

SCHUYLKILL TOWNSHIP POLICE PENSION PLAN

ACTUARIAL LIABILITY AS OF 1/1/2021

A.	ACTUARIAL PRESENT VALUE OF ALL PROJECTED BENEFITS	
1.	ACTIVE MEMBERS*	
	RETIREMENT BENEFITS	7,964,124
	DISABILITY BENEFITS	549,007
	SURVIVOR BENEFITS	37,315
	REFUND OF MEMBER CONTRIBUTIONS WITH INTEREST	15,726
	VESTED BENEFITS	45,673
	OTHER:	0
	SUB-TOTAL	8,611,845
2.	INACTIVE MEMBERS	
	FORMER MEMBERS WITH VESTED DEFERRED BENEFITS	3,132,736
	SERVICE RETIREMENT BENEFITS	0
	DISABILITY RETIREMENT BENEFITS	0
	SURVIVING SPOUSE BENEFITS	0
	SURVIVING CHILDREN BENEFITS	0
	TOTAL MONIES ACCUMULATED IN DROP ACCOUNTS	174,799
	OTHER:	0
	SUB-TOTAL	3,307,535
3.	TOTAL	11,919,380
B.	ACTUARIAL PRESENT VALUE OF ALL FUTURE NORMAL COSTS	3,401,826
C.	ACTUARIAL LIABILITY =(A - B)	8,517,554

* THE AMOUNT OF ACCUMULATED MEMBER CONTRIBUTIONS WITHOUT ACCRUED INTEREST IS \$549,330 FOR ALL ACTIVE MEMBERS.

SCHUYLKILL TOWNSHIP POLICE PENSION PLAN

**UNFUNDED ACTUARIAL LIABILITY AT 1/1/2021
AND ACTUARIAL GAIN(LOSS) FOR YEAR ENDED 12/31/2020**

A. DETERMINATION OF ACTUAL UNFUNDED ACTUARIAL LIABILITY			
1.	ACTUARIAL LIABILITY		8,517,554
2.	ACTUARIAL VALUE OF ASSETS		9,899,956
3.	ACTUAL UNFUNDED ACTUARIAL LIABILITY = (1 - 2)		(1,382,402)
 B. DETERMINATION OF EXPECTED UNFUNDED ACTUARIAL LIABILITY			
		<u>AMOUNT</u>	<u>INTEREST</u>
1.	UNFUNDED LIABILITY FROM PREVIOUS VALUATION	35,012	(1,387)
2.	NORMAL COST SINCE THE LAST VALUATION	515,484	36,084
3.	TOTAL CONTRIBUTIONS SINCE THE LAST VALUATION	645,985	22,610
4.	SUB-TOTAL = (1 + 2 - 3)		(83,402)
5.	INCREASE (DECREASE) FOR ASSUMPTION CHANGE		1,251,053
6.	INCREASE (DECREASE) FOR PLAN AMENDMENT		0
7.	CONTRIBUTION ABOVE OR BELOW TOTAL FINANCIAL REQUIREMENT		(0)
8.	TOTAL EXPECTED UNFUNDED ACTUARIAL LIABILITY (4 + 5 +6 + 7)		1,167,651
 C. ACTUARIAL GAIN (LOSS) = (B -A)			
			2,550,053

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SCHUYLKILL TOWNSHIP POLICE PENSION PLAN

**ANALYSIS OF INCREASE (OR DECREASE) IN
UNFUNDED ACTUARIAL LIABILITY**

UNFUNDED
ACTUARIAL
LIABILITY
35,012

A. ACTUAL UNFUNDED FROM PRIOR VALUATION	
B. COMPONENTS OF INCREASE (OR DECREASE) DURING YEAR	
1. INCREASE FOR INTEREST	(1,387)
2. APPLICATION OF ACTUAL CONTRIBUTIONS	
A. NORMAL COST PLUS INTEREST	551,568
B. CONTRIBUTIONS PAID PLUS INTEREST	668,595 *
C. SUB-TOTAL (2.B - 2.A)	117,027
3. INCREASE (DECREASE) FOR ASSUMPTION CHANGE	1,251,053
4. INCREASE (DECREASE) FOR PLAN AMENDMENT	0
5. NET ACTUARIAL GAIN (LOSS) FOR YEAR	2,550,053
6. CONTRIBUTION ABOVE OR BELOW TOTAL FINANCIAL REQUIREMENT	(0)
7. CHANGE DURING YEAR (1 - 2 + 3 + 4 - 5 + 6)	(1,417,414)
C. ACTUAL UNFUNDED FOR CURRENT PLAN YEAR (A +B.7)	(1,382,402)

* TOTAL CONTRIBUTIONS SINCE THE LAST VALUATION WERE \$645,985.
PLUS ASSUMED INTEREST EARNED THEREOF OF \$22,610.

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SCHUYLKILL TOWNSHIP POLICE PENSION PLAN

**SCHEDULE OF AMORTIZATION BASES FOR MINIMUM CONTRIBUTIONS
AS OF 1/1/2021**

<u>ESTABLISHED</u>	<u>SOURCE OF BASE</u>	<u>ORIGINAL AMOUNT</u>	<u>CURRENT UNAMORTIZED BALANCE</u>	<u>CURRENT AMORTIZ. YEARS</u>	<u>AMORTIZ. CONTRIB.</u>	<u>DATE FULLY AMORTIZED</u>
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NONE

**SCHUYLKILL TOWNSHIP
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ACTUARIAL METHODS AND ASSUMPTIONS

A. ACTUARIAL METHODS

1. LIABILITIES - ALL PLAN BENEFITS ARE VALUED USING THE ENTRY AGE NORMAL COST VALUATION METHOD.
2. ASSETS - PLAN ASSETS ARE VALUED AT MARKET VALUE.

B. ACTUARIAL ASSUMPTIONS

1. ECONOMIC ASSUMPTIONS
 - a. INVESTMENT RETURN - 6.0% PER ANNUM, NET OF INVESTMENT EXPENSES.
 - b. SALARY INCREASES - 5.5% COMPOUNDED ANNUALLY.
 - c. COST OF LIVING - 3.0% PER ANNUM.
2. DEMOGRAPHIC ASSUMPTIONS
 - a. MORTALITY –

PRE-RETIREMENT MORTALITY: PUBS-2010 EMPLOYEE MORTALITY PROJECTED 5 YEARS PAST THE VALUATION DATE USING SCALE MP-2020.

POST-RETIREMENT MORTALITY: PUBS-2010 HEALTHY RETIREE MORTALITY PROJECTED 5 YEARS PAST THE VALUATION DATE USING SCALE MP-2020.

BENEFICIARIES MORTALITY: PUBS-2010 CONTINGENT SURVIVOR MORTALITY PROJECTED 5 YEARS PAST THE VALUATION DATE USING SCALE MP-2020.

DISABLED MORTALITY: PUBS-2010 DISABLED MORTALITY PROJECTED 5 YEARS PAST THE VALUATION DATE USING SCALE MP-2020.

- b. TERMINATION - SCALE T-1 OF THE PENSION ACTUARY HANDBOOK.
- c. DISABILITY - 1964 OASDI DISABILITY TABLE.

**SCHUYLKILL TOWNSHIP
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ACTUARIAL METHODS AND ASSUMPTIONS (Continued)

- d. RETIREMENT AGE - NORMAL RETIREMENT AGE, OR AGE ON VALUATION DATE IF GREATER.
- e. MARITAL STATUS - 100% OF ACTIVE MEMBERS ARE ASSUMED TO BE MARRIED. FEMALE SPOUSE IS ASSUMED TO BE 3 YEARS YOUNGER THAN MALE SPOUSE.
- f. FORM OF ANNUITY - JOINT & 50% SURVIVOR ANNUITY.