

Montgomery County Government Post-Employment Medical Benefits

GASB 74 Actuarial Information for the Year Ending June 30, 2022



Submitted by:
Kevin Binder, FSA
Senior Consulting Actuary
(443) 573-3906
kbinder@boltonusa.com

Tom Vicente, FSA, EA
Senior Consulting Actuary
(443)573-3918
tvicente@boltonusa.com



September 13, 2022

Kay Russell Deerin Group Insurance Fund Manager Office of Human Resources 101 Monroe Street, 12th Floor, Room 1209 Rockville, MD 20850

Dear Kay:

The following report contains the GASB 74 plan accounting actuarial information for the post-employment benefits (OPEB) to be included with the Montgomery County Government's financial statements. The GASB 74 reporting is for fiscal year ending in 2022. The measurement date as required by GASB 74 is June 30, 2022.

Methodology, Reliance and Certification

This report is prepared for the Montgomery County Government (the Government). The report contains the actuarial information to be included with the Government's financial statements (the Government's fiscal year end date) as required by GASB 74. This information has been prepared for use in the financial statements of the Government. This information is not intended for, nor should it be used for, any additional purposes.

The total OPEB liability is based on July 1, 2021 valuation data rolled forward to June 30, 2022. The methods, assumptions, participant data, and plan provisions are detailed in the FYE 2022 and FYE 2023 Actuarial Valuation report dated September 30, 2021 except as noted below.

- The discount rate used to determine the liabilities under GASB 74 was increased to 6.20% because, under the GASB 74 methodology, it was determined that the fund will remain solvent until 2060. Benefit payments for the Plan were discounted based on an index rate for 20-year tax exempt general obligation municipal bonds with an average rating of AA/Aa or higher (3.69%) for years when the projected benefit payouts are expected to be unfunded and 7.50% for years when the projected benefit payouts are expected to be funded. Please refer to Appendix B for the derivation of the discount rate.
- The calculations are based on the Entry Age Normal actuarial cost method as required by GASB 74.



Ms. Kay Russell Deerin September 13, 2022 Page 2

Methodology, Reliance and Certification

Because the net impact of COVID-19 on health costs and changes in turnover and retirement behavior is not possible to estimate at this time, we have made no adjustments to any of the assumptions selected before the COVID-19 pandemic.

The included calculations assume that the members and the Government will continue to make all required actuarially determined contributions. Based on that assumption, the plan's fiduciary net position is expected to be available to make all future benefit payments until 2060.

The long-term nominal expected rate of return on OPEB plan investments was determined using a building-block method where return expectations are established for each asset class. The building-block approach uses the current underlying fundamentals, not historical returns. For example, spread and the risk-free rate are used for fixed income; and dividends, earnings growth and valuation are used for equity. These return expectations are weighted based on asset/target amounts. The investment returns by investment class and the plan's asset investment policy were provided by the Government.

Future medical care cost increase rates are unpredictable and could be volatile. They will depend upon the economy, future health care delivery systems and emerging technologies. The trend rate selected is based on an economic model developed by a health care economist for the Society of Actuaries. Future medical trend increases could vary significantly from the model. Model inputs will be updated periodically based on the best estimate of the economy at that time. The sensitivity of results to a 1% increase or decrease in assumed trend is shown in this report.

This is a deterministic valuation in that it is based on a single set of assumptions. This set of assumptions is one possible basis for our calculations. Other assumptions may be equally valid. The future is uncertain, and the plan's actual experience will differ from the assumptions; the differences may be significant or material because the results are very sensitive to the assumptions made and, in some cases, to the interaction between the assumptions. We may consider that some factors are not material to the valuation of the plan and may not provide a specific assumption for those factors. We may have used other assumptions in the past. We will likely consider changes in assumptions at a future date.

The Government is responsible for selecting the plan's funding policy and assumptions. The policies, methods and assumptions used in this valuation are those that have been so prescribed and are described in the FYE 2022 and FYE 2023 Actuarial Valuation report dated September 30, 2021. The Government is solely responsible for communicating to Bolton Partners, Inc. any changes required thereto.

This report is based on plan provisions, census data, and claims data submitted by the Government and their providers. We have relied on this information for purposes of preparing this report but have not performed an audit. The accuracy of the results presented in this report is dependent upon the accuracy and completeness of the underlying information. The plan sponsor is solely responsible for the validity and completeness of this information.

The Government is solely responsible for selecting the plan's investment policies, asset allocations and individual investments. Bolton, Inc.'s actuaries have not provided any investment advice to the Government.



Ms. Kay Russell Deerin September 13, 2022 Page 3

Methodology, Reliance and Certification

The information in this report was prepared for the internal use of the Government, the plan and their auditors in connection with our actuarial valuations of the OPEB plan as required by GASB 75.

This report may not be used for any other purpose; Bolton Partners, Inc. is not responsible for the consequences of any unauthorized use or the reliance on this information by any other party.

We make every effort to ensure that our calculations are accurately performed. We reserve the right to correct any potential errors by amending the results of this report or by including the corrections in a future valuation report.

This report provides certain financial calculations for use by the auditor. These values have been computed in accordance with our understanding of generally accepted actuarial principles and practices and fairly reflect the actuarial position of the plan. The various actuarial assumptions and methods which have been used are, in our opinion, appropriate for the purposes of this report.

The report is conditioned on the assumption of an ongoing plan and is not meant to present the actuarial position of the plan in the case of plan termination. Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions, changes in economic or demographic assumptions, increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status), and changes in plan provisions or applicable law.

The report was completed using both proprietary and third-party models (including software and tools). We have tested these models to ensure they are used for their intended purposes, within their known limitations, and without any known material inconsistencies unless otherwise stated.

Bolton Partners is completely independent of Montgomery County Government, its programs, activities, its officers, and key personnel. Bolton Partners, and anyone closely associated with us, does not have any relationship which would impair or appear to impair our objectivity on this assignment.

The undersigned credentialed actuary meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein. The FYE 2022 and FYE 2023 Actuarial Valuation report dated September 30, 2021contains information that is integral to the results contained herein and a copy may be provided upon request.

Respectfully submitted,

71.8 16

Kevin Binder, FSA, MAAA, EA

Thomas Vicente, FSA, MAAA, EA



Thomas Vicante



Change in Net OPEB Liability

	Total OPEB Liability (a)	Plan Fiduciary Net Position (b)	Net OPEB Liability (a) - (b)
Balance as of June 30, 2021 for FYE 2021	\$1,661,544,310	\$818,822,037	\$842,722,273
Changes for the Year			
Service Cost	57,865,960		57,865,960
Interest	85,811,013		85,811,013
Changes of Benefit Terms	0		0
Experience Losses/(Gains)	(8,212,818)		(8,212,818)
Trust Contribution - Employer		69,423,628	(69,423,628)
Net Investment Income		(79,633,451)	79,633,451
Changes in Assumptions	(177,130,712)		(177,130,712)
Benefit Payments (net of retiree contributions)	(64,458,628)	(64,458,628)	0
Administrative Expense		(360,885)	360,885
Net Changes	(106,125,185)	(75,029,336)	(31,095,849)
Balance as of June 30, 2022 for FYE 2022	\$1,555,419,125	\$743,792,701	\$811,626,424
	_	_	
Funded status		47.82%	



Sensitivity of Total and Net OPEB Liability - Required by GASB 74

The following table presents Montgomery County Government's Total and Net OPEB liability. We also present the Total and Net OPEB liability if it is calculated using a discount rate that is 1 percentage point lower or 1 percentage point higher.

Discount Rate	1% Decrease 5.20%	Discount Rate 6.20%	1% Increase 7.20%
Total OPEB Liability	\$1,749,493,140	\$1,555,419,125	\$1,394,299,135
Net OPEB Liability/(Asset)	\$1,005,700,439	\$811,626,424	\$650,506,434

The following table presents Montgomery County Government's Total and Net OPEB liability. We also present the Total and Net OPEB liability if it is calculated using a health care cost trend rate that is 1 percentage point lower or 1 percentage point higher.

Ultimate Trend	1% Decrease 2.68%	Medical Trend 3.68%	1% Increase 4.68%
Total OPEB Liability	\$1,372,328,740	\$1,555,419,125	\$1,781,541,931
Net OPEB Liability/(Asset)	\$628,536,039	\$811,626,424	\$1,037,749,230



Schedule of Changes in the Total Liability and Related Ratios - Required by GASB 74

Changes in Employer's Net OPEB Liability and Related Ratios

Last 10 Fiscal Years

Information for FYE 2017 and earlier is not available

Disclosure for Fiscal Year Ending: Measurement Date:	2022 6/30/2022	2021 6/30/2021	2020 6/30/2020	2019 6/30/2019	2018 6/30/2018	2017 6/30/2017	2016 6/30/2016	2015 6/30/2015	2014 6/30/2014	2013 6/30/2013
Total OPEB liability										
Service Cost	\$ 57,865,960	\$ 56,485,667	\$ 50,603,665	\$ 70,518,206	\$ 65,155,686	\$ 73,126,875	\$ -	\$ -	\$ -	\$ -
Interest Cost	85,811,013	90,817,670	84,115,630	111,580,719	117,685,710	116,270,504	-	-	-	-
Changes in Benefit Terms		(21,037,342)			-		-	-	-	-
Differences Between Expected and Actual Experience	(8,212,818)	(117,357,835)	76,398,324	(351,021,508)	(1,877,264)	(22,113,781)	-	-	-	-
Changes of Assumptions	(177,130,712)	78,158,490	69,533,390	(191,917,617)	(268,604,422)	(261,363,550)	-		-	-
Benefit Payments	(64,458,628)	(57,588,316)	(55,773,063)	(55,114,260)	(50,319,668)	(56,938,631)				
Net Change in Total OPEB Liability	(106,125,185)	29,478,334	224,877,946	(415,954,460)	(137,959,958)	(151,018,583)	-	-	-	-
Total OPEB liability - Beginning of Year	1,661,544,310	1,632,065,976	1,407,188,030	1,823,142,490	1,961,102,448	2,112,121,031				
Total OPEB Liability - End of Year	1,555,419,125	1,661,544,310	1,632,065,976	1,407,188,030	1,823,142,490	1,961,102,448				

Plan Fiduciary Net Position

Last 10 Fiscal Years

Information for FYE 2017 and earlier is not available

Disclosure for Fiscal Year Ending:	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013	
Measurement Date:	6/30/2022	6/30/2021	6/30/2020	6/30/2019	6/30/2018	6/30/2017	6/30/2016	6/30/2015	6/30/2014	6/30/2013	
Contributions - Employer	\$ 69,423,628	\$ 93,686,185	\$ 88,939,381	\$ 77,208,188	\$ 63,725,810	\$ 122,466,187	\$ -	\$ -	\$ -	\$	
Net Investment Income	(79,633,451)	162,514,922	33,971,605	39,922,676	40,066,004	42,759,085	-	-	-		
Benefit Payments (net of retiree contributions)	(64,458,628)	(57,588,316)	(55,773,063)	(55,114,260)	(50,319,668)	(56,938,631)	-	-	-		
Administrative Expense Net Change in Fiduciary Net Position Fiduciary Net Position - Beginning of Year Fiduciary Net Position - End of Year	(360,885) (75,029,336) 818,822,037 743,792,701	(343,120) 198,269,671 620,552,366 818,822,037	(341,413) 66,796,510 553,755,856 620,552,366	(339,355) 61,677,249 492,078,607 553,755,856	(276,553) 53,195,593 438,883,014 492,078,607	(4,292,538) 103,994,103 334,888,911 438,883,014					
Net OPEB Liability Fiduciary Net Position as a % of Total OPEB Liability	811,626,424 47.82%	842,722,273 49.28%	1,011,513,610 38.02%	853,432,174 39.35%	1,331,063,883 26.99%	1,522,219,434 22.38%					
Covered-Employee Payroll ¹	\$ 840,692,000	\$ 817,394,000	\$ 803,597,000	\$ 785,379,904	\$ 766,111,522	\$ 750,986,381	N/A	N/A	N/A	N.	
Net OPEB Liability as a Percentage of Covered Employee Payroll ¹	96.54%	103.10%	125.87%	108.66%	173.74%	202.70%	N/A	N/A	N/A		
Expected Average Remaining Service Years of All Participants	6.41	6.41	6.63	6.63	7.06	7.63	-	-	-	-	

6.10%

6.26%

5.88%

N/A

5.68%

Notes to Schedule:

Benefit changes: None.

Changes of assumptions: The dis

assumptions: The discount rate was changed as follows:

The discount rate changes year-to-year:

None.

1/ Payroll was provided as of 7/1/2022 and includes the base salary for all eligible employee groups. Temporary employees and employment groups that are not eligible for OPEb benefits have been excluded

5.28%

6.20%

N/A

N/A



Schedule of Changes in the Actuarially Determined Contribution and Related Ratios - Required by GASB 74

Schedule of Employer Contributions

Last 10 Fiscal Years

Information for EVE 2017 and parties is not available

initiation for FTE 2017 and earlier is not available											
FYE	2022	2021	2020	2019	2018	2017	2016	2015		2014	2013
Actuarially Determined Contribution	\$ 65,113,000	\$ 75,979,000	\$ 72,150,000	\$ 116,737,000	\$ 117,474,000	\$ 112,702,000	N/A		N/A	N/A	N/A
Contributions in Relation to the Actuarially Determined Contribution	 69,423,628	 93,686,185	 88,939,381	 77,208,188	 63,725,810	 122,466,187					
Contribution Deficiency (Excess)	\$ (4,310,628)	\$ (17,707,185)	\$ (16,789,381)	\$ 39,528,812	\$ 53,748,190	\$ (9,764,187)	N/A		N/A	N/A	N/A
Covered-Employee Payroll ¹	\$ 840,692,000	\$ 817,394,000	\$ 803,597,000	\$ 785,379,904	\$ 766,111,522	\$ 750,986,381	N/A		N/A	N/A	N/A
Contributions as a Percentage of Covered Employee Payroll ¹	8.26%	11.46%	11.07%	9.83%	8.32%	16.31%	N/A		N/A	N/A	N/A

1/ Payroll was provided as of 7/1/2022 and includes the base salary for all eligible employee groups. Temporary employees and employment groups that are not eligible for OPEb benefits have been excluded

Notes to Schedule:

Benefit changes: None. Changes of assumptions: None

Methods and assumptions used to determine contribution rates:

Valuation Date

Projected Unit Credit Actuarial cost method Amortization method Level Percentage of Payroll

30 Year Open Remaining amortization period

Asset valuation method Market Value of Assets

Investment rate of return

Payroll growth rate Vary based on participant group and service. Increases start between 7.25% and 11.25% at hire and decrease to 3.50% after 20 years of service.

Inflation

Mortality For healthy retirees and beneficiaries - PUB-2010 Healthy Mortality, Headcount weighted Sex Distinct, Fully Generational projected from 2010 using scale MP-2018. Public safety employees are assumed to use the public safety version of the mortality table and the rest of the employees are assumed to use the general employees version of the

For disabled retirees - PUB-2010 Disabled Mortality, Headcount weighted Sex Distinct, Fully Generational projected from 2010 using scale MP-2018. Public safety employees are assumed to use the public safety version of the mortality table and the rest of the employees are assumed to use the general employees version of the

Healthcare cost trend rate The medical trend assumption was developed using the Society of Actuaries (SOA) Long-Run Medical Cost Trend Model, version 2019_b. The SOA

model is flexible and allows for adjustments that ultimately control how quickly the current trend converges to the percentage increase in the GDP.

Montgomery County has selected the following assumptions were used as input variables into the SOA model:

Rate of Inflation	2.40%
Rate of Growth in Real Income / GDP per ca	1.25%
Excess Medical Growth	1.20%
Expected Health Share of GDP in 2028	20.50%
Health Share of GDP Resistance Point	15.00%
Year for Limiting Cost Growth to GDP Growth	2040

The initial trend rate is 5.40% in 2020 and decreases until reaching the ultimate rate of 3.68% in 2040.

The dental trend is set to 4.50% per year.

The actuarially determined contribution and contributions in relation to the actuarially determined contribution are provided as of the measurement date. For example, the FYE 2022 disclosure (using a measurement date of 06/30/2022) is reporting the ADC and contributions made during the period 7/1/2021 - 06/30/2022.

1/ for years prior to FYE 2020, Based on the salary information provided from Montgomery County and the prior actuarial disclosure report. For FYE 2020, the payroll is based on projected payroll.



The Total and Net OPEB liability as of June 30, 2022, was determined by an actuarial valuation as of July 1, 2022 using the following actuarial assumptions, applied to all periods included in the measurement, unless otherwise noted below.

Actuarial cost method	Entry Age Normal
Discount Rate	6.20%
20 Yr. Municipal Bond Rate	3.69%
Municipal Bond Rate Basis	20-year tax exempt general obligation municipal bond with an average rating of AA/Aa
Expected Return on Assets	7.50%
Salary Increases	Vary based on participant group and service. Increases start between 4.25% and 8.25% at hire and decrease to 0.50% after 30 years of service. Increases are net of inflation.
General Inflation	3.00%
Mortality:	
Healthy	Group A, H, J, GRIP – Pub-2010 Healthy Mortality, Headcount weighted, General Employees, Sex Distinct, Fully Generational projected from 2010 using scale MP-2018
	Group E, F, G – Pub-2010 Healthy Mortality, Headcount weighted, Public Safety Employees, Sex Distinct, Fully Generational projected from 2010 using scale MP-2018
Disabled	Group A, H, J, GRIP – Pub-2010 Disabled Mortality, Headcount weighted, General Employees, Sex Distinct, Fully Generational projected from 2010 using scale MP-2018
	Group E, F, G – Pub-2010 Disabled Mortality, Headcount weighted, Public Safety Employees, Sex Distinct, Fully Generational projected from 2010 using scale MP-2018
Health care cost trend rates:	The medical trend assumption was developed using the Society of Actuaries (SOA) Long-Run Medical Cost Trend Model, version 2019_b. The initial rate is 5.40% and the ultimate rate is 3.68%.



Projection of Employer Contributions

	Projected Contributions											
		Total		tributions		tributions						
Fiscal	E	mployer	Fo	r Future	Fo	r Current						
Year	Со	ntribution	En	ployees	Participants							
Ending		(a)		(b)	(c)	= (a) - (b)						
2023	\$	72,635	\$	-	\$	72,635						
2024	\$	72,155	\$	-	\$	72,155						
2025	\$	71,706	\$	-	\$	71,706						
2026	\$	71,245	\$	-	\$	71,245						
2027	\$	70,878	\$	-	\$	70,878						
2028	\$	70,394	\$	-	\$	70,394						
2029	\$	69,876	\$	-	\$	69,876						
2030	\$	69,279	\$	-	\$	69,279						
2031	\$	68,588	\$	-	\$	68,588						
2032	\$	67,859	\$	-	\$	67,859						
2033	\$	67,260	\$	-	\$	67,260						
2034	\$	66,642	\$	-	\$	66,642						
2035	\$	65,960	\$	-	\$	65,960						
2036	\$	65,194	\$	-	\$	65,194						
2037	\$	64,379	\$	-	\$	64,379						
2038	\$	63,553	\$	-	\$	63,553						
2039	\$	62,886	\$	-	\$	62,886						
2040	\$	62,145	\$	-	\$	62,145						
2041	\$	61,430	\$	-	\$	61,430						
2042	\$	60,725	\$	-	\$	60,725						
2043	\$	59,862	\$	-	\$	59,862						
2044	\$	59,319	\$	-	\$	59,319						
2045	\$	58,839	\$	-	\$	58,839						
2046	\$	58,434	\$	-	\$	58,434						
2047	\$	58,163	\$	-	\$	58,163						
2048	\$	58,025	\$	-	\$	58,025						
2049	\$	58,027	\$	-	\$	58,027						
2050	\$	58,188	\$	-	\$	58,188						
2051	\$	58,503	\$	-	\$	58,503						
2052	\$	58,937	\$	-	\$	58,937						
2053	\$	59,477	\$	=	\$	59,477						
2054	\$	60,111	\$			60,111						
2055	\$	60,813	\$	=	\$	60,813						
2056	\$	61,565	\$	-	\$	61,565						
2057	\$	62,352	\$	=	\$	62,352						



Projection of Employer Contributions

	Projected Contributions										
		Total	Con	tributions	Cor	tributions					
Fiscal	E	mployer	Fo	r Future	For Current						
Year	Со	ntribution	Em	ployees	Participants						
Ending		(a)		(b)	(c) = (a) - (b)						
2058	\$	63,154	\$	-	\$	63,154					
2059	\$	63,957	\$	-	\$	63,957					
2060	\$	64,764	\$	-	\$	64,764					
2061	\$	65,221	\$	-	\$	65,221					
2062	\$	62,654	\$	-	\$	62,654					
2063	\$	60,205	\$	-	\$	60,205					
2064	\$	57,887	\$	-	\$	57,887					
2065	\$	55,671	\$	-	\$	55,671					
2066	\$	53,509	\$	-	\$	53,509					
2067	\$	51,375	\$	-	\$	51,375					
2068	\$	49,276	\$	-	\$	49,276					
2069	\$	47,165	\$	-	\$	47,165					
2070	\$	45,044	\$	-	\$	45,044					
2071	\$	42,920	\$	-	\$	42,920					
2072	\$	40,786	\$	-	\$	40,786					
2073	\$	38,647	\$	-	\$	38,647					
2074	\$	36,511	\$	-	\$	36,511					
2075	\$	34,388	\$	-	\$	34,388					
2076	\$	32,284	\$	-	\$	32,284					
2077	\$	30,210	\$	-	\$	30,210					
2078	\$	28,173	\$	-	\$	28,173					
2079	\$	26,184	\$	-	\$	26,184					
2080	\$	24,250	\$	-	\$	24,250					
2081	\$	22,382	\$	-	\$	22,382					
2082	\$	20,586	\$	-	\$	20,586					
2083	\$	18,872	\$	-	\$	18,872					
2084	\$	17,246	\$	-	\$	17,246					
2085	\$	15,715	\$	-	\$	15,715					
2086	\$	14,282	\$	-	\$	14,282					
2087	\$	12,954	\$	-	\$	12,954					
2088	\$	11,730	\$	-	\$	11,730					
2089	\$	10,613	\$	-	\$	10,613					
2090	\$	9,604	\$	-	\$	9,604					
2091	\$	8,702	\$	-	\$	8,702					
2092	\$	7,904	\$	-	\$	7,904					



Projection of Employer Contributions

		Pro	Contribution	ons			
		Total	Con	tributions	Contributions		
Fiscal	Er	nployer	Fo	r Future	Foi	Current	
Year	Cor	ntribution	Em	ployees	Pai	ticipants	
Ending		(a)		(b)	(c) :	= (a) - (b)	
2093	\$	7,208	\$	-	\$	7,208	
2094	\$	6,609	\$	-	\$	6,609	
2095	\$	6,103	\$	-	\$	6,103	
2096	\$	5,682	\$	-	\$	5,682	
2097	\$	5,343	\$	-	\$	5,343	
2098	\$	5,076	\$	-	\$	5,076	
2099	\$	4,876	\$	-	\$	4,876	
2100	\$	4,736	\$	-	\$	4,736	
2101	\$	4,647	\$	-	\$	4,647	
2102	\$	4,605	\$	-	\$	4,605	
2103	\$	4,601	\$	-	\$	4,601	
2104	\$	4,631	\$	-	\$	4,631	
2105	\$	4,688	\$	-	\$	4,688	
2106	\$	4,769	\$	-	\$	4,769	
2107	\$	4,869	\$	-	\$	4,869	
2108	\$	4,983	\$	-	\$	4,983	
2109	\$	5,111	\$	-	\$	5,111	
2110	\$	5,249	\$	-	\$	5,249	
2111	\$	5,397	\$	-	\$	5,397	
2112	\$	5,552	\$	-	\$	5,552	



Projection of OPEB Plan's Fiduciary Net Position

Fiscal Year	Projected Beginning Fiduciary Net Position	Cor Fo	Projected ntributions or Current rticipants ¹	Projected Benefit Payments	ln	Projected vestment Earnings	ninistrative xpenses	End	Projected ling Fiduciary et Position ²
Ending	(a)		(b)	(c)		(d)	(e)		(f)
2023	\$ 743,792	\$	72,635	\$ 78,509	\$	55,554	\$ 372	\$	793,100
2024	\$ 793,100	\$	72,155	\$ 84,234	\$	59,024	\$ 383	\$	839,662
2025	\$ 839,662	\$	71,706	\$ 90,407	\$	62,272	\$ 395	\$	882,838
2026	\$ 882,838	\$	71,245	\$ 96,470	\$	65,269	\$ 406	\$	922,476
2027	\$ 922,476	\$	70,878	\$ 101,628	\$	68,038	\$ 419	\$	959,345
2028	\$ 959,345	\$	70,394	\$ 107,301	\$	70,576	\$ 431	\$	992,583
2029	\$ 992,583	\$	69,876	\$ 112,786	\$	72,847	\$ 444	\$	1,022,077
2030	\$ 1,022,077	\$	69,279	\$ 117,249	\$	74,873	\$ 457	\$	1,048,522
2031	\$ 1,048,522	\$	68,588	\$ 121,827	\$	76,661	\$ 471	\$	1,071,473
2032	\$ 1,071,473	\$	67,859	\$ 126,460	\$	78,185	\$ 485	\$	1,090,572
2033	\$ 1,090,572	\$	67,260	\$ 130,331	\$	79,452	\$ 500	\$	1,106,453
2034	\$ 1,106,453	\$	66,642	\$ 134,250	\$	80,476	\$ 515	\$	1,118,806
2035	\$ 1,118,806	\$	65,960	\$ 137,845	\$	81,244	\$ 530	\$	1,127,635
2036	\$ 1,127,635	\$	65,194	\$ 140,019	\$	81,797	\$ 546	\$	1,134,062
2037	\$ 1,134,062	\$	64,379	\$ 143,732	\$	82,112	\$ 562	\$	1,136,258
2038	\$ 1,136,258	\$	63,553	\$ 147,200	\$	82,118	\$ 579	\$	1,134,150
2039	\$ 1,134,150	\$	62,886	\$ 150,562	\$	81,811	\$ 597	\$	1,127,688
2040	\$ 1,127,688	\$	62,145	\$ 154,338	\$	81,159	\$ 615	\$	1,116,040
2041	\$ 1,116,040	\$	61,430	\$ 158,458	\$	80,107	\$ 633	\$	1,098,485
2042	\$ 1,098,485	\$	60,725	\$ 162,269	\$	78,623	\$ 652	\$	1,074,913
2043	\$ 1,074,913	\$	59,862	\$ 166,222	\$	76,677	\$ 672	\$	1,044,559
2044	\$ 1,044,559	\$	59,319	\$ 169,530	\$	74,258	\$ 692	\$	1,007,914
2045	\$ 1,007,914	\$	58,839	\$ 171,564	\$	71,417	\$ 713	\$	965,893
2046	\$ 965,893	\$	58,434	\$ 174,267	\$	68,150	\$ 734	\$	917,476
2047	\$ 917,476	\$	58,163	\$ 176,056	\$	64,442	\$ 756	\$	863,269
2048	\$ 863,269	\$	58,025	\$ 176,836	\$	60,342	\$ 779	\$	804,021
2049	\$ 804,021	\$	58,027	\$ 176,524	\$	55,909	\$ 802	\$	740,631
2050	\$ 740,631	\$	58,188	\$ 176,305	\$	51,168	\$ 826	\$	672,855
2051	\$ 672,855	\$	58,503	\$ 174,029	\$	46,179	\$ 851	\$	602,657
2052	\$ 602,657	\$	58,937	\$ 171,303	\$	41,029	\$ 876	\$	530,444
2053	\$ 530,444	\$	59,477	\$ 167,752	\$	35,763	\$ 903	\$	457,030
2054	\$ 457,030	\$	60,111	\$ 162,357	\$	30,478	\$ 930	\$	384,332
2055	\$ 384,332	\$	60,813	\$ 156,704	\$	25,259	\$ 958	\$	312,742
2056	\$ 312,742	\$	61,565	\$ 150,379	\$	20,149	\$ 986	\$	243,091



Projection of OPEB Plan's Fiduciary Net Position

		Projected	Р	rojected									
	Beginning		Beginning Contributions		F	Projected	P	Projected			Р	rojected	
Fiscal	Fiduciary		For Current		Benefit		In	vestment	Adm	ninistrative	Ending Fiduciary		
Year	Net Position		Participants ¹		Payments		E	Earnings	E	xpenses	Net Position ²		
Ending		(a)		(b)		(c)		(d)		(e)		(f)	
2057	\$	243,091	\$	62,352	\$	143,595	\$	15,203	\$	1,016	\$	176,034	
2058	\$	176,034	\$	63,154	\$	135,904	\$	10,485	\$	1,047	\$	112,723	
2059	\$	112,723	\$	63,957	\$	129,737	\$	5,992	\$	1,078	\$	51,858	
2060	\$	51,858	\$	64,764	\$	122,681	\$	1,716	\$	1,110	\$	-	
2061	\$	-	\$	65,221	\$	115,939	\$	(1,910)	\$	1,144	\$	-	
2062	\$	-	\$	62,654	\$	110,863	\$	(1,819)	\$	1,178	\$	-	
2063	\$	-	\$	60,205	\$	105,666	\$	(1,719)	\$	1,213	\$	-	
2064	\$	-	\$	57,887	\$	101,030	\$	(1,635)	\$	1,250	\$	-	
2065	\$	-	\$	55,671	\$	97,499	\$	(1,588)	\$	1,287	\$	-	
2066	\$	-	\$	53,509	\$	94,392	\$	(1,554)	\$	1,326	\$	-	
2067	\$	-	\$	51,375	\$	91,241	\$	(1,518)	\$	1,365	\$	-	
2068	\$	-	\$	49,276	\$	88,909	\$	(1,511)	\$	1,406	\$	-	
2069	\$	-	\$	47,165	\$	86,569	\$	(1,504)	\$	1,449	\$	-	
2070	\$	-	\$	45,044	\$	84,090	\$	(1,493)	\$	1,492	\$	-	
2071	\$	-	\$	42,920	\$	81,782	\$	(1,488)	\$	1,537	\$	-	
2072	\$	-	\$	40,786	\$	79,318	\$	(1,477)	\$	1,583	\$	-	
2073	\$	-	\$	38,647	\$	76,760	\$	(1,463)	\$	1,631	\$	-	
2074	\$	-	\$	36,511	\$	74,054	\$	(1,444)	\$	1,679	\$	-	
2075	\$	-	\$	34,388	\$	71,245	\$	(1,421)	\$	1,730	\$	-	
2076	\$	-	\$	32,284	\$	68,322	\$	(1,393)	\$	1,782	\$	-	
2077	\$	-	\$	30,210	\$	65,274	\$	(1,359)	\$	1,835	\$	-	
2078	\$	-	\$	28,173	\$	62,143	\$	(1,320)	\$	1,890	\$	-	
2079	\$	-	\$	26,184	\$	58,916	\$	(1,277)	\$	1,947	\$	-	
2080	\$	-	\$	24,250	\$	55,621	\$	(1,229)	\$	2,005	\$	-	
2081	\$	-	\$	22,382	\$	52,268	\$	(1,177)	\$	2,066	\$	-	
2082	\$	-	\$	20,586	\$	48,881	\$	(1,120)	\$	2,128	\$	-	
2083	\$	-	\$	18,872	\$	45,473	\$	(1,060)	\$	2,191	\$	-	
2084	\$	-	\$	17,246	\$	42,079	\$	(998)	\$	2,257	\$	-	
2085	\$	-	\$	15,715	\$	38,713	\$	(932)	\$	2,325	\$	-	
2086	\$	-	\$	14,282	\$	35,396	\$	(866)	\$	2,395	\$	-	
2087	\$	-	\$	12,954	\$	32,163	\$	(798)	\$	2,466	\$	-	
2088	\$	-	\$	11,730	\$	29,021	\$	(730)	\$	2,540	\$	-	
2089	\$	-	\$	10,613	\$	26,001	\$	(663)	\$	2,617	\$	-	
2090	\$	-	\$	9,604	\$	23,120	\$	(597)	\$	2,695	\$	-	
2091	\$	-	\$	8,702	\$	20,391	\$	(533)	\$	2,776	\$	-	
2092	\$	-	\$	7,904	\$	17,831	\$	(471)	\$	2,859	\$	-	
2093	\$	-	\$	7,208	\$	15,449	\$	(412)	\$	2,945	\$	-	
2094	\$	-	\$	6,609	\$	13,256	\$	(356)	\$	3,033	\$	-	
2095	\$	-	\$	6,103	\$	11,257	\$	(305)	\$	3,124	\$	-	



Projection of OPEB Plan's Fiduciary Net Position

Fiscal Year Ending	Projected Beginning Fiduciary Net Position (a)		Projected Contributions For Current Participants ¹ (b)		Projected Benefit Payments (c)		li	Projected nvestment Earnings (d)	ministrative Expenses (e)	Projected Ending Fiduciary Net Position ² (f)		
2096	\$	-	\$	5,682	\$	9,455	\$	(257)	\$ 3,218	\$	-	
2097	\$	-	\$	5,343	\$	7,849	\$	(214)	\$ 3,315	\$	-	
2098	\$	-	\$	5,076	\$	6,435	\$	(176)	\$ 3,414	\$	-	
2099	\$	-	\$	4,876	\$	5,207	\$	(142)	\$ 3,516	\$	-	
2100	\$	-	\$	4,736	\$	4,156	\$	(112)	\$ 3,622	\$	-	
2101	\$	-	\$	4,647	\$	3,269	\$	(87)	\$ 3,731	\$	-	
2102	\$	-	\$	4,605	\$	2,531	\$	(65)	\$ 3,843	\$	-	
2103	\$	-	\$	4,601	\$	1,929	\$	(47)	\$ 3,958	\$	-	
2104	\$	-	\$	4,631	\$	1,446	\$	(33)	\$ 4,077	\$	-	
2105	\$	-	\$	4,688	\$	1,064	\$	(21)	\$ 4,199	\$	-	
2106	\$	-	\$	4,769	\$	769	\$	(12)	\$ 4,325	\$	-	
2107	\$	-	\$	4,869	\$	545	\$	(5)	\$ 4,455	\$	-	
2108	\$	-	\$	4,983	\$	378	\$	1	\$ 4,588	\$	-	
2109	\$	-	\$	5,111	\$	257	\$	5	\$ 4,726	\$	-	
2110	\$	-	\$	5,249	\$	170	\$	8	\$ 4,868	\$	-	
2111	\$	-	\$	5,397	\$	110	\$	10	\$ 5,014	\$	-	
2112	\$	-	\$	5,552	\$	-	\$	14	\$ 5,164	\$	-	

¹ From Table 1, Column (c) ² (f) = (a) + (b) - (c) + (d) - (e)



Actuarial Value of Projected Benefit Payments

Fiscal	Projected Beginning Fiduciary		Beginning Projected Fiduciary Benefit		"Funded" Portion of Benefit		"Unfunded" Portion of Benefit Payments		of "	sent Value Funded" Benefit	of "U	ent Value Infunded" Benefit	Present Value of Benefit Payments Using the Single Discount Rate ⁴		
Year	Net Position ¹		Payments		Payments				Pa	yments ²	Pa	yments ³			
Ending		(a)		(b)		(c)		(d)		(e)		(f)		(g)	
2023	\$	743,792	\$	78,509	\$	78,509	\$	-	\$	75,721	\$	-	\$	76,183	
2024	\$	793,100	\$	84,234	\$	84,234	\$	-	\$	75,574	\$	-	\$	76,967	
2025	\$	839,662	\$	90,407	\$	90,407	\$	-	\$	75,454	\$	-	\$	77,785	
2026	\$	882,838	\$	96,470	\$	96,470	\$	-	\$	74,897	\$	-	\$	78,156	
2027	\$	922,476	\$	101,628	\$	101,628	\$	-	\$	73,396	\$	-	\$	77,528	
2028	\$	959,345	\$	107,301	\$	107,301	\$	-	\$	72,087	\$	-	\$	77,077	
2029	\$	992,583	\$	112,786	\$	112,786	\$	-	\$	70,486	\$	-	\$	76,288	
2030	\$	1,022,077	\$	117,249	\$	117,249	\$	-	\$	68,163	\$	-	\$	74,677	
2031	\$	1,048,522	\$	121,827	\$	121,827	\$	-	\$	65,883	\$	-	\$	73,063	
2032	\$	1,071,473	\$	126,460	\$	126,460	\$	-	\$	63,617	\$	-	\$	71,414	
2033	\$	1,090,572	\$	130,331	\$	130,331	\$	-	\$	60,990	\$	-	\$	69,304	
2034	\$	1,106,453	\$	134,250	\$	134,250	\$	-	\$	58,441	\$	-	\$	67,220	
2035	\$	1,118,806	\$	137,845	\$	137,845	\$	-	\$	55,819	\$	-	\$	64,991	
2036	\$	1,127,635	\$	140,019	\$	140,019	\$	-	\$	52,744	\$	-	\$	62,162	
2037	\$	1,134,062	\$	143,732	\$	143,732	\$	-	\$	50,365	\$	-	\$	60,085	
2038	\$	1,136,258	\$	147,200	\$	147,200	\$	-	\$	47,982	\$	-	\$	57,943	
2039	\$	1,134,150	\$	150,562	\$	150,562	\$	-	\$	45,654	\$	-	\$	55,807	
2040	\$	1,127,688	\$	154,338	\$	154,338	\$	-	\$	43,534	\$	-	\$	53,867	
2041	\$	1,116,040	\$	158,458	\$	158,458	\$	-	\$	41,577	\$	-	\$	52,076	
2042	\$	1,098,485	\$	162,269	\$	162,269	\$	-	\$	39,607	\$	-	\$	50,215	
2043 2044	\$	1,074,913	\$	166,222	\$	166,222	\$	-	\$	37,741	\$	-	\$	48,436	
	\$	1,044,559	\$	169,530	\$	169,530	\$	-	\$	35,807	\$	-	\$	46,516	
2045 2046	\$	1,007,914 965,893	\$ \$	171,564 174,267	\$ \$	171,564 174,267	\$	-	\$ \$	33,708	\$	-	\$ \$	44,326 42,396	
2046	\$	·	\$	174,267	\$	174,267	\$	-		31,850	\$	-		42,396	
2047	\$ \$	917,476 863,269	\$	176,036	\$	176,036	\$ \$	-	\$ \$	29,933	\$ \$	-	\$ \$		
2048		804,021	\$	176,636	\$	176,536	\$	-	\$	27,968 25,970	\$	-		38,145 35,854	
2049	\$ \$	740,631	\$	176,324	\$	176,324	\$		\$	25,970	\$	-	\$ \$	33,720	
2050	\$	672,855	\$	174,029	\$	174,029	\$	-	\$	22,155	\$	-	\$	31,341	
2051	\$	602,657	\$	174,029	\$	174,029	\$	-	\$	20,287	\$		\$	29,049	
2052	\$	530,444	\$	167,752	\$	167,752	\$	-	\$	18,480	\$	_	\$	26,786	
2054	\$	457,030	\$	162,357	\$	162,357	\$	-	\$	16,638	\$		\$	24,412	
2055	\$	384,332	\$	156,704	\$	156,704	\$	-	\$	14,938	\$	_	\$	22,186	
2056	\$	312,742	\$	150,704	\$	150,704	\$	_	\$	13,335	\$	_	\$	20,048	
2057	\$	243,091	\$	143,595	\$	143,595	\$	_	\$	11,845	\$	_	\$	18,026	
2058	\$	176,034	\$	135,904	\$	135.904	\$	_	\$	10.429	\$	-	\$	16,064	
2059	\$	112,723	\$	129,737	\$	-	\$	129,737	\$	-	\$	34,567	\$	14,440	
2060	\$	51,858	\$	122,681	\$	-	\$	122,681	\$	_	\$	31,524	\$	12,858	
2061	\$	-	\$	115,939	\$	-	\$	115,939	\$	-	\$	28,732	\$	11,442	
2062	\$	-	\$	110,863	\$	-	\$	110,863	\$	-	\$	26,496	\$	10,302	
2063	\$	-	\$	105,666	\$	-	\$	105,666	\$	-	\$	24,355	\$	9,246	
2064	\$	_	\$	101,030	\$	-	\$	101,030	\$	-	\$	22,458	\$	8,324	
2065	\$	-	\$	97,499	\$	-	\$	97,499	\$	-	\$	20,902	\$	7,564	



Actuarial Value of Projected Benefit Payments

Fiscal Year Ending	Projected Beginning Fiduciary Net Position ¹ (a)		Beginning Projected Fiduciary Benefit Net Position ¹ Payments		Po E	"Funded" "Unfunded" Portion of Portion of Benefit Benefit Payments Payments (c) (d)			of "I B	ent Value Funded" enefit vments ² (e)	of "l	sent Value Jnfunded" Benefit yments ³ (f)	Present Value of Benefit Payments Using the Single Discount Rate ⁴ (g)	
2066	\$	-	\$	94,392	\$	-	\$	94,392	\$	-	\$	19,516	\$	6,896
2067	\$	-	\$	91,241	\$	-	\$	91,241	\$	-	\$	18,193	\$	6,276
2068	\$	-	\$	88,909	\$	-	\$	88,909	\$	-	\$	17,097	\$	5,759
2069	\$	-	\$	86,569	\$	-	\$	86,569	\$	-	\$	16,055	\$	5,280
2070	\$	-	\$	84,090	\$	-	\$	84,090	\$	-	\$	15,040	\$	4,829
2071	\$	-	\$	81,782	\$	-	\$	81,782	\$	-	\$	14,107	\$	4,423
2072	\$	-	\$	79,318	\$	-	\$	79,318	\$	-	\$	13,195	\$	4,039
2073	\$	-	\$	76,760	\$	-	\$	76,760	\$	-	\$	12,315	\$	3,681
2074	\$	-	\$	74,054	\$	-	\$	74,054	\$	-	\$	11,458	\$	3,344
2075	\$	-	\$	71,245	\$	-	\$	71,245	\$	-	\$	10,631	\$	3,029
2076	\$	-	\$	68,322	\$	-	\$	68,322	\$	-	\$	9,832	\$	2,735
2077	\$	-	\$	65,274	\$	-	\$	65,274	\$	-	\$	9,059	\$	2,461
2078	\$	-	\$	62,143	\$	-	\$	62,143	\$	-	\$	8,318	\$	2,206
2079	\$	-	\$	58,916	\$	-	\$	58,916	\$	-	\$	7,605	\$	1,969
2080	\$	-	\$	55,621	\$	-	\$	55,621	\$	-	\$	6,924	\$	1,751
2081	\$	-	\$	52,268	\$	-	\$	52,268	\$	-	\$	6,275	\$	1,549
2082	\$	-	\$	48,881	\$	-	\$	48,881	\$	-	\$	5,660	\$	1,364
2083	\$	-	\$	45,473	\$	-	\$	45,473	\$	-	\$	5,078	\$	1,195
2084	\$	-	\$	42,079	\$	-	\$	42,079	\$	-	\$	4,532	\$	1,041
2085	\$	-	\$	38,713	\$	-	\$	38,713	\$	-	\$	4,021	\$	902
2086	\$	-	\$	35,396	\$	-	\$	35,396	\$	-	\$	3,545	\$	777
2087	\$	-	\$	32,163	\$	-	\$	32,163	\$	-	\$	3,107	\$	664
2088	\$	-	\$	29,021	\$	-	\$	29,021	\$	-	\$	2,704	\$	564
2089	\$	-	\$	26,001	\$	-	\$	26,001	\$	-	\$	2,336	\$	476
2090	\$	-	\$	23,120	\$	-	\$	23,120	\$	-	\$	2,003	\$	399
2091	\$	-	\$	20,391	\$	-	\$	20,391	\$	-	\$	1,704	\$	331
2092	\$	-	\$	17,831	\$	-	\$	17,831	\$	-	\$	1,437	\$	273
2093	\$	-	\$	15,449	\$	-	\$	15,449	\$	-	\$	1,201	\$	222
2094	\$	-	\$	13,256	\$	-	\$	13,256	\$	-	\$	994	\$	180
2095	\$	-	\$	11,257	\$	-	\$	11,257	\$	-	\$	814	\$	144
2096	\$	-	\$	9,455	\$	-	\$	9,455	\$	-	\$	659	\$	114
2097	\$	-	\$	7,849	\$	-	\$	7,849	\$	-	\$	528	\$	89
2098	\$	-	\$	6,435	\$	-	\$	6,435	\$	-	\$	417	\$	69
2099	\$	-	\$	5,207	\$	-	\$	5,207	\$	-	\$	326	\$	52
2100	\$	-	\$	4,156	\$	-	\$	4,156	\$	-	\$	251	\$	39
2101	\$	-	\$	3,269	\$	-	\$	3,269	\$	-	\$	190	\$	29
2102	\$	-	\$	2,531	\$	-	\$	2,531	\$	-	\$	142	\$	21
2103	\$	-	\$	1,929	\$	-	\$	1,929	\$	-	\$	104	\$	15



Actuarial Value of Projected Benefit Payments

Fiscal Year Ending	٨	Projected Beginning Projected Fiduciary Benefit Net Position ¹ Payments (a) (b)		"Funded" Portion of Benefit Payments (c)	Ī	Jnfunded" Portion of Benefit Payments (d)	Present Value of "Funded" Benefit Payments ² (e)		Present Value of "Unfunded" Benefit Payments ³ (f)			Present Value of Benefit Payments Using the Single Discount Rate ⁴ (g)			
2104	\$	-	\$	1,446	\$ -	\$	1,446	\$	-		\$	75		\$	11
2105	\$	-	\$	1,064	\$ -	\$	1,064	\$	-		\$	54		\$	7
2106	\$	-	\$	769	\$ -	\$	769	\$	-		\$	37		\$	5
2107	\$	-	\$	545	\$ -	\$	545	\$	-		\$	26		\$	3
2108	\$	-	\$	378	\$ -	\$	378	\$	-		\$	17		\$	2
2109	\$	-	\$	257	\$ -	\$	257	\$	-		\$	11		\$	1
2110	\$	-	\$	170	\$ -	\$	170	\$	-		\$	7		\$	1
2109	\$	-	\$	257	\$ -	\$	257	\$	-		\$	11		\$	1
2110	\$	-	\$	170	\$ -	\$	170	\$	-		\$	7		\$	1
2111	\$	-	\$	110	\$ -	\$	110	\$	-		\$	4		\$	1
Total								\$	1,587,204	+	\$	426,634	=	\$	2,013,838

Note: 6.2% was selected so that the Present Value of Benefits (column (g)) would equal the sum of columns (e) and (f).

¹ From Table 2, Column (a)

 $^{^{2}}$ (e) = (c) / (1 + 7.5%)^(year-2022-0.5)

 $^{^{3}}$ (f) = (d) / (1 + 3.69%)^(year-2022-0.5)

 $^{^{4}}$ (g) = (b) / (1 + 6.2%)^(year-2022-0.5)