

Monterey Peninsula Water Management District

**GASB 75 OPEB Valuation Report Measured as of June 30, 2021
for Disclosures for the Fiscal Year Ending June 30, 2021**

September 23, 2021



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11750 Atwood Road
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(415) 801-5987

September 23, 2021

Suresh Prasad
Administrative Services Manager/CFO
Monterey Peninsula Water Management District
P.O. Box 85
Monterey, California 93942

Re: Monterey Peninsula Water Management District Retiree Health Benefits Plan GASB 75 OPEB Valuation Measured as of June 30, 2021

Dear Mr. Prasad:

At your request, we completed an actuarial valuation of the retiree health and welfare benefits measured as of June 30, 2021, for the Monterey Peninsula Water Management District. This is a roll-forward of the valuation produced for the fiscal year ending June 30, 2020. Please use the information in this report for your financial statements for the fiscal year ending June 30, 2021. This valuation is based on input from the District and from CalPERS, as well as our understanding of GASB Statement No. 75 "Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions" (GASB 75).

We greatly appreciate your business. If you have any questions, please feel free to call us at (415) 801-5987.

Best Regards,

Roger T. Burton, FSA, MAAA, FCA



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Purpose of the Report

Precision Actuarial prepared this report to meet employer financial accounting requirements under GASB Statement No. 75 "Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions", issued in June 2015, as amended by GASB Statement No. 85. This report includes information with respect to the obligation to provide future retiree health and welfare benefits for the fiscal year ending June 30, 2021.

Valuation Date: June 30, 2020

Measurement Date: June 30, 2021

Report Date: June 30, 2021

Application to Financials

This report provides liabilities and expenses for use in the District's 2021 financial reports.

The District should use the liabilities and expense measured as of June 30, 2021, for its financial statements for the year ending June 30, 2021.

Update procedures were used to roll the total OPEB liability forward to the measurement date.

Changes Since the Prior Valuation

This valuation is a roll-forward of the valuation produced for the prior fiscal year. We updated:

- Discount rate from 2.45% to 1.92%
- Benefit payments

Actuarial Certification

Our determinations reflect the provisions and methods prescribed by GASB 75. In preparing this report, we relied on employee census, plan design, premium rates, and administrative fees provided directly or indirectly by the plan sponsor, and demographic assumptions provided by CalPERS. CalPERS' actuaries set the premium rates using community rating. We did not attempt to verify that the community-rated premium rates represent the true cost of claims and administrative fees.

We based the results in this report on this information, along with the actuarial assumptions and methods used herein. In our opinion, the assumptions used represent reasonable expectations of anticipated plan experience. We reviewed the census information for reasonableness, but we did not audit it.

Actuarial computations under GASB 75 fulfill employer accounting and financial reporting requirements. The calculations are consistent with our understanding of GASB 75. Determinations for purposes other than meeting employer financial accounting requirements may be significantly different from the results in our report. Accordingly, additional determinations may be necessary for other purposes, such as judging benefit security at termination.

No third-party recipient of Precision Actuarial's work product should rely solely on Precision Actuarial's work product. Any third-party recipient should engage qualified professionals for advice appropriate to their own needs.

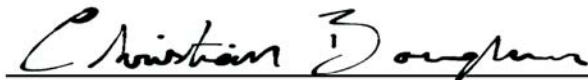
There is no relationship between Precision Actuarial, its owners, subcontractors, or staff; GovInvest; or the Monterey Peninsula Water Management District beyond the contractual services that we perform for the Monterey Peninsula Water Management District.

On the basis of the foregoing, we hereby certify that, to the best of our knowledge and belief, the report is complete and accurate and that we prepared it in accordance with generally recognized and accepted actuarial principles and practices which are consistent with the applicable "Actuarial Standards of Practice" and "Actuarial Compliance Guidelines" as promulgated by the American Academy of Actuaries.

The undersigneds are members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.



Roger T. Burton, FSA, MAAA, FCA
Chief Actuary



Christian M. Boughner, ASA, MAAA
Consulting Actuary

Executive Summary

Accounting Summary

A summary of the key valuation results follows.

	<i>Prior Report</i>	<i>Current Report</i>
Valuation Date:	June 30, 2020	June 30, 2020
Measurement Date:	June 30, 2020	June 30, 2021
Report Date:	June 30, 2020	June 30, 2021
Present Value of Future Benefits		
Active Employees	\$ 3,220,494	\$ 3,592,030
Retirees	+ 2,022,247	2,197,014
Total Present Value of Future Benefits	= 5,242,741	5,789,044
Total Present Value of Future Normal Costs	- 1,126,029	1,255,092
Total OPEB Liability	= \$ 4,116,712	\$ 4,533,952
OPEB Liability		
Active Employees	\$ 2,094,465	\$ 2,336,938
Retirees	+ 2,022,247	2,197,014
Total OPEB Liability	= \$ 4,116,712	\$ 4,533,952
Covered-Employee Payroll	\$ 2,577,148	\$ 2,250,506
Total OPEB Liability as a Percentage of Covered-Employee Payroll	159.74%	201.46%
	Measurement Period:	2019-2020
	Reporting Period:	2020-2021
Expense	\$ 237,425	\$ 208,344

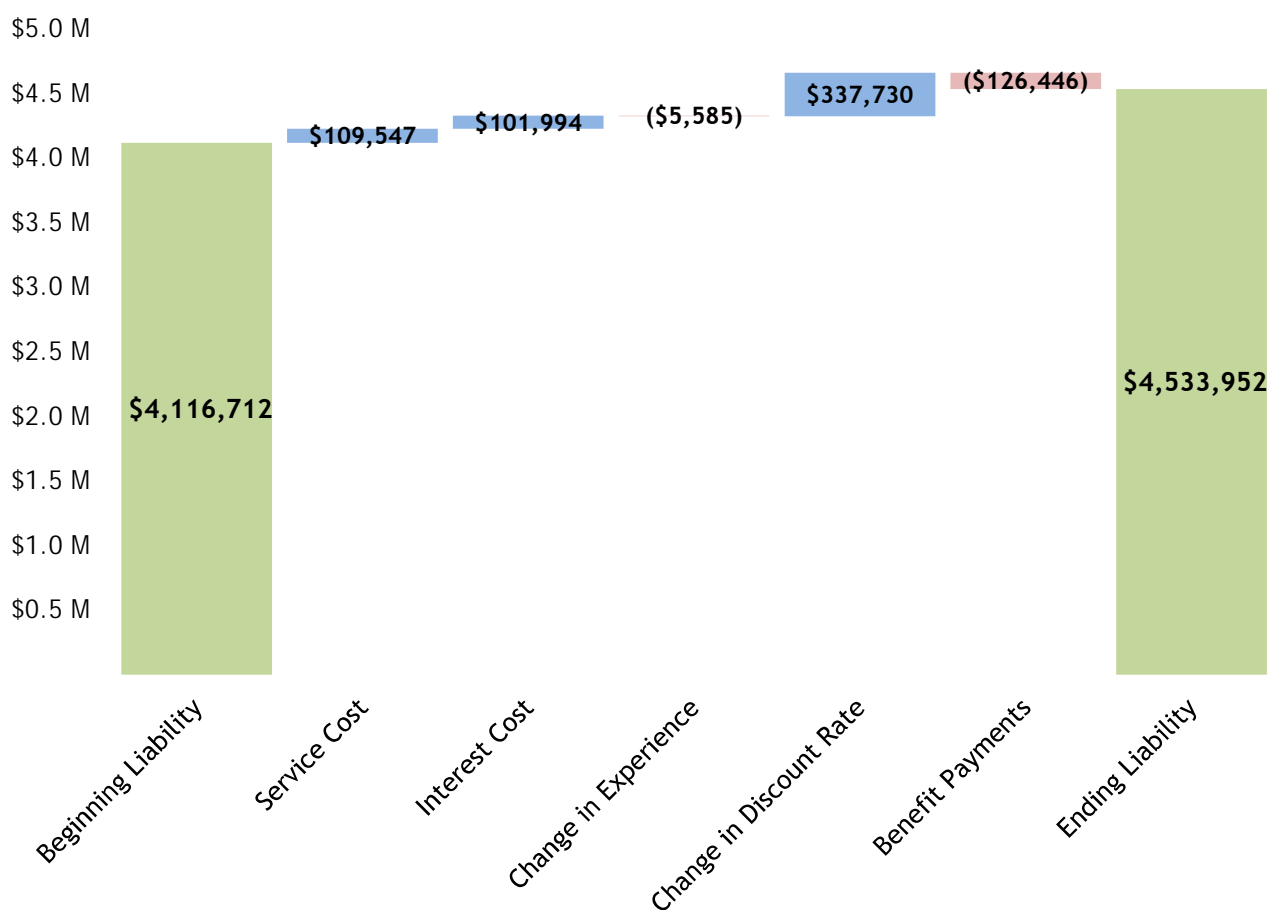
Executive Summary

Reconciliation of the Change in the Total OPEB Liability

A reconciliation of the changes to the Total OPEB Liability since the prior valuation report follow.

Total OPEB Liability as of Measurement Date June 30, 2020 / Report Date June 30, 2020	\$ 4,116,712
Service Cost	109,547
Interest Cost	101,994
Differences Between Expected and Actual Experience	(5,585)
Changes of Assumptions	
<i>Change in Discount Rate from 2.45% to 1.92%</i>	<i>337,730</i>
Total Changes of Assumptions	337,730
Benefit Payments	(126,446)
Total OPEB Liability as of Measurement Date June 30, 2021 / Report Date June 30, 2021	\$ 4,533,952

Reconciliation of the Change in the Total OPEB Liability



Accounting Information

Changes in the Total OPEB Liability

The funded status of the Plan as of the fiscal year-end, as well as other required disclosure information, follows.

	<i>Increase / (Decrease)</i>
	<u>Total OPEB Liability</u>
Balance as of Measurement Date June 30, 2020 / Report Date June 30, 2020	\$ 4,116,712
Changes for the year:	
Service Cost	109,547
Interest	101,994
Changes of Benefit Terms	-
Differences Between Expected and Actual Experience	(5,585)
Changes of Assumptions	337,730
Benefit Payments	(126,446)
Implicit Subsidy Credit	-
Other Changes	-
Net Changes	<u>417,240</u>
Balance as of Measurement Date June 30, 2021 / Report Date June 30, 2021	\$ <u>4,533,952</u>

Accounting Information

Development of Deferred Outflows and Inflows of Resources

Balances as of Measurement Date June 30, 2021 / Report Date June 30, 2021

Deferred Outflows and Inflows of Resources Arising from Differences Between Expected and Actual Experience

Measurement Date — June 30:	Experience Losses (a)	Experience Gains (b)	Amounts Recognized in Expense Through Measurement Date June 30, 2021 (c)	Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
2018	-	-	-	-	-
2019	-	-	-	-	-
2020	-	(411,131)	(130,518)	-	(280,613)
2021	-	(5,585)	(887)	-	(4,698)
Total				\$ -	\$ (285,311)

Deferred Outflows and Inflows of Resources Arising from Changes in Assumptions

Measurement Date — June 30:	Increase in Total Liability (a)	Decrease in Total Liability (b)	Amounts Recognized in Expense Through Measurement Date June 30, 2021 (c)	Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
2018	-	-	-	-	-
2019	249,320	-	118,725	130,595	-
2020	-	(190,471)	(60,468)	-	(130,003)
2021	337,730	-	53,608	284,122	-
Total				\$ 414,717	\$ (130,003)

Accounting Information

Expense and Deferred Outflows and Inflows

	Measurement Period: Reporting Period:	2019-2020 2019-2020	2020-2021 2020-2021
Expense			
Service Cost	\$	148,363	\$ 109,547
Interest on Total OPEB Liability		144,980	101,994
Changes of Benefit Terms		-	-
Recognized Differences Between Expected and Actual Experience		(65,259)	(66,146)
Recognized Changes of Assumptions		9,341	62,949
Other Miscellaneous (Income)/Expense		-	-
Total Expense	\$	237,425	\$ 208,344

	Report Year Ending June 30, 2021	
	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences Between Expected and Actual Experience	\$ -	\$ (285,311)
Changes of Assumptions	414,717	(130,003)
Contributions Subsequent to the Measurement Date	-	-
Total	\$ 414,717	\$ (415,314)

Amounts reported as deferred outflows of resources and deferred inflows of resources related to OPEB will be recognized in OPEB expense as follows:

	Report Year Ending June 30:	Amount
	2022	\$ (3,197)
	2023	(3,197)
	2024	(3,197)
	2025	(30,902)
	2026	24,077
	Remaining	15,819

Accounting Information

Impact on the Statement of Net Position

Impact on the Statement of Net Position

	Measurement Date: Report Date:	June 30, 2020 June 30, 2020	June 30, 2021 June 30, 2021	Change During Period
Total OPEB Liability	\$	4,116,712	\$ 4,533,952	\$ 417,240
Fiduciary Net Position		-	-	-
Net OPEB Liability / (Asset)		<u>4,116,712</u>	<u>4,533,952</u>	<u>\$ 417,240</u>
Deferred (Outflows) / Inflows Due To:				
Differences between Expected and Actual Experience		345,872	285,311	(60,561)
Changes of Assumptions (Contributions Subsequent to the Measurement Date)		(9,933)	(284,714)	(274,781)
		-	-	-
Net Deferred (Outflows) / Inflows		<u>335,939</u>	<u>597</u>	<u>(335,342)</u>
Impact on the Statement of Net Position		<u><u>4,452,651</u></u>	<u><u>4,534,549</u></u>	<u><u>81,898</u></u>

Change in Net Position During Fiscal Year

	Measurement Date: Report Date:	June 30, 2021 June 30, 2021
Impact on the Statement of Net Position, Fiscal Year Ending June 30, 2021		4,452,651
OPEB Expense / (Income) (Employer Contributions During Fiscal Year)		208,344
		(126,446)
Impact on the Statement of Net Position for the Fiscal Year Ending June 30, 2021		<u><u>4,534,549</u></u>

OPEB Expense

	Measurement Date: Report Date:	June 30, 2021 June 30, 2021
Deterioration / (Improvement) in Net Position		81,898
Employer Contributions During the Fiscal Year		126,446
OPEB Expense / (Income) for the Fiscal Year Ending June 30, 2021		<u><u>208,344</u></u>

Accounting Information

Reconciliation of Expense

	Total OPEB Liability	Deferred (Inflows)	Deferred Outflows	Net Deferrals	Total OPEB Liability plus Net Deferrals	Annual Expense
Balance as of:						
Measurement Date June 30, 2020 /						
Report Date June 30, 2020	\$ (4,116,712)	\$ (506,109)	\$ 170,170	\$ (335,939)	\$ (4,452,651)	
Service Cost	(109,547)					\$ 109,547
Interest on Total OPEB Liability	(101,994)					101,994
Effect of Changes of Benefit Terms	-					-
Effect of Liability Gains or Losses	5,585	(5,585)	-	(5,585)		
Effect of Assumption Changes or Inputs	(337,730)	-	337,730	337,730		
Benefit Payments	126,446				126,446	
Implicit Subsidy Credit	-				-	
Recognition of Liability Gains or Losses		66,146	-	66,146		(66,146)
Recognition of Assumption Changes or Inputs		30,234	(93,183)	(62,949)		62,949
Contributions Subsequent to the Measurement Date			-	-	-	
Annual Expense					(208,344)	\$ 208,344
Balance as of:						
Measurement Date June 30, 2021 /						
Report Date June 30, 2021	\$ (4,533,952)	\$ (415,314)	\$ 414,717	\$ (597)	\$ (4,534,549)	

Accounting Information

Sample Journal Entries

Suggested Journal Entries for the Report Year ending June 30, 2021

Beginning Balance	<u>Debit (Outflow)</u>	<u>Credit (Inflow)</u>
Net OPEB Liability/Asset	\$ -	\$ 4,116,712
Differences between Expected and Actual Experience	-	345,872
Changes of Assumptions	170,170	160,237
Contributions Subsequent to the Measurement Date	-	-
Impact on Statement of Net Position	-	4,452,651
Ending Balance	<u>Debit (Outflow)</u>	<u>Credit (Inflow)</u>
Net OPEB Liability/Asset	\$ -	\$ 4,533,952
Differences between Expected and Actual Experience	-	285,311
Changes of Assumptions	414,717	130,003
Contributions Subsequent to the Measurement Date	-	-
Impact on Statement of Net Position	-	4,534,549
OPEB-Expense Journal Entries	<u>Debit</u>	<u>Credit</u>
Net OPEB Liability/Asset	\$ -	\$ 417,240
Differences between Expected and Actual Experience	Deferred Outflows -	-
	Deferred Inflows 60,561	-
Changes of Assumptions	Deferred Outflows 244,547	-
	Deferred Inflows 30,234	-
Contributions Subsequent to the Measurement Date	Deferred Outflows -	-
Change in Net OPEB Liability/Asset from Contributions	-	-
OPEB Expense/Credit	81,898	-
Total	<u>417,240</u>	<u>417,240</u>
Change to the Impact on the Statement of Net Position	-	81,898

Accounting Information

Sample Journal Entries

Suggested Journal Entries for the Report Year ending June 30, 2021

Journal Entries – Deferred Outflows

	Debit	Credit
Net OPEB Liability/Asset	\$ -	\$ -
Contributions Subsequent to the Measurement Date: Fiscal Year 2019-2020	-	-
Contributions Subsequent to the Measurement Date: Fiscal Year 2020-2021	-	-
Contributions Expense	-	-

Journal Entries – Benefits Paid Outside of the Trust¹

	Debit	Credit
OPEB Expense	\$ 126,446	\$ -
Employer Contributions for Retiree Benefits During the Fiscal Year	-	126,446

Journal Entries – Implicit Subsidy²

	Debit	Credit
OPEB Expense	\$ -	\$ -
Premium Expense During the Fiscal Year	-	-

¹ The entries here assume that when cash is used to pay benefits, that the trust does not reimburse, an account called "Employer Contributions for Retiree Benefits During the Fiscal Year" was debited (increased). These entries reassign the benefit payments to the OPEB Expense. If the OPEB Expense account was originally debited, then these entries are unnecessary.

² These entries assume that when premiums are paid for active employees, an account called "Premium Expense During the Fiscal Year" is debited (increased). This entry reverses the portion of the premium payments that represent implicit subsidies, recorded as a retiree liability, and assigns that value to the OPEB Expense.

Accounting Information

Interest on Total OPEB Liability

	Amount for	Portion of	Interest Rate	Interest on the Total
	Period	Period		OPEB Liability
Interest on Total OPEB Liability	(a)	(b)	(c)	(d) = (a) × (b) × (c)
Beginning Total OPEB Liability	\$ 4,116,712	100%	2.45%	\$ 100,859
Service Cost	109,547	100%	2.45%	2,684
Benefit Payments	(126,446)	50%	2.45%	(1,549)
Implicit Subsidy	-	50%	2.45%	-
Total Interest on Total OPEB Liability				\$ 101,994

Accounting Information

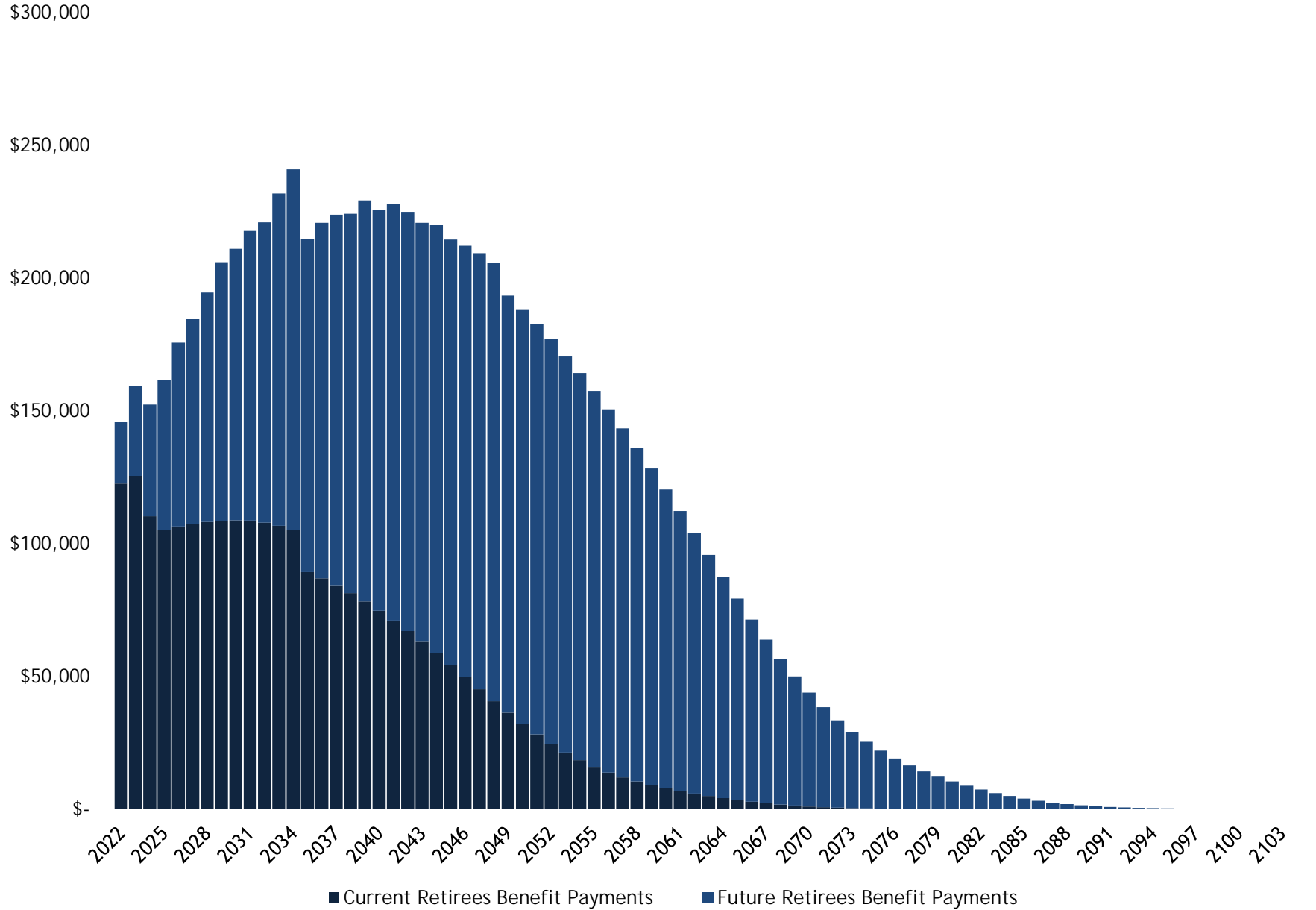
Projection of Benefit Payments

Projected benefit payments for current participants follow. "Future Retirees" are employees currently working, but projected to retire and receive benefits. The projections do not include benefits for employees hired in the future.

Measurement Period Ending	Projected Retiree Benefit Payments			Implicit Subsidy			Grand Total
June 30:	Current Retirees	Future Retirees	Total	Current Retirees	Future Retirees	Total	
2022	\$ 122,601	\$ 23,133	\$ 145,734	\$ -	\$ -	\$ -	\$ 145,734
2023	125,466	33,842	159,308	-	-	-	159,308
2024	110,277	42,092	152,370	-	-	-	152,370
2025	105,242	56,221	161,463	-	-	-	161,463
2026	106,417	69,239	175,656	-	-	-	175,656
2027	107,381	77,249	184,630	-	-	-	184,630
2028	108,107	86,437	194,544	-	-	-	194,544
2029	108,578	97,436	206,014	-	-	-	206,014
2030	108,777	102,225	211,002	-	-	-	211,002
2031	108,691	109,130	217,821	-	-	-	217,821
2032	107,857	113,176	221,033	-	-	-	221,033
2033	106,705	125,183	231,888	-	-	-	231,888
2034	105,241	135,720	240,961	-	-	-	240,961
2035	89,203	125,467	214,670	-	-	-	214,670
2036	86,891	133,999	220,890	-	-	-	220,890
2037	84,276	139,603	223,879	-	-	-	223,879
2038	81,365	142,926	224,290	-	-	-	224,290
2039	78,171	151,138	229,309	-	-	-	229,309
2040	74,712	151,076	225,787	-	-	-	225,787
2041	71,004	156,960	227,964	-	-	-	227,964
2042	67,070	157,894	224,964	-	-	-	224,964
2043	62,937	157,874	220,810	-	-	-	220,810
2044	58,632	161,476	220,108	-	-	-	220,108
2045	54,195	160,380	214,575	-	-	-	214,575
2046	49,670	162,519	212,189	-	-	-	212,189
2047	45,118	164,351	209,470	-	-	-	209,470
↓	↓	↓	↓	↓	↓	↓	↓

Accounting Information

Projected Benefit Payments for Current Participants



Accounting Information

Schedule of Deferred Outflows and Inflows of Resources

Schedule of Deferred Outflows and Inflows of Resources

	Measurement Period	Base Amount	Amount Previously Recognized	Recognition Period	Remaining Period	Increase/(Decrease) in Expense: Measurement / Report Years Ending June 30:						Remaining
						2021	2022	2023	2024	2025	2026	
Differences Between Expected and Actual Experience	2017-2018	-	-	6.3	3.3	-	-	-	-	-	-	-
	2018-2019	-	-	6.3	4.3	-	-	-	-	-	-	-
	2019-2020	(411,131)	(65,259)	6.3	5.3	(65,259)	(65,259)	(65,259)	(65,259)	(65,259)	(19,577)	-
	2020-2021	(5,585)	-	6.3	6.3	(887)	(887)	(887)	(887)	(887)	(887)	(263)
Changes of Assumptions	2017-2018	-	-	6.3	3.3	-	-	-	-	-	-	-
	2018-2019	249,320	79,150	6.3	4.3	39,575	39,575	39,575	39,575	11,870	-	-
	2019-2020	(190,471)	(30,234)	6.3	5.3	(30,234)	(30,234)	(30,234)	(30,234)	(30,234)	(9,067)	-
	2020-2021	337,730	-	6.3	6.3	53,608	53,608	53,608	53,608	53,608	53,608	16,082

Summary of Deferred Outflows and Inflows of Resources

Measurement Period: July 1, 2020 - June 30, 2021

Fiscal Reporting Period: July 1, 2020 - June 30, 2021

	Measurement/Report Years Ending June 30:						Remaining
	2021	2022	2023	2024	2025	2026	
Differences Between Expected and Actual Experience	\$ (66,146)	\$ (66,146)	\$ (66,146)	\$ (66,146)	\$ (66,146)	\$ (20,464)	\$ (263)
Changes of Assumptions	62,949	62,949	62,949	62,949	35,244	44,541	16,082
Total	\$ (3,197)	\$ (3,197)	\$ (3,197)	\$ (3,197)	\$ (30,902)	\$ 24,077	\$ 15,819

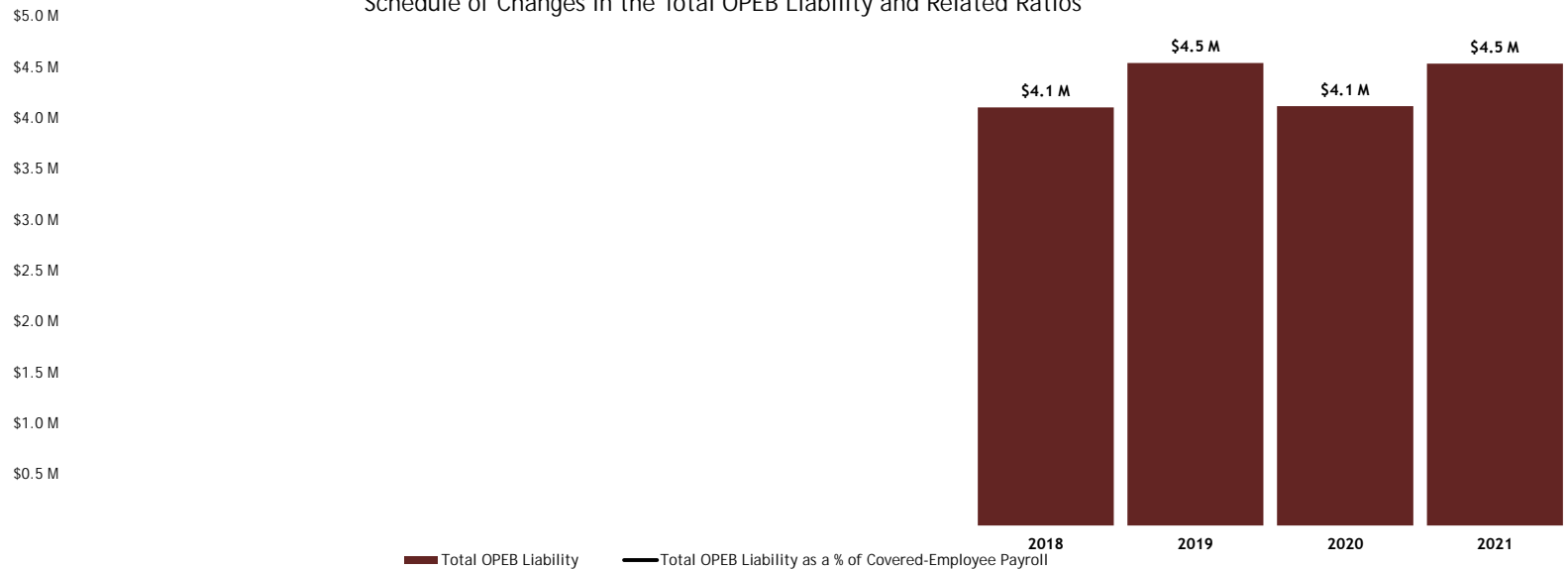
Accounting Information

Schedule of Changes in the Total OPEB Liability and Related Ratios

GASB 75 requires a disclosure of the changes in the Total OPEB Liability for the last ten fiscal years, or for as many years as are available.

Measurement Date (June 30):	2018	2019	2020	2021
Report Date (June 30):	2018	2019	2020	2021
Total OPEB Liability				
Service Cost	\$ 127,662	\$ 131,173	\$ 148,363	\$ 109,547
Interest	140,378	155,268	144,980	101,994
Changes of Benefit Terms	-	-	-	-
Differences Between Expected and Actual Experience	-	-	(411,131)	(5,585)
Changes of Assumptions	-	249,320	(190,471)	337,730
Benefit Payments	(92,380)	(98,542)	(117,237)	(126,446)
Implicit Subsidy Credit	-	-	-	-
Net Change in Total OPEB Liability	175,660	437,219	(425,496)	417,240
Total OPEB Liability – Beginning	3,929,329	4,104,989	4,542,208	4,116,712
Total OPEB Liability – Ending	\$ 4,104,989	\$ 4,542,208	\$ 4,116,712	\$ 4,533,952
Covered-Employee Payroll	\$ 2,441,044	\$ 2,508,173	\$ 2,577,148	\$ 2,250,506
District's Total OPEB Liability as a Percentage of Covered-Employee Payroll	168.2%	181.1%	159.7%	201.5%

Schedule of Changes in the Total OPEB Liability and Related Ratios



Notes to schedule: the District adopted GASB 75 for the fiscal year ending June 30, 2018.

Accounting Information

Draft Notes to the Financial Statements

A draft of the required notes to the District's financial statements, based on the requirements of GASB 75 and our understanding of the District's retiree health plan, follows.

Notes to the Financial Statements for the Year Ended June 30, 2021

Summary of Significant Accounting Policies

Other Postemployment Benefits Other Than Pensions (OPEB)

For purposes of measuring the total OPEB liability, deferred outflows of resources and deferred inflows of resources related to OPEB, and OPEB expense information of the District's Retiree Health Benefits Plan (the Plan) have been determined on the same basis as they are reported by the Plan. For this purpose, the Plan recognizes benefit payments when due and payable in accordance with the benefit terms.

Note X – Other Post-Employment Benefits (OPEB)

Plan Description

The District administers a single-employer defined-benefit post-employment healthcare plan (the Plan). Dependents are eligible to enroll, and benefits continue to surviving spouses for one year following the member's death.

Benefits Provided

Retirees are eligible for medical benefits if they retire at age 50 or older. A retiree who was hired before July 1, 2013 and retires with 15 or more years of service is eligible to receive a payment of \$1,256 per month for the fiscal year ending June 30, 2021. The amount of this payment increases 3% annually. All other retirees are eligible to receive \$540 per month with no service requirements. There are no disability benefits.

Employees Covered by Benefit Terms

At June 30, 2020 (the census date), the benefit terms covered the following employees:

<u>Category</u>	<u>Count</u>
Inactive employees, spouses, or beneficiaries currently receiving benefit payments:	21
Inactive employees entitled to but not yet receiving benefit payments:	0
Active employees:	22
Total	43

Accounting Information

Draft Notes to the Financial Statements

Contributions

The District pays benefits as they come due.

Contribution rate:	Benefits Due
Reporting period contributions:	\$126,446 (Includes implicit subsidy credit.)

Financial Report

The District issues a stand-alone financial report that is available to the public. The report is available at: <https://www.mpwmd.net/who-we-are/finance/budgets/>

Total OPEB Liability

The District's total OPEB liability was valued as of June 30, 2020, and was used to calculate the total OPEB liability measured as of June 30, 2021.

Actuarial Assumptions

The total OPEB liability in the June 30, 2021 actuarial valuation was determined using the following actuarial assumptions, applied to all periods included in the measurement, unless otherwise specified:

Measurement Date:	June 30, 2020	June 30, 2021
Discount Rate	2.45%	1.92%
Inflation	0.75%	5.50%
Healthcare Cost Trend Rates		
Pre-Medicare	7.00%	6.50% *
Medicare	4.00%	4.00% *
Salary Increases	2.750%	2.750% **
Mortality Rates	Based on CalPERS tables.	

- Projections of the sharing of benefit-related costs are based on an established pattern of practice.
- Experience studies come from the CalPERS Pension Assumption Model, revised May 14, 2018.
- Inactive employees (retirees) pay the cost of benefits in excess of the District's contribution.
- There were no ad hoc postemployment benefit changes (including ad hoc COLAs) to the plan.
- There were no changes between the measurement date and the report date that are expected to have a significant effect on the net OPEB liability.

Discount Rate

The discount rate used to measure the total OPEB liability is 1.92%. The District's OPEB Plan is an unfunded plan, therefore the discount rate was set to the rate of tax-exempt, high-quality 20-year municipal bonds, as of the valuation date.

Trust Assets

There are no assets accumulated in a trust that meets the criteria in paragraph 4 of GASB 75 to pay related benefits.

*Trending down to 3.84% over 52 years. Applies to calendar years.

**Additional merit-based increases based on CalPERS merit salary increase tables.

Accounting Information

Draft Notes to the Financial Statements

<i>Changes in the Total OPEB Liability</i>	<i>Increase/Decrease</i>
	<u>Total OPEB Liability</u>
Balance as of Report Date June 30, 2020	\$ 4,116,712
Changes for the Year:	
Service Cost	109,547
Interest	101,994
Changes of Benefit Terms	-
Differences Between Expected and Actual Experience	(5,585)
Changes of Assumptions	337,730
Benefit Payments	(126,446)
Implicit Subsidy Credit	-
Other Miscellaneous Income/(Expense)	-
Net Changes	<u>417,240</u>
Balance as of Report Date June 30, 2021	<u>\$ 4,533,952</u>

Sensitivity of the Liability to Changes in the Discount Rate and Healthcare Cost Trend Rate

Sensitivity of the total OPEB liability to changes in the discount rate. The total OPEB liability of the District, as well as what the District's total OPEB liability would be if it were calculated using a discount rate that is one percentage point lower (0.92%) or one percentage point higher (2.92%) follows:

	1% Decrease	Discount Rate	1% Increase
	0.92%	1.92%	2.92%
Total OPEB Liability (Asset)	\$ 5,244,999	\$ 4,533,952	\$ 3,954,585
Increase (Decrease)	711,047		(579,367)
% Change	15.7%		-12.8%

Sensitivity of the total OPEB liability to changes in the healthcare cost trend rates. The healthcare trend for this valuation started at 6.50% and decreased to 3.84% over 52 years. The total OPEB liability of the District, as well as what the District's total OPEB liability would be if it were calculated using healthcare cost trend rates that are one percentage point lower (5.50%) or one percentage point higher (7.50%) than current healthcare cost trend rates follows:

	1% Decrease	Trend Rate	1% Increase
	5.50%	6.50%	7.50%
Total OPEB Liability (Asset)	\$ 3,887,813	\$ 4,533,952	\$ 5,344,414
Increase (Decrease)	(646,139)		810,462
% Change	-14.3%		17.9%

Accounting Information

Draft Notes to the Financial Statements

OPEB Expense and Deferred Inflows and Outflows of Resources Related to OPEB

For the report year ended June 30, 2021, the District recognized an OPEB expense of \$208,344. The District reported deferred outflows of resources and deferred inflows of resources related to OPEB from the following sources:

	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences Between Actual and Expected Experience	\$ -	\$ (285,311)
Changes of Assumptions	414,717	(130,003)
Contributions Subsequent to the Measurement Date	-	-
Total	\$ 414,717	\$ (415,314)

Amounts reported as deferred outflows of resources and deferred inflows of resources related to OPEB will be recognized in OPEB expense as follows:

Report Year Ending June 30:	Amount
2022	\$ (3,197)
2023	(3,197)
2024	(3,197)
2025	(30,902)
2026	24,077
Remaining	15,819

<i>Current Liability</i>	Amount
Current OPEB Liability	\$ 144,349
Non-Current OPEB Liability	4,389,603
Total OPEB Liability	\$ 4,533,952

Expected Average Remaining Service Lives (EARSL)

The effects on the total OPEB liability of (1) changes of economic and demographic assumptions or of other inputs and (2) differences between expected and actual experience are required to be included in OPEB expense in a systematic and rational manner over a closed period equal to the average of the expected remaining service lives of all employees that are provided with benefits through the OPEB plan (active employees and inactive employees), beginning in the current period. The expected average remaining service lives (EARSL) for the current period follows.

EARSL: 6.3 years

Basis of Valuation

Substantive Plan

A summary of the substantive plan used as the basis of the valuation follows.

Tier 1 – Hired Before 7/1/2013 or Classic Member under PEPR	
Less than 15 Years of Service	
Eligibility	On attainment of age 50.
Duration of coverage	Retiree's lifetime.
Dependent coverage	Eligible to enroll but no employer contribution. Surviving spouse benefits available for one year after retiree death, if applicable.
Medical plan choices	Retiree will be enrolled in the Laborers Northern California Trust Special Plan.
Core Benefit	District contributes up to \$540. This amount is fixed.
15 or More Years of Service	
Eligibility	On attainment of age 50 and 15 years of Service.
Duration of coverage	Retiree's lifetime.
Dependent coverage	Eligible to enroll but no employer contribution. Surviving spouse benefits available for one year after retiree death, if applicable.
Medical plan choices	Retiree will be enrolled in the Laborers Northern California Trust Special Plan.
Core Benefit	District contributes up to \$1,255.54 per month for fiscal-year end 6/30/2020. This cap increases by 3% on July 1st of each successive year.

Tier 2 – Hired After 1/1/2013 or New PEPR Member Under PEPR	
Eligibility	On attainment of age 50.
Duration of coverage	Retiree's lifetime.
Dependent coverage	Eligible to enroll but no employer contribution. Surviving spouse benefits available for one year after retiree death, if applicable.
Medical plan choices	Retiree will be enrolled in the Laborers Northern California Trust Special Plan.
Core Benefit	District contributes up to \$540. This amount is fixed.

Basis of Valuation

Participant Summary

Census Date: June 30, 2020

Age and service determined as of the census date.

Active Participants												
Age	Years of Service										Total	
	< 1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40+		
< 25												
25-29	1	1										2
30-34		3										3
35-39	1			1								2
40-44		1			1							2
45-49			2	1								3
50-54		1			1	1		2				5
55-59							2					2
60-64			1						2			3
65-69												
70+												
Total	2	6	3	2	2	1	2	2	2	2		22

Average Active Participant Age: 46.4

Average Years of Service: 14.4

Inactive Participants			
Age	Retiree	Spouse	Total
< 50			
50-54	1		1
55-59			
60-64	4	3	7
65-69	3	1	4
70-74	3	1	4
75-79	1	1	2
80-84	1	2	3
85-89			
90+			
Total	13	8	21

Average Inactive Participant Age: 68.8

Basis of Valuation

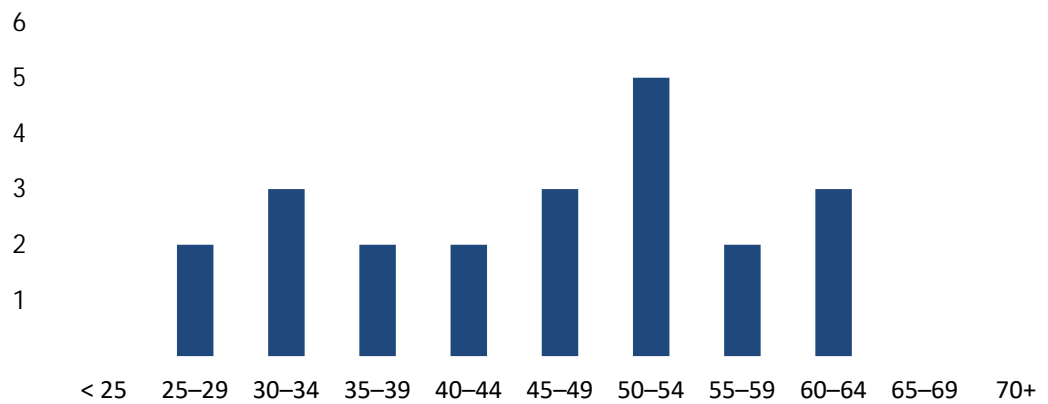
Participant Summary Charts

Census Date: June 30, 2020

Age and service determined as of the census date.

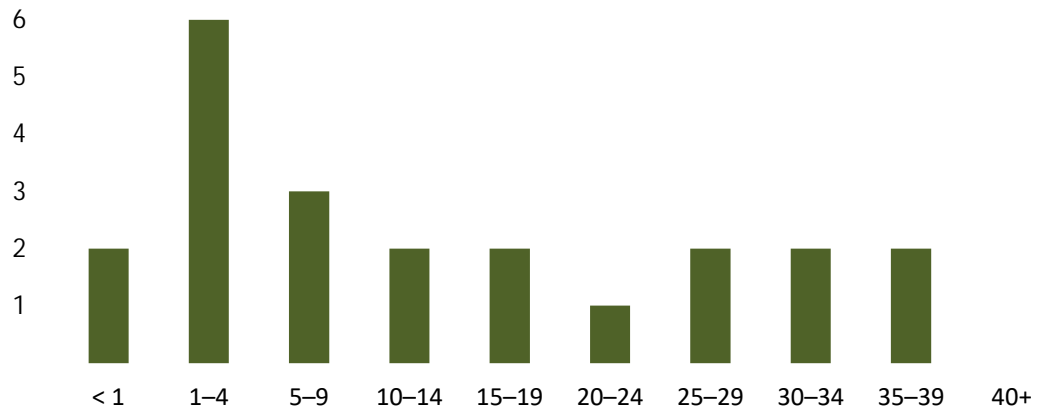
Actives by Age Bracket

Average Employee Age: 46.4



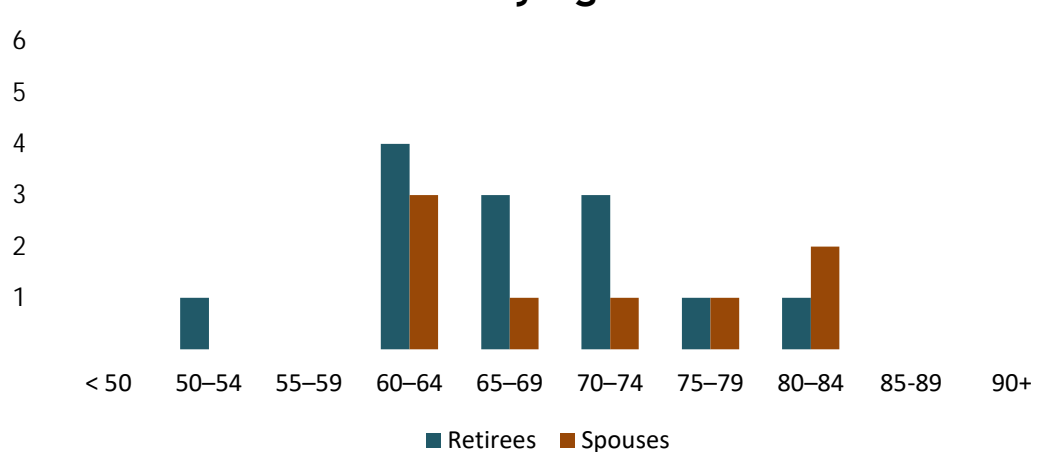
Actives by Years of Service

Average Years of Service: 14.4



Inactives by Age Bracket

Average Inactive Age: 68.8



Basis of Valuation

Actuarial Assumptions

A summary of the actuarial assumptions used for this valuation follows. We considered the reasonableness of each assumption independently based on its own merits, consistent with each other assumption, and the combined impact of all assumptions.

Assumption	Rates
Actuarial Cost Method	Entry-Age Normal, Level Percentage of Salary
Valuation Date	June 30, 2020
Measurement Date	June 30, 2021
Report Date	June 30, 2021
Discount Rate	The discount rate used to measure the total OPEB liability is 1.92%. The District's OPEB Plan is an unfunded plan, therefore the discount rate was set to the rate of tax-exempt, high-quality 20-year municipal bonds, as of the valuation date.
Mortality	Same as CalPERS. See appendix.
Termination Rates	Same as CalPERS. See appendix. Also known as "turnover".
Disability	Same as CalPERS. See appendix.
Retirement	Same as CalPERS. See appendix.
Annual Per Capita Claims Cost	Not applicable.
Average Per Capita Cost for Implicit Subsidy Calculation	Not applicable.
Aging or Morbidity Factors	Based on actual CalPERS HMO and PPO population data.
Participant Contributions	Based on service at retirement and employee group.
Salary Increases	2.750% The salary increase is used to determine the growth in the aggregate payroll. Individual Salary Increases: 2018 CalPERS Merit Salary Increases.
Inflation Rate	5.50%

Basis of Valuation

Actuarial Assumptions

Assumption	Rates
Marital Status	Current Retirees: Actual spouse coverage is used. Future retirees: 70% assumed to be married.
Spouse Gender	Assumes spouse of opposite gender for current and future retirees.
Spouse Age Difference	Actual spouse age is used for current retirees. Assumes males are three years older than females for future retirees.
Participation	Current Retirees: Assume current elections continue until decrement. Future Retiree election assumptions summarized below:

Hire Dates	Service Retirement*
Pre-2013, 15+ Years of Service	90%
All Others	75%

*Assumes all covered spouses elect survivor spouse benefits.

PEMHCA Not Applicable.

Premiums Premiums used to develop aged claims

Category	Employee	Two Party
Pre-Medicare Plans	\$ 13,584	\$ 27,168
Medicare Plans	4,374	8,748

Trend Rates Medical long-term trends from Society of Actuaries "Long Term Healthcare Cost Trends Model v2019_b" using baseline assumptions. Applied to both claims and premiums.

Calendar Year	Pre-Medicare Trend	Medicare Trend	PEMHCA Trend
2020	7.00%	4.00%	0.00%
2021	6.50%	4.00%	0.00%
2022	6.00%	4.00%	0.00%
2023	5.50%	4.00%	0.00%
2024	5.20%	4.00%	0.00%
2025	5.20%	4.00%	0.00%
2026	5.20%	4.00%	0.00%
2027	5.19%	4.00%	0.00%
2028-2072
2073+	3.84%	3.84%	0.00%

This section includes a brief summary of GASB 75, as well as definitions of some of the key terminology used in this report.

About GASB 75

In General. In June 2015 the Governmental Accounting Standards Board released GASB 75, “Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions”. GASB 75 replaced GASB 45 for fiscal years beginning after June 15, 2017, for employers that sponsor OPEB plans. The provisions in GASB 75 are similar to the provisions of GASB 68 for pensions.

Accounting. GASB 75 requires a liability known as the Net OPEB Liability (NOL). The employer recognizes the NOL on its balance sheet. The employer also recognizes an OPEB expense in the income statement. GASB 45 recorded the Unfunded Accrued Actuarial Liability (UAAL) in the notes to the financial statement, whereas GASB 75 records the NOL, which is very similar to the UAAL with just a few technical differences, on the balance sheet.

Financial Statement Impact (Employers). One of the biggest changes to the financial statements of governmental employers that provide OPEB is the reporting of the OPEB liability on the face of the statements rather than in the footnotes. Governments that do not provide OPEB through a trust are required to recognize the entire OPEB liability in the financial statements. For governments that provide OPEB through an OPEB plan that is administered through a trust, the government’s OPEB liability is recognized net of the amount of the OPEB plan’s fiduciary net position.

Changes to the Measurement of the Total OPEB Liability. Measurement of the OPEB liability includes discounting future benefit payments for current and former employees and their beneficiaries to their present value and allocating the present value over past and future periods of the employee service (total OPEB liability), less the amount of the OPEB plan’s fiduciary net position. The calculation continues to include employee-related events, such as projected salary increases and projected years of service, if they affect the amount of OPEB payments employees will receive, as well as provisions for automatic cost-of-living adjustments (COLAs) and other automatic benefits. Additionally, ad hoc COLAs and other ad hoc benefit changes, which are made at the discretion of the government, are included in projections as well, if they routinely recur.

GASB 75 requires governments to discount projected OPEB payments to their present value. Under the new standard, governments discount the projected OPEB payments to be made in each year and the amount of plan assets (if a government administers the OPEB through a trust) available for providing those benefits to current active and inactive employees and their beneficiaries. Similar to the pension standards, the discount rate used is based on whether the plan assets are projected to be sufficient to make future payments. If the plan assets are sufficient, governments discount future payments using the long-term expected rate of return. If projected plan assets are insufficient to make all future payments to current and inactive employees and their beneficiaries, or if there are no plan assets held in trust, the discount rate is based on a high-quality 20-year tax-exempt general obligation municipal bond yield or index rate. “High-quality” is defined as being rated AA or higher (or an equivalent rating).

Cost Method. The Entry Age Normal Cost method must be used.

About GASB 75 (continued)

Factors that affect a government's OPEB liability, such as actual earnings on plan investments when the OPEB plan is administered as a trust, employee compensation changes, interest on the outstanding OPEB liability, contributions from employees and employers, and actual demographic and economic changes that are not in line with assumptions made in the actuarial calculations, are considered when determining the government's OPEB expense. A government's annual OPEB expense is calculated with consideration for factors affecting the OPEB liability within the reporting period. Several causes of changes in OPEB liability are immediately factored into the calculation of OPEB expense for the period, such as benefits earned each year, interest on the total OPEB liability, changes in benefit terms, and projected earnings on plan investments, if administered through a trust.

Governments are required to recognize deferred outflows of resources or deferred inflows of resources and then introduce into the expense calculation, systematically and rationally over the average remaining years of employment (active employees and inactive employees, including retirees), the effect on the total OPEB liability of differences between assumptions and actual experience.

Key Terminology

Actuarially Determined Contribution	A target or recommended contribution to a defined benefit OPEB plan for the reporting period, determined in conformity with Actuarial Standards of Practice based on the most recent measurement available when the contribution for the reporting period was adopted.
Actuarial Present Value of Projected Benefit Payments	Projected benefit payments discounted to reflect the expected effects of the time value (present value) of money and the probabilities of payment.
Agent Employer	An employer whose employees are provided with OPEB through an agent multiple-employer defined-benefit OPEB plan.
Closed Period	A specific number of years that is counted from one date, which declines to zero with the passage of time. For example, if the recognition period initially is five years on a closed basis, four years remain after the first year, three years after the second year, and so forth until no years remain.
Contributions	Additions to an OPEB plan's fiduciary net position for amounts from employers, non-employer contributing entities, or employees.
Dates and Periods	
• Census Date	The date of the census. It is usually the same as the Valuation Date .
• Measurement Date	The date on which assets are measured. The liabilities are rolled forward to this date from the Valuation Date , should it differ, using actuarial roll-forward techniques.
• Measurement Period	The year ending on the Measurement Date .
• Report Date	The date on which the amounts are reported in the financial statements. It is the same as the fiscal year-end. It may be up to one year ahead of the Measurement Date, with no roll-forward of liabilities or assets required.
• Reporting Period	The year ending on the Report Date . It is the same as the fiscal year.
• Valuation Date	The date on which the liabilities are valued.
Deferred Inflows and Outflows of Resources	The portion of the changes in the Net OPEB Liability that are not recognized in the current pension expense and are recognized in later periods. The changes deferred include differences between expected and actual experience, changes in assumptions, and differences between expected and actual earnings on OPEB plan investments.

Key Terminology (continued)

Defined-Benefit OPEB	OPEB for which the benefits that the employee will receive at or after separation from employment are defined by the benefit terms. The OPEB may be stated as (a) a specified dollar amount (b) an amount that is calculated based on one or more factors such as age, years of service, and compensation, or (c) a type or level of coverage such as prescription drug coverage or a percentage of health insurance premiums. OPEB that does not have all of the terms of defined contribution OPEB is classified as defined-benefit OPEB.
Discount Rate	A yield or index rate for 20-year, tax-exempt general-obligation municipal bonds with an average rating of AA/Aa or higher (or equivalent quality on another scale), to the extent that the conditions in (a) are not met.
Fiduciary Net Position	The market value of assets as of the Measurement Date .
Implicit Subsidy	The implicit subsidy arises when an employer allows a retiree and the retiree's dependents to continue on the plans for active employees, and pay the active-employee premiums. Retirees are not paying the true cost of their benefits because they have higher costs than active employees, and therefore are partially subsidized by the active employees. Once a retiree reaches Medicare eligibility, the rates are set for Medicare retirees separately, and are set to be sufficient to cover the true costs of the Medicare retirees. Thus, there is no implicit subsidy for Medicare retirees.
Net OPEB Liability	The Total OPEB Liability minus the Fiduciary Net Position .
Normal Cost	See Service Cost .
Other Postemployment Benefits (OPEB)	Benefits (such as death benefits, life insurance, disability, and long-term care) that are paid in the period after employment and that are provided separately from a pension plan, as well as healthcare benefits paid in the period after employment, regardless of the manner in which they are provided. OPEB does not include termination benefits or termination payment for sick leave.
Projected Benefit Payments	All benefits estimated to be payable through OPEB plan to current active and inactive employees as a result of their past service and their expected future
Service Cost	The portions of the actuarial present value of projected benefit payments that are attributed to valuation years. Also called Normal Cost .
Substantive Plan	The plan terms as understood by the employer and the plan members at the time of the valuation, including only changes to plan terms that have been made and communicated to employees.
Total OPEB Liability	The liability of employers and non-employer contributing entities to employees for benefits provided through a defined-benefit OPEB plan that is administered through a trust that meets the criteria in paragraph 4 of GASB 75.

Appendix

Decrement Tables

The valuation used the following decrement tables from the CalPERS OPEB Assumption Model, revised May 14, 2018:

Mortality	Source Table
Miscellaneous Employees	Mort and Disb Rates_PA Misc
Disability Rates	
Miscellaneous Employees	Mort and Disb Rates_PA Misc
Terminated Refund Rates	
Miscellaneous Employees	Terminated Refund Rates_Misc
Terminated Vested Rates	
Miscellaneous Employees	Terminated Vested Rates_PA Misc
Salary Scale Rates	
Miscellaneous Employees	Salary Scale Rates_PA Misc
Service Retirement Rates	
Miscellaneous Employees	
• 2.0% at 55	Rx PA Misc 2% @ 55
• 2.0% at 62	Rx PA Misc 2% @ 62

Appendix

Sample Mortality and Disability Rates

Attained Age	Public Agency Miscellaneous													
	Pre-Retirement Mortality				Post-Retirement Mortality						Disability			
	Male Assumptions		Female Assumptions		Male Assumptions			Female Assumptions			Male Assumptions		Female Assumptions	
	Non Industrial Death	Industrial Death	Non Industrial Death	Industrial Death	Healthy Recipients	Non Industrially Disabled	Industrially Disabled	Healthy Recipients	Non Industrially Disabled	Industrially Disabled	Non Industrial Disability	Industrial Disability	Non Industrial Disability	Industrial Disability
1	0.00000	0.00000	0.00000	0.00000	0.00016	0.00016	0.00003	0.00003	0.00003	0.00003	0.00000	0.00000	0.00000	0.00000
5	0.00000	0.00000	0.00000	0.00000	0.00016	0.00016	0.00003	0.00003	0.00003	0.00003	0.00000	0.00000	0.00000	0.00000
10	0.00000	0.00000	0.00000	0.00000	0.00016	0.00016	0.00003	0.00003	0.00003	0.00003	0.00000	0.00000	0.00000	0.00000
15	0.00016	0.00000	0.00003	0.00000	0.00016	0.00016	0.00003	0.00003	0.00003	0.00003	0.00017	0.00000	0.00010	0.00000
20	0.00022	0.00000	0.00007	0.00000	0.00022	0.00022	0.00004	0.00007	0.00007	0.00007	0.00017	0.00000	0.00010	0.00000
25	0.00029	0.00000	0.00011	0.00000	0.00029	0.00029	0.00006	0.00011	0.00011	0.00006	0.00017	0.00000	0.00010	0.00000
30	0.00038	0.00000	0.00016	0.00000	0.00038	0.00038	0.00007	0.00016	0.00016	0.00007	0.00019	0.00000	0.00024	0.00000
35	0.00049	0.00000	0.00027	0.00000	0.00049	0.00049	0.00009	0.00027	0.00027	0.00009	0.00039	0.00000	0.00071	0.00000
40	0.00064	0.00000	0.00037	0.00000	0.00064	0.00064	0.00010	0.00037	0.00037	0.00010	0.00102	0.00000	0.00135	0.00000
45	0.00080	0.00000	0.00054	0.00000	0.00080	0.00080	0.00012	0.00054	0.00054	0.00012	0.00151	0.00000	0.00188	0.00000
50	0.00116	0.00000	0.00079	0.00000	0.00372	0.01183	0.00372	0.00346	0.01083	0.00346	0.00158	0.00000	0.00199	0.00000
55	0.00172	0.00000	0.00120	0.00000	0.00437	0.01613	0.00437	0.00410	0.01178	0.00410	0.00158	0.00000	0.00149	0.00000
60	0.00255	0.00000	0.00166	0.00000	0.00671	0.02166	0.00671	0.00476	0.01404	0.00476	0.00153	0.00000	0.00105	0.00000
65	0.00363	0.00000	0.00233	0.00000	0.00928	0.02733	0.01113	0.00637	0.01757	0.00765	0.00128	0.00000	0.00088	0.00000
70	0.00623	0.00000	0.00388	0.00000	0.01339	0.03358	0.01607	0.00926	0.02184	0.01112	0.00102	0.00000	0.00084	0.00000
75	0.01057	0.00000	0.00623	0.00000	0.02316	0.04277	0.02779	0.01635	0.02969	0.01962	0.00102	0.00000	0.00088	0.00000
80	0.01659	0.00000	0.00939	0.00000	0.03977	0.06272	0.04773	0.03007	0.04641	0.03609	0.00102	0.00000	0.00088	0.00000
85	0.00000	0.00000	0.00000	0.00000	0.07122	0.09793	0.08547	0.05418	0.07847	0.06501	0.00000	0.00000	0.00000	0.00000
90	0.00000	0.00000	0.00000	0.00000	0.13044	0.14616	0.14348	0.10089	0.13220	0.11098	0.00000	0.00000	0.00000	0.00000
95	0.00000	0.00000	0.00000	0.00000	0.21658	0.21658	0.21658	0.17698	0.21015	0.17698	0.00000	0.00000	0.00000	0.00000
100	0.00000	0.00000	0.00000	0.00000	0.32222	0.32222	0.32222	0.28151	0.32226	0.28151	0.00000	0.00000	0.00000	0.00000
105	0.00000	0.00000	0.00000	0.00000	0.46691	0.46691	0.46691	0.43491	0.43491	0.43491	0.00000	0.00000	0.00000	0.00000
110	0.00000	0.00000	0.00000	0.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	0.00000	0.00000	0.00000	0.00000
115	0.00000	0.00000	0.00000	0.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	0.00000	0.00000	0.00000	0.00000
120	0.00000	0.00000	0.00000	0.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	0.00000	0.00000	0.00000	0.00000

Notes:

- 1) Pre-Retirement and Post-Retirement mortality rates include 20 years of projected on-going mortality improvement using Scale BB published by the Society of Actuaries.
- 2) Miscellaneous Plans usually have Industrial Death rates set to zero unless the agency has specifically contracted for Industrial Death benefits. If so, each Non-Industrial Death rate shown above will be split into two components: 99% will become the Non-Industrial Death rate and 1% will become the Industrial Death rate.
- 3) The Miscellaneous Non-Industrial Disability rates are used for Local Prosecutors.
- 4) Normally, Industrial Disability rates are zero for miscellaneous plans unless the agency has specifically contracted for Industrial Disability benefits. If so, each miscellaneous non-industrial disability rate will be split into two components: 50% will become the Non-Industrial Disability rate and 50% will become the Industrial Disability rate.

Appendix

Sample Termination Rates

		Sample Terminated Refund Rates Public Agency Miscellaneous								
Entry Ages										
Service	15	20	25	30	35	40	45	50	55	59
0	0.18120	0.17420	0.16740	0.16060	0.15370	0.14680	0.14000	0.13320	0.12620	0.12080
5	0.02320	0.02120	0.01930	0.01740	0.01550	0.01360	0.01160	0.00970	0.00780	0.00620
10	0.01550	0.01380	0.01210	0.01040	0.00880	0.00710	0.00550	0.00380	0.00210	0.00080
15	0.00700	0.00600	0.00510	0.00420	0.00320	0.00230	0.00140	0.00040	0.00020	0.00020
20	0.00450	0.00370	0.00290	0.00210	0.00130	0.00050	0.00010	0.00010	0.00010	0.00010
25	0.00240	0.00170	0.00110	0.00050	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010
30	0.00110	0.00050	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00000	0.00000
35	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00000	0.00000	0.00000
40	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00000	0.00000	0.00000	0.00000
45	0.00010	0.00010	0.00010	0.00010	0.00010	0.00000	0.00000	0.00000	0.00000	0.00000
50	0.00010	0.00010	0.00010	0.00010	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

		Sample Terminated Vested Rates Public Agency Miscellaneous								
Entry Ages										
Service	15	20	25	30	35	40	45	50	55	59
0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
5	0.07140	0.06560	0.05970	0.05370	0.04770	0.04180	0.00000	0.00000	0.00000	0.00000
10	0.05940	0.05300	0.04660	0.04030	0.03390	0.00000	0.00000	0.00000	0.00000	0.00000
15	0.05110	0.04430	0.03730	0.03050	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	0.04050	0.03330	0.02610	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
25	0.02880	0.02120	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
30	0.01500	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
35	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
40	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
45	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
50	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

When a member is eligible to retire, the termination with vested benefits probability is set to zero

Appendix

Sample Salary Scale Rates

Service	Entry Ages										Public Agency Miscellaneous			
	15	20	25	30	35	40	45	50	55	60	65	70	75	79
0	0.1220	0.1220	0.1220	0.1160	0.1090	0.1020	0.0950	0.0950	0.0950	0.0950	0.0950	0.0950	0.0950	0.0950
5	0.0640	0.0640	0.0640	0.0600	0.0550	0.0520	0.0480	0.0480	0.0480	0.0480	0.0480	0.0480	0.0480	0.0480
10	0.0460	0.0460	0.0460	0.0430	0.0410	0.0390	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370
15	0.0420	0.0420	0.0420	0.0400	0.0380	0.0360	0.0340	0.0340	0.0340	0.0340	0.0340	0.0340	0.0340	0.0340
20	0.0390	0.0390	0.0390	0.0380	0.0360	0.0340	0.0330	0.0330	0.0330	0.0330	0.0330	0.0330	0.0330	0.0330
25	0.0370	0.0370	0.0370	0.0360	0.0340	0.0330	0.0310	0.0310	0.0310	0.0310	0.0310	0.0310	0.0310	0.0310
30	0.0350	0.0350	0.0350	0.0340	0.0330	0.0320	0.0300	0.0300	0.0300	0.0300	0.0300	0.0300	0.0300	0.0300
35	0.0350	0.0350	0.0350	0.0340	0.0330	0.0320	0.0300	0.0300	0.0300	0.0300	0.0300	0.0300	0.0300	0.0300
40	0.0350	0.0350	0.0350	0.0340	0.0330	0.0320	0.0300	0.0300	0.0300	0.0300	0.0300	0.0300	0.0300	0.0300
45	0.0350	0.0350	0.0350	0.0340	0.0330	0.0320	0.0300	0.0300	0.0300	0.0300	0.0300	0.0300	0.0300	0.0300
50	0.0350	0.0350	0.0350	0.0340	0.0330	0.0320	0.0300	0.0300	0.0300	0.0300	0.0300	0.0300	0.0300	0.0300

Appendix

Matrix of Sample Service Retirement Assumption Rates

Service	Attained Ages				Public Agency Miscellaneous 2% @ 55			
	50	55	60	65	70	75	79	
0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
5	0.00800	0.04000	0.05800	0.14500	0.15000	1.00000	1.00000	
10	0.01300	0.04000	0.07500	0.17300	0.17100	1.00000	1.00000	
15	0.01800	0.05600	0.09300	0.20100	0.19200	1.00000	1.00000	
20	0.02100	0.09300	0.12600	0.23300	0.23900	1.00000	1.00000	
25	0.02200	0.10900	0.14300	0.26600	0.30400	1.00000	1.00000	
30	0.03300	0.15400	0.16900	0.28900	0.33000	1.00000	1.00000	
35	0.05000	0.21000	0.20700	0.31600	0.33000	1.00000	1.00000	
40	0.00000	0.24000	0.28000	0.33000	0.33000	1.00000	1.00000	
45	0.00000	0.00000	0.28000	0.33000	0.33000	1.00000	1.00000	
50	0.00000	0.00000	0.00000	0.33000	0.33000	1.00000	1.00000	

Service	Attained Ages				Public Agency Miscellaneous 2% @ 62			
	50	55	60	65	70	75	79	
0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
5	0.00000	0.01000	0.03000	0.11000	0.12000	1.00000	1.00000	
10	0.00000	0.02000	0.05000	0.14000	0.16000	1.00000	1.00000	
15	0.00000	0.03000	0.07000	0.17000	0.19000	1.00000	1.00000	
20	0.00000	0.04000	0.09000	0.21000	0.23000	1.00000	1.00000	
25	0.00000	0.06000	0.11000	0.24000	0.27000	1.00000	1.00000	
30	0.00000	0.10000	0.14000	0.30000	0.33000	1.00000	1.00000	
35	0.00000	0.15000	0.18000	0.35000	0.39000	1.00000	1.00000	
40	0.00000	0.18000	0.20000	0.36000	0.40000	1.00000	1.00000	
45	0.00000	0.00000	0.20000	0.36000	0.40000	1.00000	1.00000	
50	0.00000	0.00000	0.00000	1.00000	1.00000	1.00000	1.00000	