

This Filing Applies to:

 Sacramento Public Financing Authority, Lease Revenue Bonds (Golden 1 Center), Series 2015 (Federally Taxable), \$299,995,000, Dated: August 13, 2015
 78605QAF4, 78605QAG2, 78605QAH0, 78605QAJ6

TYPE OF FILING:

If information is also available on the Internet, give URL: www.dacbond.com

WHAT TYPE OF INFORMATION ARE YOU PROVIDING? (Check all that apply)

Financial / Operating Data Disclosures

Rule 15c2-12 Disclosure

Annual Financial Information & Operating Data (Rule 15c2-12)

2020 Operating Data - 2015 Lease Revenue Bonds(G1C)

Audited Financial Statements or CAFR (Rule 15c2-12)

Failure to provide as required

Additional / Voluntary Disclosure

Quarterly / Monthly Financial Information
Change in Fiscal Year / Timing of Annual Disclosure
Change in Accounting Standard
Interim / Additional Financial Information / Operating Data
Budget
Investment / Debt / Financial Policy
Information Provided to Rating Agency, Credit / Liquidity Provider or Other Third Party
Consultant Reports

Other Financial / Operating Data

Event Filing

Rule 15c2-12 Disclosure

Principal / Interest Payment Delinquency
Non-payment Related Default
Unscheduled Draw on Debt Service Reserve Reflecting Financial Difficulties
Unscheduled Draw on Credit Enhancement Reflecting Financial Difficulties
Substitution of Credit or Liquidity Provider, or Its Failure to Perform
Adverse Tax Opinion or Event Affecting the Tax-exempt Status of the Security
Modification to the Rights of Security Holders
Bond Call
Defeasance
Release, Substitution or Sale of Property Securing Repayment of the Security
Rating Change
Tender Offer / Secondary Market Purchases
Merger / Consolidation / Acquisition and Sale of All or Substantially All Assets
Bankruptcy, insolvency, receivership or similar event
Successor, Additional or Change in Trustee
Failure to Provide Event Filing Information as Required
Financial Obligation - Incurrence and Agreement

Additional / Voluntary Disclosure

- Amendment to Continuing Disclosure Undertaking
- Change in Obligated Person
- Notice to Investor Pursuant to Bond Documents
- Communication From the Internal Revenue Service
- Bid For Auction Rate or Other Securities
- Capital or Other Financing Plan
- Litigation / Enforcement Action
- Change of Tender Agent, Remarketing Agent or Other On-going Party
- Derivative or Other Similar Transaction
- Other Event-based Disclosures

Asset-Backed Securities Filing

Additional / Voluntary Disclosure

Initial Asset-Backed Securities Disclosure (SEC Rule 15Ga-1(c)(1))

Quarterly Asset-Backed Securities Disclosure (SEC Rule 15Ga-1(c)(2)(i))

Annual Asset-Backed Securities Disclosure (SEC Rule 15Ga-1(c)(2)(ii))

Other Asset-Backed Securities Disclosure (e.g. notice of termination of duty to file reports pursuant to SEC Rule 15Ga-1(c)(3))

Disclosure Dissemination Agent Contact:

Name: DAC Address: 315 East Robinson Street Suite 300 City: Orlando State: FL Zip Code: 32801-1674 Telephone: 407 515 - 1100 Fax: 407 515 - 6513 Email Address: emmaagent@dacbond.com Relationship to Issuer: Dissemination Agent

Authorized By: Name: Claudia Lara Title: Treasury Analyst Entity: Sacramento, CA, City of Sacramento

Digital Assurance Certification

Filing Certificate

DAC transmitted the Annual Financial Information & Operating Data (Rule 15c2-12) to EMMA/SID (if applicable) on behalf of Sacramento, CA, City of Sacramento under their SEC Rule 15c2-12 Continuing Disclosure Agreement.

Transmission Details: P31083209

Date & Time Stamp:	03/30/2021
Document Name or Event Type:	Annual Financial Information & Operating Data (Rule 15c2-12)
Document Description:	2020 Operating Data - 2015 Lease Revenue Bonds(G1C)
DAC Bond Coversheet:	Yes
Transmitted to:	MSRB-EMMA
Total CUSIPs associated with this Filing:	4
Filing made on Series:	2015
Codes: P (Prerefunded), R (Refunded), U (Unrefunded), E (E	scrowed), A (Advance Refunding), D (Defeased), T (Tendered), V (Derivatives),

Codes: P (Prerefunded), R (Refunded), U (Unrefunded), E (Escrowed), A (Advance Refunding), D (Defeased), T (Tendered), V (Derivatives), UD (Undetermined), NLO (No Longer Outstanding)

Red: Original CUSIPs - filing missed · Blue: Non-Original CUSIPs - filing missed · Green: Outstanding CUSIPs - filing made · Black: Inactive CUSIPs

1. Issue: Sacramento Public Financing Authority, Lease Revenue Bonds (Golden 1 Center), Series 2015 (Federally Taxable), \$299,995,000, Dated: August 13, 2015

CUSIP: 78605QAF4, 78605QAG2, 78605QAH0, 78605QAJ6

No missing CUSIPs for this bond issue

City of Sacramento Annual Continuing Disclosure Report Fiscal Year 2019-20

Issue	Sacramento Public Financing Authority 2015 Lease Revenue Bonds (Golden 1 Center) (Federally Taxable)
Par	\$ 272,870,000
Issued	October 6, 2015
CUSIP Numbers	78605QAF4 78605QAG2 78605QAH0 78605QAJ6

Content of Annual Report

The City's Annual Report shall contain or incorporate by reference the following:

(a) The City's audited Annual Financial Report (AFR) for the prior fiscal year.

The City's AFR for the prior fiscal year was uploaded as a separate document to EMMA. The AFR is also available on the City's website at:

www.cityofsacramento.org/Finance/Accounting/Reporting

(b) The Annual Budget of the City for the current fiscal year.

The City's Approved Budget for the current fiscal year was uploaded as a separate document to EMMA and is also available on the City's website at:

www.cityofsacramento.org/Finance/Budget

(c) An update of the information in Tables of Appendix A to the Limited Offering Memorandum that are titled "STATEMENT OF GENERAL FUND REVENUES, EXPENDITURES AND CHANGES IN FUND BALANCE," "GROSS ASSESSED VALUES FOR ALL TAXABLE PROPERTY," "CITY OF SACRAMENTO LARGEST LOCAL SECURED TAXPAYERS", "GENERAL FUND OBLIGATION DEBT SERVICE," and "NOTICES OF DEFAULT AND FORECLOSURES OF PROPERTY WITHIN THE CITY." The updated information must reflect the most recently completed fiscal year and must be substantially in the form of the corresponding tables in Appendix A.

See Exhibit A – Statement of General Fund Revenues, Expenditures and Changes in Fund Balance

See Exhibit B – Gross Assessed Values for all Taxable Property



See Exhibit C – Largest Local Secured Taxpayers

See Exhibit D – General Fund Obligation Debt Service as of June 30, 2020

The information required by the Continuing Disclosure Certificate – "Notices of Default and Foreclosures of Property within the City of Sacramento" is no longer prepared by the County of Sacramento, Office of the Assessor. At this time the City of Sacramento is not aware of another reliable source to obtain notice of default and foreclosure information within the City of Sacramento in the same format as is presented on page 8 in Appendix A.

(d) The actuarial valuation report for the Miscellaneous Employees Plan and Safety Employees Plan most recently provided to the City by CalPERS as of the date the City files the Annual Report and the actuarial valuation report for SCERS most recently provided to the City by SCERS as of the date the City files the Annual Report.

See Exhibit E – GASB 68 Accounting Valuation Report – Miscellaneous Plan as of June 30, 2019

See Exhibit F – GASB 68 Accounting Valuation Report – Safety Plan as of June 30, 2019

See Exhibit G – SCERS Actuarial Valuation – as of June 30, 2020

(e) Any or all of the items listed in Section 3(a) or 3(b) may be included by specific reference to other documents (including official statements of debt issues of the City or related public entities) that have been submitted to EMMA or the Securities and Exchange Commission. If the document included by reference is a final official statement, it must be available through EMMA.

Voluntary Disclosures

See Exhibit H – 2015 Lease Revenue (Golden 1 Center) Debt Service Schedule

See Exhibit I – GASB 45 Actuarial Valuation Report of Retiree Healthcare Plan as of June 30, 2019

See Exhibit J – GASB 75 Retiree Healthcare Plan as of June 30, 2019



Exhibit A STATEMENT OF GENERAL FUND REVENUES, EXPENDITURES AND CHANGES IN FUND BALANCE

(in thousands)

	Actual 2015-16	Actual 2016-17	Actual 2017-18	Actual 2018-19	Actual 2019-20
Revenues:					
Property taxes	\$ 150,424	\$ 143,656	\$ 153,346	\$ 164,412	\$ 177,193
Sales and use taxes	67,983	80,395	84,887	93,769	90,969
Utilities use tax	61,404	62,997	62,989	60,128	60,039
Other taxes	26,732	29,961	36,184	39,820	42,506
Intergovernmental	16,253	14,009	22,380	16,350	15,919
Charges for services	73,632	85,780	100,205	108,972	105,446
Fines, forfeitures and penalties	12,110	10,906	12,069	15,964	12,898
Interest, rents and concessions	3,002	2,679	1,195	7,810	6,423
Assessment levies	172	266	291	356	341
Contributions and donations	13	14	85	68	20
Other revenues	245	259	301	536	974
Total revenues	411,970	430,922	473,932	508,185	512,728
Expenditures:					
General government	28,909	36,584	48,694	56,498	54,949
Police	128,891	132,108	138,473	152,637	158,887
Fire	106,399	112,868	119,437	124,324	139,421
Public works	11,308	13,233	13,607	15,101	13,393
Convention and cultural services	4,637	4,972	5,620	5,723	6,485
Economic development	2,114	2,337	-	-	- 21,670
Youth, parks, and community enrichment	15,144	19,979	21,428	22,286	
Community development	25,960	28,554	33,340	36,039	38,629
Library	7,130	7,130	8,380	9,380	10,130
Utilities	393	1,205	1,816	2,285	3,268
Citywide and community support	47,961	48,435	46,576	42,827	50,691
Capital outlay	12,577	19,276	21,513	19,392 1,189	17,589
Debt service Total Expenditures	3,219 394,642	<u>2,837</u> 429,518	<u>2,102</u> 460,986	487,681	<u>568</u> 515,680
Excess (deficiency) of revenues over	594,042	429,518	400,980	407,001	515,060
(under) expenditures	17,328	1,404	12,946	20,504	(2,952)
Other Financing Sources (uses):					
Transfers in	34,256	33,113	35,414	38,652	44,465
Transfers out	(25,032)	(28,959)	(31,545)	(27,919)	(26,680)
Total other financing sources (uses)	9,224	4,154	3,869	10,733	17,785
Special items	-	-	-	7,000	-
Changes in fund balances	\$ 26,552	\$ 5,558	\$ 16,815	\$ 38,237	\$ 14,833
Fund Balance, beginning of year	123,444	149,996	155,554	172,369	210,606
Fund Balance, end of year	\$ 149,996	\$ 155,554	\$ 172,369	\$ 210,606	\$ 225,439
Less reserves and commitments:					
Nonspendable	\$2	\$ 3,812	\$ 3,845	\$-	\$ 1,279
Restricted	2,962	17	-	-	-
Committed:					
Economic uncertainty	46,950	49,644	52,700	55,200	55,200
Capital projects	37,526	49,265	37,583	39,995	57,689
Community center theater renovation	8,500	-	-	-	-
-	5,720	1,386	6,189	9,568	5,635
Fire programs		1,300			5,055
Pension	-	-	5,000	13,500	-
OPEB	6,752	5,324	2,619	6,644	4,264
SCXEA labor for FY2020	-	-	-	4,256	-
Homeless programs	250	-	-	-	-
Gas tax	-	2,087	2,087	2,087	-
Other programs	13,953	19,280	37,325	46,052	49,405
Assigned:					
Unrealized investment gains	732	-	-	381	1,960
Unassigned	\$ 26,649	\$ 24,739	\$ 25,021	\$ 32,923	\$ 50,007

City of Sacramento Assessed Value and Estimated Actual Value of Taxable Property

Last Ten Fiscal Years

(in thousands)

	Gross Assessed Value ⁽¹⁾										
Fiscal Year End June 30	 Real Property		Personal Property		Public Itility ⁽²⁾	 Total	Ex	emptions	N(et Assessed Taxable Value	Total Direct Tax Rate ⁽³⁾
2011	\$ 36,388,660	\$	1,742,824	\$	11,977	\$ 38,143,461	\$	496,459	\$	37,647,002	1.00
2012	35,267,406		1,711,462		12,132	36,991,000		488,888		36,502,112	1.00
2013	34,332,037		1,626,943		13,157	35,972,137		477,326		35,494,811	1.00
2014	35,829,529		1,546,891		12,381	37,388,801		464,546		36,924,255	1.00
2015	37,918,666		1,585,876		18,173	39,522,715		455,212		39,067,503	1.00
2016	39,823,777		1,513,519		9,267	41,346,563		448,778		40,897,785	1.00
2017	42,300,010		1,623,203		9,193	43,932,406		446,690		43,485,716	1.00
2018	45,389,674		1,692,375		8,974	47,091,023		445,647		46,645,376	1.00
2019	48,919,753		1,868,599		8,701	50,797,053		444,652		50,352,401	1.00
2020	53,124,698		1,869,844		9,185	55,003,727		444,470		54,559,257	1.00

Notes: (1) Article XIII A, added to California Constitution by Proposition 13 in 1978, fixed the base for valuation of property subject to taxes at the full cash value appeared on the Assessor's 1975-76 assessment roll. Therefore, full cash value can be increased to reflect:

a) annual inflation up to 2%;

b) current market value at time of ownership change;

c) market value for new construction.

Estimated actual value of taxable property cannot be easily determined as the property in the City is not reassessed annually. Reassessment normally occurs when ownership changes.

(2) The decrease in public utility assessed value is primarily due to the transfer of the downtown railyards from a railroad company to a private developer and the City.

(3) This 1% is shared by all taxing agencies for which the subject property resides within.

Source: County of Sacramento, Office of Auditor/Controller

City of Sacramento Principal Property Taxpayers For the Fiscal Year and Nine Years Ago

(in thousands)

	2020			2	2011		
Taxpayer	 ssessed aluation	Rank	Percentage of Total Assessed Valuation	-	Assessed Valuation	Rank	Percentage of Total Assessed Valuation
Sacramento Kings	\$ 403,605	1	0.74 %		-		-
BRE Depot Park Land LLC	217,223	2	0.40		-		-
SG Downtown	200,213	3	0.37		-		-
400 Capitol Mall Owner LP	182,725	4	0.33		-		-
Pac West Office Equities	177,237	5	0.32		-		-
M/H Realty Partners VI LP	169,567	6	0.31		-		-
SRI Eleven 621 Capitol Mall LLC	164,220	7	0.30		-		-
Arden Fair Associates	150,210	8	0.28	\$	130,636	4	0.34 %
500 Capitol Mall LLC	144,555	9	0.27		-		-
GV/HI PK Tower Owner LLC	125,368	10	0.23		-		-
621 Capitol Mall LLC					114,166	8	0.30
Hines Sacramento Wells Fargo	-		-		593,478	1	1.55
CIM & 980 9th St Sacramento	-		-		322,978	2	0.85
Buzz Oats LLC	-		-		157,570	3	0.41
Downtown Plaza LLC	-		-		130,533	5	0.34
Sutter Community Hospitals	-		-		127,661	6	0.33
Verizon	-		-		118,144	7	0.31
Comcast Cable	-		-		108,769	9	0.29
1415 Meridian Plaza LLC	-		-		87,592	10	0.23
	 1,934,923		3.55		1,891,527		4.95
All other taxpayers	 52,624,334		96.45		35,755,475		95.05
Total	\$ 54,559,257		100.00 %	\$	37,647,002		100.00

Exhibit D

GENERAL FUND OBLIGATION DEBT SERVICE, AS OF JUNE 30, 2020

Fiscal Year	1993 Lease Revenue Bonds, Series A&B	2016 Refunding H Street Complex	2006 Capital Improvement Revenue Bonds, Series B	2006 Capital Improvement Revenue Bonds, Series E	2015 Lease Revenue Bonds (Golden 1 Center)	2015 Revenue Refunding Bonds	Total General Fund-related Leases & Loans Amount	Total Debt Service Obligations Amount
FY21	15,348,515	671,315	3,942,040	9,035,250.00	18,378,689	21,082,763	1,121,975	69,580,547
FY22	-	672,683	3,941,923	10,749,050.00	18,378,701	19,645,288	138,659	53,526,303
FY23	-	673,696	3,940,606	20,588,900.00	18,289,067	9,928,813	69,330	53,490,411
FY24	-	669,283	3,937,750	20,121,668.75	18,289,067	9,922,438	-	52,940,206
FY25	-	674,515	3,933,765	20,020,668.75	18,289,286	9,925,688	-	52,843,922
FY26	-	669,250	3,928,351	20,036,856.25	18,286,258	9,898,313	-	52,819,027
FY27	-	673,630	3,926,060	20,030,900.00	18,289,420	9,904,438	-	52,824,447
FY28	-	672,442	3,926,294	20,031,225.00	18,287,643	9,909,388	-	52,826,991
FY29	-	670,899	3,923,604	20,127,975.00	18,285,364	9,896,838	-	52,904,680
FY30	-	673 <i>,</i> 859	3,917,692	20,128,787.50	18,286,739	9,897,256	-	52,904,333
FY31	-	676,251	3,908,259	20,128,793.75	18,285,638	5,854,175	-	48,853,116
FY32	-	668,146	3,909,556	20,130,500.00	18,286,217	5,844,050	-	48,838,469
FY33	-	334,686	3,900,987	20,136,150.00	18,282,349	5,394,175	-	48,048,347
FY34	-	-	3,892,251	3,632,925.00	18,283,188	5,384,550	-	31,192,914
FY35	-	-	3,892,453	-	18,282,324	5,130,175	-	27,304,951
FY36	-	-	3,880,993	-	18,283,630	5,120,800	-	27,285,423
FY37	-	-	3,872,424	-	18,280,697	5,120,400	-	27,273,521
FY38	-	-	-	-	18,282,397	-	-	18,282,397
FY39	-	-	-	-	18,282,040	-	-	18,282,040
FY40	-	-	-	-	18,278,216	-	-	18,278,216
FY41	-	-	-	-	18,279,516	-	-	18,279,516
FY42	-	-	-	-	18,278,967	-	-	18,278,967
FY43	-	-	-	-	18,279,878	-	-	18,279,878
FY44	-	-	-	-	18,275,276	-	-	18,275,276
FY45	-	-	-	-	18,273,469	-	-	18,273,469
FY46	-	-	-	-	18,277,204	-	-	18,277,204
FY47	-	-	-	-	18,273,943	-	-	18,273,943
FY48	-	-	-	-	18,271,713	-	-	18,271,713
FY49	-	-	-	-	18,272,978	-	-	18,272,978
FY50	-	-	-	-	18,269,919	-	-	18,269,919
Total	15,348,515	8,400,655	66,575,004	244,899,650	548,639,793	157,859,544	1,329,964	1,043,053,125

Source: City of Sacramento

Exhibit E



GASB 68 Accounting Report

CalPERS ID: 7903930500 Valuation Rate Plan Identifier: 1209

Prepared for City of Sacramento Miscellaneous Plan, an Agent Multiple-Employer Defined Benefit Pension Plan

Measurement Date of June 30, 2019

Table of Contents

Actuarial Certification	3
Introduction	4
Changes in Net Pension Liability	5
Pension Expense/(Income) for the Measurement Period Ended June 30, 2019	6
Deferred Outflows and Deferred Inflows of Resources Related to Pensions	7
Schedules of Required Supplementary Information	8

Appendix A – Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions

Schedule of Changes of Assumptions	A-1
Deferred Outflows of Resources and Deferred Inflows of Resources Arising From Changes of Assumptions	A-2
Schedule of Differences Between Expected and Actual Experience	A-3
Deferred Outflows of Resources and Deferred Inflows of Resources Arising From Differences Between Expected and Actual Experience	A-4
Schedule of Differences Between Projected and Actual Earnings on Pension Plan Investments	A-5
Deferred Outflows of Resources and Deferred Inflows of Resources Arising From Differences Between Projected and Actual Earnings on Pension Plan Investments	A-6
Summary of Recognized Deferred Outflows of Resources and Deferred Inflows of Resources	A-7

Appendix B – Interest and Total Projected Earnings

Interest on Total Pension Liability and Total Projected Earnings B-1

Actuarial Certification

This report provides disclosure and reporting information as required under Governmental Accounting Standards Board Statement 68 (GASB 68) for the Miscellaneous Plan of the City of Sacramento (the "Plan"), an Agent Multiple-Employer Defined Benefit Pension Plan participating in the California Public Employees' Retirement System (CalPERS), for the measurement period ended June 30, 2019.

This report is to be viewed solely for the purpose of financial accounting requirements. Any usage of the contents provided in this report for purposes other than financial accounting requirements would be inappropriate.

This accounting report relies on liabilities and related validation work performed by the CalPERS Actuarial Office as part of the June 30, 2018 annual funding valuation for the Plan. The census data and benefit provisions underlying the liabilities were prepared as of June 30, 2018 and certified as part of the annual funding valuation by the CalPERS Actuarial Office. The June 30, 2018 liabilities, which were rolled forward to June 30, 2019 and used for this accounting report, are based on actuarial assumptions adopted by the CalPERS Board of Administration and consistent with the requirements of GASB 68. The assumptions and methods are internally consistent and reasonable for this Plan. The asset information used in this accounting report is provided by the CalPERS Financial Office.

With the provided liability and asset information, the total pension liability, net pension liability, deferred inflows and outflows and pension expense were developed for the measurement period using standard actuarial techniques.

The undersigned is an actuary for CalPERS, who is a member of the American Academy of Actuaries and the Society of Actuaries and meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

Mushmm

MAY SHUANG YU, ASA, MAAA Senior Pension Actuary, CalPERS

Introduction

This is the GASB 68 accounting report for the measurement date June 30, 2019. Notes to the Agent Multiple-Employer Defined Benefit Pension Plan GASB 68 accounting reports are in a separate document, which may be accessed on the CalPERS website at www.calpers.ca.gov.

GASB 68 requires that the reported results must pertain to liability and asset information within certain defined timeframes. For this report, the following timeframes are used.

Valuation Date	June 30, 2018
Measurement Date	June 30, 2019
Measurement Period	July 1, 2018 to June 30, 2019

Pension Plan Fiduciary Net Position

The plan fiduciary net position disclosed in your GASB 68 accounting report may differ from the plan assets reported in your funding actuarial valuation report due to several reasons. For example, for the accounting reports, CalPERS must keep items such as deficiency reserves and fiduciary self-insurance included as assets. These amounts are excluded for rate setting purposes in your funding actuarial valuation.

Changes in the Net Pension Liability

The following table shows the changes in net pension liability recognized over the measurement period.

	Increase (Decrease)					
	Total Pension Liability (a)	Plan Fiduciary Net Position (b)	Net Pension Liability/(Asset) (c) = (a) - (b)			
Balance at: 06/30/2018	\$1,324,669,340	\$973,081,747	\$351,587,593			
Beginning of Year Adjustment	\$0	\$0	\$0			
Adjusted Balance at: 06/30/2018	\$1,324,669,340	\$973,081,747	\$351,587,593			
Changes Recognized for the Measurement Period:						
Service Cost	29,053,385		29,053,385			
Interest on Total Pension Liability	94,760,263		94,760,263			
Changes of Benefit Terms	0		0			
Changes of Assumptions	0		0			
Differences Between Expected and Actual Experience	12,969,987		12,969,987			
Net Plan to Plan Resource Movement		494	(494)			
Contributions – Employer		34,101,948	(34,101,948)			
Contributions – Employees		14,288,578	(14,288,578)			
Net Investment Income		64,092,297	(64,092,297)			
Benefit Payments, Including Refunds of Employee Contributions	(53,695,328)	(53,695,328)	0			
Administrative Expense		(694,412)	694,412			
Other Miscellaneous Income/(Expense)		2,256	(2,256)			
Net Changes During 2018-19	\$83,088,307	\$58,095,833	\$24,992,474			
Balance at: 06/30/2019	\$1,407,757,647	\$1,031,177,580	\$376,580,067			

Sensitivity of the Net Pension Liability to Changes in the Discount Rate

	Discount Rate -1% 6.15%	Current Discount Rate 7.15%	Discount Rate + 1% 8.15%
Plan's Net Pension Liability/(Asset)	\$576,471,795	\$376,580,067	\$212,266,335

Pension Expense/(Income) for Measurement Period Ended June 30, 2019

Description	Amount
Service Cost	\$29,053,385
Interest on Total Pension Liability	94,760,263
Changes of Benefit Terms	0
Recognized Changes of Assumptions	18,982,005
Recognized Differences Between Expected and Actual Experience	6,615,418
Net Plan to Plan Resource Movement	(494)
Employee Contributions	(14,288,578)
Projected Earnings on Pension Plan Investments	(69,245,857)
Recognized Differences Between Projected and Actual Earnings on Plan Investments	12,008,043
Administrative Expense	694,412
Other Miscellaneous (Income)/Expense	(2,256)
Total Pension Expense/(Income)	\$78,576,341

Deferred Outflows and Deferred Inflows of Resources Related to Pensions

The following table presents deferred outflows and deferred inflows of resources related to pensions as of June 30, 2019. Note that no adjustments have been made for contributions subsequent to the measurement date. Appropriate treatment of any contributions made after the measurement date is the responsibility of the employer.

	Deferred Outflows of Resources	Deferred Inflows of Resources
Changes of Assumptions	\$0	\$(2,451,253)
Differences Between Expected and Actual Experience	10,641,768	0
Net Difference Between Projected and Actual Earnings on Pension Plan Investments	0	(5,074,463)
Total	\$10,641,768	\$(7,525,716)

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

Measurement Periods Ended June 30:	Deferred Outflows/(Inflows) of Resources
2020	\$7,619,703
2021	(4,079,216)
2022	(1,455,147)
2023	1,030,712
2024	0
Thereafter	0

Note: For employers with June 30 year-end, the fiscal year will be one year later than the measurement period. For example, the 2020 measurement period presented in the above table will be listed as year 2021 in the employer's fiscal year ending June 30, 2020 financial statements.

Expected Average Remaining Service Lifetime (EARSL)

The EARSL for the Plan for the measurement period ending June 30, 2019 is 2.9 years, which was obtained by dividing the total service years of 27,787 (the sum of remaining service lifetimes of the active employees) by 9,629 (the total number of participants: active, inactive, and retired). Inactive employees and retirees have remaining service lifetimes equal to 0. Total future service is based on the members' probability of decrementing due to an event other than receiving a cash refund.

Schedules of Required Supplementary Information

Schedule of Changes in Net Pension Liability and Related Ratios for the Measurement Periods Ended June 30

Measurement Period	2019	2018	2017	2016	2015
TOTAL PENSION LIABILITY:					
Service Cost	\$29,053,385	\$28,403,688	\$27,795,727	\$23,374,624	\$22,342,045
Interest on Total Pension Liability	94,760,263	89,060,339	84,334,185	79,514,856	74,834,991
Changes of Benefit Terms	0	0	0	0	0
Changes of Assumptions	0	(7,898,485)	75,969,675	0	(20,152,867)
Difference Between Expected and Actual					
Experience	12,969,987	6,909,054	(837,981)	(333,340)	(8,865,289)
Benefit Payments, Including Refunds of					
Employee Contributions	(53,695,328)	(48,383,999)	(42,304,813)	(37,980,223)	(34,390,309)
Net Change in Total Pension Liability	\$83,088,307	\$68,090,597	\$144,956,793	\$64,575,917	\$33,768,571
Total Pension Liability – Beginning	1,324,669,340	1,256,578,743	1,111,621,950	1,047,046,033	1,013,277,462
Total Pension Liability – Ending (a)	\$1,407,757,647	\$1,324,669,340	\$1,256,578,743	\$1,111,621,950	\$1,047,046,033
PLAN FIDUCIARY NET POSITION					
Contributions – Employer	\$34,101,948	\$29,514,351	\$28,719,315	\$25,962,718	\$22,826,829
Contributions – Employee	14,288,578	12,633,667	12,190,145	11,991,032	11,302,316
Net Investment Income	64,092,297	76,765,652	91,481,199	4,260,663	18,046,623
Benefit Payments, Including Refunds of					
Employee Contributions	(53,695,328)	(48,383,999)	(42,304,813)	(37,980,223)	(34,390,309)
Net Plan to Plan Resource Movement	494	(1,746)	73,647	530,976	(3,066,289)
Administrative Expense	(694,412)	(1,412,810)	(1,207,275)	(495,742)	(921,940)
Other Miscellaneous Income/(Expense) ¹	2,256	(2,682,950)	0	0	0
Net Change in Fiduciary Net Position	\$58,095,833	\$66,432,165	\$88,952,218	\$4,269,424	\$13,797,230
Plan Fiduciary Net Position – Beginning ²	\$973,081,747	\$906,649,582	\$817,697,364	\$813,427,940	\$799,630,710
Plan Fiduciary Net Position – Ending (b)	1,031,177,580	973,081,747	906,649,582	817,697,364	813,427,940
Plan Net Pension Liability/(Asset) – (a)-(b)	\$376,580,067	\$351,587,593	\$349,929,161	\$293,924,586	\$233,618,093
Plan Fiduciary Net Position as a Percentage					
of the Total Pension Liability	73.25%	73.46%	72.15%	73.56%	77.69%
Covered Payroll ³	\$185,822,739	\$181,331,004	\$176,795,109	\$166,402,958	\$157,449,221
Plan Net Pension Liability/(Asset) as a					
Percentage of Covered-Employee Payroll	202.66%	193.89%	197.93%	176.63%	148.38%

¹ During Fiscal Year 2017-18, as a result of Governmental Accounting Standards Board Statement (GASB) No. 75, Accounting and Financial Reporting for Postemployment Benefit Plans Other than Pensions (GASB 75), CalPERS reported its proportionate share of activity related to postemployment benefits for participation in the State of California's agent OPEB plan. Accordingly, CalPERS recorded a one-time expense as a result of the adoption of GASB 75.

Additionally, CalPERS employees participate in various State of California agent pension plans and during Fiscal Year 2017-18, CalPERS recorded a correction to previously reported financial statements to properly reflect its proportionate share of activity related to pensions in accordance with GASB Statement No. 68, Accounting and Financial Reporting for Pensions (GASB 68).

² Includes any beginning of year adjustment.

³ Includes one year's payroll growth using 2.75 percent payroll growth assumption for fiscal years ended June 30, 2018-19; 3.00 percent payroll growth assumption for fiscal years ended June 30, 2014-17.

Schedules of Required Supplementary Information (continued)

Measurement Period	2014	
TOTAL PENSION LIABILITY:		
Service Cost	\$23,109,946	
Interest on Total Pension Liability	70,942,490	
Changes of Benefit Terms	0	
Changes of Assumptions	0	
Difference Between Expected and Actual		
Experience	0	
Benefit Payments, Including Refunds of		
Employee Contributions	(30,239,753)	
Net Change in Total Pension Liability	\$63,812,683	
Total Pension Liability – Beginning	949,464,779	
Total Pension Liability – Ending (a)	\$1,013,277,462	
PLAN FIDUCIARY NET POSITION		
Contributions – Employer	\$21,613,131	
Contributions – Employee	11,670,231	
Net Investment Income	118,325,674	
Benefit Payments, Including Refunds of		
Employee Contributions	(30,239,753)	
Net Plan to Plan Resource Movement	0	
Administrative Expense	0	
Other Miscellaneous Income/(Expense) ¹	0	
Net Change in Fiduciary Net Position	\$121,369,283	
Plan Fiduciary Net Position – Beginning ²	\$678,261,427	
Plan Fiduciary Net Position – Ending (b)	799,630,710	
Plan Net Pension Liability/(Asset) – (a)-(b)	\$213,646,752	
Plan Fiduciary Net Position as a Percentage		
of the Total Pension Liability	78.92%	
Covered Payroll ³	\$156,032,311	
Plan Net Pension Liability/(Asset) as a		
Percentage of Covered-Employee Payroll	136.92%	

¹ During Fiscal Year 2017-18, as a result of Governmental Accounting Standards Board Statement (GASB) No. 75, Accounting and Financial Reporting for Postemployment Benefit Plans Other than Pensions (GASB 75), CalPERS reported its proportionate share of activity related to postemployment benefits for participation in the State of California's agent OPEB plan. Accordingly, CalPERS recorded a one-time expense as a result of the adoption of GASB 75.

Additionally, CalPERS employees participate in various State of California agent pension plans and during Fiscal Year 2017-18, CalPERS recorded a correction to previously reported financial statements to properly reflect its proportionate share of activity related to pensions in accordance with GASB Statement No. 68, Accounting and Financial Reporting for Pensions (GASB 68).

² Includes any beginning of year adjustment.

³ Includes one year's payroll growth using 2.75 percent payroll growth assumption for fiscal years ended June 30, 2018-19; 3.00 percent payroll growth assumption for fiscal years ended June 30, 2014-17.

Schedules of Required Supplementary Information (continued)

Notes to Schedule of Changes in Net Pension Liability and Related Ratios:

Benefit Changes: The figures above do not include any liability impact that may have resulted from plan changes which occurred after the June 30, 2018 valuation date. This applies for voluntary benefit changes as well as any offers of Two Years Additional Service Credit (a.k.a. Golden Handshakes).

Changes of Assumptions: None in 2019. In 2018, demographic assumptions and inflation rate were changed in accordance to the CalPERS Experience Study and Review of Assumptions December 2017. There were no changes in the discount rate. In 2017, the discount rate was reduced from 7.65 percent to 7.15 percent. In 2016, there were no changes. In 2015, amounts reported reflect an adjustment of the discount rate from 7.5 percent (net of administrative expense) to 7.65 percent (without a reduction for pension plan administrative expense). In 2014, amounts reported were based on the 7.5 percent discount rate.

Schedule of Plan Contributions for the Fiscal Years Ended June 30¹

Employer Fiscal Year End	2019	2018	2017	2016	2015	2014
Actuarially Determined Contribution ²	\$34,101,948	\$29,514,351	\$28,719,315	\$25,962,718	\$22,826,829	\$21,613,131
Contributions in Relation to the Actuarially Determined Contribution ²	(34,101,948)	(29,514,351)	(28,719,315)	(25,962,718)	(22,826,829)	(21,613,131)
Contribution Deficiency (Excess)	\$0	\$0	\$0	\$0	\$0	\$0
Covered Payroll ³	\$185,822,739	\$181,331,004	\$176,795,109	\$166,402,958	\$157,449,221	\$156,032,311
Contributions as a Percentage of Covered Payroll ³	18.35%	16.28%	16.24%	15.60%	14.50%	13.85%

¹ As prescribed in GASB 68, paragraph 46, the information presented in the Schedule of Plan Contributions should also be presented as of the employer's most recent fiscal year-end. The employer is responsible for determining this information as prescribed by the standard as this data is not available to CalPERS.

² Employers are assumed to make contributions equal to the actuarially determined contributions. However, some employers may choose to make additional contributions towards their unfunded liability. Employer contributions for such plans exceed the actuarially determined contributions.

³ Includes one year's payroll growth using 2.75 percent payroll growth assumption for fiscal years ended June 30, 2018-19; 3.00 percent payroll growth assumption for fiscal years ended June 30, 2014-17.

Notes to Schedule of Plan Contributions:

The actuarial methods and assumptions used to set the actuarially determined contributions for Fiscal Year 2018-19 were derived from the June 30, 2016 funding valuation report.

Actuarial Cost Method	Entry Age Normal
Amortization Method/Period	For details, see June 30, 2016 Funding Valuation Report.
Asset Valuation Method	Fair Value of Assets. For details, see June 30, 2016 Funding Valuation Report.
Inflation	2.75%
Salary Increases	Varies by Entry Age and Service
Payroll Growth	3.0%
Investment Rate of Return	7.375% Net of Pension Plan Investment and Administrative Expenses; includes Inflation.
Retirement Age	The probabilities of Retirement are based on the 2014 CalPERS Experience Study for the period from 1997 to 2011.
Mortality	The probabilities of mortality are based on the 2014 CalPERS Experience Study for the period from 1997 to 2011. Pre-retirement and Post-retirement mortality rates include 20 years of projected mortality improvement using Scale BB published by the Society of Actuaries.

Other Information:

For changes to previous years' information, refer to past GASB 68 reports.

Appendices

- Appendix A Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions
- Appendix B Interest and Total Projected Earnings

Appendix A

Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions

- Schedule of Changes of Assumptions
- Deferred Outflows of Resources and Deferred Inflows of Resources Arising From Changes of Assumptions
- Schedule of Differences Between Expected and Actual Experience
- Deferred Outflows of Resources and Deferred Inflows of Resources Arising From Differences Between Expected and Actual Experience
- Schedule of Differences Between Projected and Actual Earnings on Pension Plan Investments
- Deferred Outflows of Resources and Deferred Inflows of Resources Arising From Differences Between Projected and Actual Earnings on Pension Plan Investments
- Summary of Recognized Deferred Outflows of Resources and Deferred Inflows of Resources

Schedule of Changes of Assumptions

			Effects of Changes of Assumptions						
Measurement Date	Changes of Assumptions		2019	2020	2021	2022	2023	2024	Thereafter
2014	\$0	0.0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2015	(20,152,867)	0.0	0	0	0	0	0	0	0
2016	0	0.0	0	0	0	0	0	0	0
2017	75,969,675	0.8	21,705,621	0	0	0	0	0	0
2018	(7,898,485)	1.9	(2,723,616)	(2,451,253)	0	0	0	0	0
2019	0	0.0	0	0	0	0	0	0	0
Net Increase (D	ecrease) in Pens	ion Expense	\$18,982,005	\$(2,451,253)	\$0	\$0	\$0	\$0	\$0

				Balances at J	une 30, 2019
Measurement Date 2014 2015	Increase in Total Pension Liability (a)	Decrease in Total Pension Liability (b)	Amounts Recognized in Pension Expense Through June 30, 2019 (c)	Deferred Outflows of Resources (a) – (c)	Deferred Inflows of Resources (b) – (c)
2014	\$0	\$0	\$0	\$0	\$0
2015	0	(20,152,867)	(20,152,867)	0	0
2016	0	0	0	0	0
2017	75,969,675	0	75,969,675	0	0
2018	0	(7,898,485)	(5,447,232)	0	(2,451,253)
2019	0	0	0	0	0
				\$0	\$(2,451,253)

Deferred Outflows of Resources and Deferred Inflows of Resources Arising From Changes of Assumptions

Schedule of Differences Between Expected and Actual Experience

			Differences Between Expected and Actual Experience								
Measurement Date		Remaining Recognition Period (Years)	2019	2020	2021	2022	2023	2024	Thereafter		
2014	\$0	0.0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
2015	(8,865,289)	0.0	0	0	0	0	0	0	0		
2016	(333,340)	0.0	0	0	0	0	0	0	0		
2017	(837,981)	0.8	(239,423)	0	0	0	0	0	0		
2018	6,909,054	1.9	2,382,432	2,144,190	0	0	0	0	0		
2019	12,969,987	2.9	4,472,409	4,472,409	4,025,169	0	0	0	0		
Net Increase (Decrease) in Pensio	n Expense	\$6,615,418	\$6,616,599	\$4,025,169	\$0	\$0	\$0	\$0		

Increase (Decrease) in Pension Expense Arising From the Recognition of the Effects of Differences Between Expected and Actual Experience

				Balances at J	une 30, 2019
Measurement Date	Experience Losses (a)	Experience Gains (b)	Amounts Recognized in Pension Expense Through June 30, 2019 (c)	Deferred Outflows of Resources (a) – (c)	Deferred Inflows of Resources (b) – (c)
2014	\$0	\$0	\$0	\$0	\$0
2015	0	(8,865,289)	(8,865,289)	0	0
2016	0	(333,340)	(333,340)	0	0
2017	0	(837,981)	(837,981)	0	0
2018	6,909,054	0	4,764,864	2,144,190	0
2019	12,969,987	0	4,472,409	8,497,578	0
				\$10,641,768	\$0

Schedule of Differences Between Projected and Actual Earnings on Pension Plan Investments

					use) in Pension Expe In Projected and Act				
Measurement Date	Differences Between Projected and Actual Earnings on Pension Plan Investments	Remaining Recognition Period (Years)	2019	2020	2021	2022	2023	2024	Thereafter
2014	\$(67,539,546)	<i>(</i>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2015	42,768,440	1.0	8,553,688	0	0	0	0	0	0
2016	57,793,697	2.0	11,558,739	11,558,741	0	0	0	0	0
2017	(33,246,191)	3.0	(6,649,238)	(6,649,238)	(6,649,239)	0	0	0	0
2018	(12,429,291)	4.0	(2,485,858)	(2,485,858)	(2,485,858)	(2,485,859)	0	0	0
2019	5,153,560	5.0	1,030,712	1,030,712	1,030,712	1,030,712	1,030,712	0	0
Net Increase (Decrease) in Pension Expense \$12			\$12,008,043	\$3,454,357	\$(8,104,385)	\$(1,455,147)	\$1,030,712	\$0	\$0

Deferred Outflows of Resources and Deferred Inflows of Resources Arising From Differences Between Projected and Actual Earnings on Pension Plan Investments

				Balances at Ju	ıne 30, 2019
Measurement Date	Investment Earnings Less Than Projected (a)	Investment Earnings Greater Than Projected (b)	Amounts Recognized in Pension Expense Through June 30, 2019 (c)	Deferred Outflows of Resources (d) = (a) – (c)	Deferred Inflows of Resources (e) = (b) – (c)
2014	\$0	\$(67,539,546)	\$(67,539,546)	\$0	\$0
2015	42,768,440	0	42,768,440	0	0
2016	57,793,697	0	46,234,956	11,558,741	0
2017	0	(33,246,191)	(19,947,714)	0	(13,298,477)
2018	0	(12,429,291)	(4,971,716)	0	(7,457,575)
2019	5,153,560	0	1,030,712	4,122,848	0
				\$15,681,589	\$(20,756,052)
				Net Deferred Outflows/	(Inflows) of Resources

Net Deferred Outflows/(Inflows) of Resources

(d) + (e)

\$(5,074,463)

Note: GASB 68 paragraph 33 requires that deferred outflows of resources and deferred inflows of resources arising from differences between projected and actual pension plan investment earnings in different measurement periods should be aggregated and reported as a net deferred outflow or inflow.

Summary of Recognized Deferred Outflows of Resources and Deferred Inflows of Resources

	Net Increase (Decrease) in Pension Expense						
	2019	2020	2021	2022	2023	2024	Thereafter
Changes of Assumptions Differences Between Expected and Actual	\$18,982,005	\$(2,451,253)	\$0	\$0	\$0	\$0	\$0
Experience Net Differences Between Projected and Actual Earnings on Pension Plan	6,615,418	6,616,599	4,025,169	0	0	0	0
Investments	12,008,043	3,454,357	(8,104,385)	(1,455,147)	1,030,712	0	0
Grand Total	\$37,605,466	\$7,619,703	\$(4,079,216)	\$(1,455,147)	\$1,030,712	\$0	\$0

Appendix B

Interest and Total Projected Earnings

• Interest on Total Pension Liability and Total Projected Earnings

Interest on Total Pension Liability and Total Projected Earnings

Interest on Total Pension Liability	Amount for Period (a)	Portion of Period (b)	Interest Rate (c)	Interest on the Total Pension Liability (a) X (b) X (c)
Beginning Total Pension Liability	\$1,324,669,340	100%	7.15%	\$94,713,858
Changes of Benefit Terms	0	100%	7.15%	0
Changes of Assumptions	0	100%	7.15%	0
Difference Between Expected and Actual Experience	12,969,987	100%	7.15%	927,354
Service Cost	29,053,385	50%	7.15%	1,038,659
Benefit Payments, Including Refunds of Employee Contributions	(53,695,328)	50%	7.15%	(1,919,608)
Total Interest on Total Pension Liability				\$94,760,263

Projected Earnings on Pension Plan Investments	Amount for Period (a)	Portion of Period (b)	Projected Rate of Return (c)	Projected Earnings (a) X (b) X (c)
Beginning Plan Fiduciary Net Position Excluding Receivables ¹	\$971,493,795	100%	7.15%	\$69,461,806
Net Plan to Plan Resource Movement	494	50%	7.15%	18
Employer Contributions	34,101,948	50%	7.15%	1,219,145
Employee Contributions ²	14,244,484	50%	7.15%	509,240
Benefit Payments, Including Refunds of Employee Contributions	(53,695,328)	50%	7.15%	(1,919,608)
Administrative Expense	(694,412)	50%	7.15%	(24,825)
Other Miscellaneous Income/(Expense)	2,256	50%	7.15%	81
Total Projected Earnings				\$69,245,857

¹ Includes any beginning of year adjustment. Contribution receivables for employee service buybacks, totaling \$1,587,952 as of June 30, 2018, were excluded for purposes of calculating projected earnings on pension plan investments.

² The increase/(decrease) in contribution receivables for employee service buybacks, totaling \$44,094 during the fiscal year 2018-19, were excluded for purposes of calculating projected earnings on pension plan investments.

Exhibit F



GASB 68 Accounting Report

CalPERS ID: 7903930500 Valuation Rate Plan Identifier: 1210

Prepared for City of Sacramento Safety Plan, an Agent Multiple-Employer Defined Benefit Pension Plan

Measurement Date of June 30, 2019

Table of Contents

Actuarial Certification	3
Introduction	4
Changes in Net Pension Liability	5
Pension Expense/(Income) for the Measurement Period Ended June 30, 2019	6
Deferred Outflows and Deferred Inflows of Resources Related to Pensions	7
Schedules of Required Supplementary Information	8

Appendix A – Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions

Schedule of Changes of Assumptions	A-1
Deferred Outflows of Resources and Deferred Inflows of Resources Arising From Changes of Assumptions	A-2
Schedule of Differences Between Expected and Actual Experience	A-3
Deferred Outflows of Resources and Deferred Inflows of Resources Arising From Differences Between Expected and Actual Experience	A-4
Schedule of Differences Between Projected and Actual Earnings on Pension Plan Investments	A-5
Deferred Outflows of Resources and Deferred Inflows of Resources Arising From Differences Between Projected and Actual Earnings on Pension Plan Investments	A-6
Summary of Recognized Deferred Outflows of Resources and Deferred Inflows of Resources	A-7

Appendix B – Interest and Total Projected Earnings

Interest on Total Pension Liability and Total Projected Earnings B-1

Actuarial Certification

This report provides disclosure and reporting information as required under Governmental Accounting Standards Board Statement 68 (GASB 68) for the Safety Plan of the City of Sacramento (the "Plan"), an Agent Multiple-Employer Defined Benefit Pension Plan participating in the California Public Employees' Retirement System (CalPERS), for the measurement period ended June 30, 2019.

This report is to be viewed solely for the purpose of financial accounting requirements. Any usage of the contents provided in this report for purposes other than financial accounting requirements would be inappropriate.

This accounting report relies on liabilities and related validation work performed by the CalPERS Actuarial Office as part of the June 30, 2018 annual funding valuation for the Plan. The census data and benefit provisions underlying the liabilities were prepared as of June 30, 2018 and certified as part of the annual funding valuation by the CalPERS Actuarial Office. The June 30, 2018 liabilities, which were rolled forward to June 30, 2019 and used for this accounting report, are based on actuarial assumptions adopted by the CalPERS Board of Administration and consistent with the requirements of GASB 68. The assumptions and methods are internally consistent and reasonable for this Plan. The asset information used in this accounting report is provided by the CalPERS Financial Office.

With the provided liability and asset information, the total pension liability, net pension liability, deferred inflows and outflows and pension expense were developed for the measurement period using standard actuarial techniques.

The undersigned is an actuary for CalPERS, who is a member of the American Academy of Actuaries and the Society of Actuaries and meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

Mushmm

MAY SHUANG YU, ASA, MAAA Senior Pension Actuary, CalPERS

Introduction

This is the GASB 68 accounting report for the measurement date June 30, 2019. Notes to the Agent Multiple-Employer Defined Benefit Pension Plan GASB 68 accounting reports are in a separate document, which may be accessed on the CalPERS website at www.calpers.ca.gov.

GASB 68 requires that the reported results must pertain to liability and asset information within certain defined timeframes. For this report, the following timeframes are used.

Valuation Date	June 30, 2018
Measurement Date	June 30, 2019
Measurement Period	July 1, 2018 to June 30, 2019

Pension Plan Fiduciary Net Position

The plan fiduciary net position disclosed in your GASB 68 accounting report may differ from the plan assets reported in your funding actuarial valuation report due to several reasons. For example, for the accounting reports, CalPERS must keep items such as deficiency reserves and fiduciary self-insurance included as assets. These amounts are excluded for rate setting purposes in your funding actuarial valuation.

Changes in the Net Pension Liability

The following table shows the changes in net pension liability recognized over the measurement period.

		Increase (Decrease)	
	Total Pension Liability (a)	Plan Fiduciary Net Position (b)	Net Pension Liability/(Asset) (c) = (a) - (b)
Balance at: 06/30/2018	\$1,894,856,283	\$1,312,585,059	\$582,271,224
Beginning of Year Adjustment	\$0	\$0	\$0
Adjusted Balance at: 06/30/2018	\$1,894,856,283	\$1,312,585,059	\$582,271,224
Changes Recognized for the Measurement Period:			
Service Cost	40,221,149		40,221,149
Interest on Total Pension Liability	136,322,857		136,322,857
Changes of Benefit Terms	0		0
Changes of Assumptions	0		0
Differences Between Expected and Actual Experience	35,990,497		35,990,497
Net Plan to Plan Resource Movement		(494)	494
Contributions – Employer		49,875,203	(49,875,203)
Contributions – Employees		22,751,971	(22,751,971)
Net Investment Income		86,281,951	(86,281,951)
Benefit Payments, Including Refunds of Employee Contributions	(88,687,941)	(88,687,941)	0
Administrative Expense		(936,689)	936,689
Other Miscellaneous Income/(Expense)		3,046	(3,046)
Net Changes During 2018-19	\$123,846,562	\$69,287,047	\$54,559,515
Balance at: 06/30/2019	\$2,018,702,845	\$1,381,872,106	\$636,830,739

Sensitivity of the Net Pension Liability to Changes in the Discount Rate

	Discount Rate -1%	Current Discount Rate	Discount Rate + 1%
	6.15%	7.15%	8.15%
Plan's Net Pension Liability/(Asset)	\$921,141,390	\$636,830,739	\$404,226,136

Pension Expense/(Income) for Measurement Period Ended June 30, 2019

Description	Amount
Service Cost	\$40,221,149
Interest on Total Pension Liability	136,322,857
Changes of Benefit Terms	0
Recognized Changes of Assumptions	11,547,194
Recognized Differences Between Expected and Actual Experience	7,477,776
Net Plan to Plan Resource Movement	494
Employee Contributions	(22,751,971)
Projected Earnings on Pension Plan Investments	(93,156,066)
Recognized Differences Between Projected and Actual Earnings on Plan Investments	17,266,536
Administrative Expense	936,689
Other Miscellaneous (Income)/Expense	(3,046)
Total Pension Expense/(Income)	\$97,861,612

Deferred Outflows and Deferred Inflows of Resources Related to Pensions

The following table presents deferred outflows and deferred inflows of resources related to pensions as of June 30, 2019. Note that no adjustments have been made for contributions subsequent to the measurement date. Appropriate treatment of any contributions made after the measurement date is the responsibility of the employer.

	Deferred Outflows of Resources	Deferred Inflows of Resources
Changes of Assumptions	\$46,453,953	\$(12,354,499)
Differences Between Expected and Actual Experience	34,853,770	(6,580,500)
Net Difference Between Projected and Actual Earnings on Pension Plan Investments	0	(6,959,369)
Total	\$81,307,723	\$(25,894,368)

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

Measurement Periods Ended June 30:	Deferred Outflows/(Inflows) of Resources
2020	\$27,935,295
2021	11,049,029
2022	7,500,833
2023	7,543,946
2024	1,384,252
Thereafter	0

Note: For employers with June 30 year-end, the fiscal year will be one year later than the measurement period. For example, the 2020 measurement period presented in the above table will be listed as year 2021 in the employer's fiscal year ending June 30, 2020 financial statements.

Expected Average Remaining Service Lifetime (EARSL)

The EARSL for the Plan for the measurement period ending June 30, 2019 is 5.2 years, which was obtained by dividing the total service years of 15,420 (the sum of remaining service lifetimes of the active employees) by 2,957 (the total number of participants: active, inactive, and retired). Inactive employees and retirees have remaining service lifetimes equal to 0. Total future service is based on the members' probability of decrementing due to an event other than receiving a cash refund.

Schedules of Required Supplementary Information

Schedule of Changes in Net Pension Liability and Related Ratios for the Measurement Periods Ended June 30

Measurement Period	2019	2018	2017	2016	2015
TOTAL PENSION LIABILITY:					
Service Cost	\$40,221,149	\$38,385,859	\$37,372,520	\$31,672,063	\$29,653,042
Interest on Total Pension Liability	136,322,857	127,930,127	123,131,887	118,821,553	112,331,793
Changes of Benefit Terms	0	0	0	0	0
Changes of Assumptions	0	(17,241,688)	107,046,066	0	(28,604,249)
Difference Between Expected and Actual					
Experience	35,990,497	3,954,107	(15,086,475)	14,397,639	(592,555)
Benefit Payments, Including Refunds of					
Employee Contributions	(88,687,941)	(82,998,648)	(78,231,814)	(74,572,323)	(70,544,699)
Net Change in Total Pension Liability	\$123,846,562	\$70,029,757	\$174,232,184	\$90,318,932	\$42,243,332
Total Pension Liability – Beginning	1,894,856,283	1,824,826,526	1,650,594,342	1,560,275,410	1,518,032,078
Total Pension Liability – Ending (a)	\$2,018,702,845	\$1,894,856,283	\$1,824,826,526	\$1,650,594,342	\$1,560,275,410
PLAN FIDUCIARY NET POSITION					
Contributions – Employer	\$49,875,203	\$41,588,489	\$40,608,891	\$36,000,897	\$30,798,271
Contributions – Employee	22,751,971	21,563,568	18,980,493	18,465,310	15,564,873
Net Investment Income	86,281,951	104,660,890	125,585,855	4,971,102	25,341,704
Benefit Payments, Including Refunds of					
Employee Contributions	(88,687,941)	(82,998,648)	(78,231,814)	(74,572,323)	(70,544,699)
Net Plan to Plan Resource Movement	(494)	(3,555)	(73,647)	(340)	533
Administrative Expense	(936,689)	(1,921,893)	(1,665,625)	(697,193)	(1,287,544)
Other Miscellaneous Income/(Expense) ¹	3,046	(3,649,707)	0	0	0
Net Change in Fiduciary Net Position	\$69,287,047	\$79,239,144	\$105,204,153	\$(15,832,547)	\$(126,862)
Plan Fiduciary Net Position – Beginning ²	\$1,312,585,059	\$1,233,345,915	\$1,128,141,762	\$1,143,974,309	\$1,144,101,171
Plan Fiduciary Net Position – Ending (b)	1,381,872,106	1,312,585,059	1,233,345,915	1,128,141,762	1,143,974,309
Plan Net Pension Liability/(Asset) – (a)-(b)	\$636,830,739	\$582,271,224	\$591,480,611	\$522,452,580	\$416,301,101
Plan Fiduciary Net Position as a Percentage					
of the Total Pension Liability	68.45%	69.27%	67.59%	68.35%	73.32%
Covered Payroll ³	\$138,717,533	\$132,205,472	\$126,437,920	\$120,120,082	\$112,067,431
Plan Net Pension Liability/(Asset) as a					
Percentage of Covered-Employee Payroll	459.08%	440.43%	467.80%	434.94%	371.47%

¹ During Fiscal Year 2017-18, as a result of Governmental Accounting Standards Board Statement (GASB) No. 75, Accounting and Financial Reporting for Postemployment Benefit Plans Other than Pensions (GASB 75), CalPERS reported its proportionate share of activity related to postemployment benefits for participation in the State of California's agent OPEB plan. Accordingly, CalPERS recorded a one-time expense as a result of the adoption of GASB 75.

Additionally, CalPERS employees participate in various State of California agent pension plans and during Fiscal Year 2017-18, CalPERS recorded a correction to previously reported financial statements to properly reflect its proportionate share of activity related to pensions in accordance with GASB Statement No. 68, Accounting and Financial Reporting for Pensions (GASB 68).

² Includes any beginning of year adjustment.

³ Includes one year's payroll growth using 2.75 percent payroll growth assumption for fiscal years ended June 30, 2018-19; 3.00 percent payroll growth assumption for fiscal years ended June 30, 2014-17.

Schedules of Required Supplementary Information (continued)

Measurement Period	2014	
TOTAL PENSION LIABILITY:		
Service Cost	\$29,538,887	
Interest on Total Pension Liability	107,188,618	
Changes of Benefit Terms	0	
Changes of Assumptions	0	
Difference Between Expected and Actual		
Experience	0	
Benefit Payments, Including Refunds of		
Employee Contributions	(66,215,114)	
Net Change in Total Pension Liability	\$70,512,391	
Total Pension Liability – Beginning	1,447,519,687	
Total Pension Liability – Ending (a)	\$1,518,032,078	
PLAN FIDUCIARY NET POSITION		
Contributions – Employer	\$27,934,662	
Contributions – Employee	16,094,362	
Net Investment Income	171,794,710	
Benefit Payments, Including Refunds of		
Employee Contributions	(66,215,114)	
Net Plan to Plan Resource Movement	0	
Administrative Expense	0	
Other Miscellaneous Income/(Expense) ¹	0	
Net Change in Fiduciary Net Position	\$149,608,620	
Plan Fiduciary Net Position – Beginning ²	\$994,492,551	
Plan Fiduciary Net Position – Ending (b)	1,144,101,171	
Plan Net Pension Liability/(Asset) – (a)-(b)	\$373,930,907	
Plan Fiduciary Net Position as a Percentage		
of the Total Pension Liability	75.37%	
Covered Payroll ³	\$107,176,397	
Plan Net Pension Liability/(Asset) as a		
Percentage of Covered-Employee Payroll	348.89%	

¹ During Fiscal Year 2017-18, as a result of Governmental Accounting Standards Board Statement (GASB) No. 75, Accounting and Financial Reporting for Postemployment Benefit Plans Other than Pensions (GASB 75), CalPERS reported its proportionate share of activity related to postemployment benefits for participation in the State of California's agent OPEB plan. Accordingly, CalPERS recorded a one-time expense as a result of the adoption of GASB 75.

Additionally, CalPERS employees participate in various State of California agent pension plans and during Fiscal Year 2017-18, CalPERS recorded a correction to previously reported financial statements to properly reflect its proportionate share of activity related to pensions in accordance with GASB Statement No. 68, Accounting and Financial Reporting for Pensions (GASB 68).

² Includes any beginning of year adjustment.

³ Includes one year's payroll growth using 2.75 percent payroll growth assumption for fiscal years ended June 30, 2018-19; 3.00 percent payroll growth assumption for fiscal years ended June 30, 2014-17.

Schedules of Required Supplementary Information (continued)

Notes to Schedule of Changes in Net Pension Liability and Related Ratios:

Benefit Changes: The figures above do not include any liability impact that may have resulted from plan changes which occurred after the June 30, 2018 valuation date. This applies for voluntary benefit changes as well as any offers of Two Years Additional Service Credit (a.k.a. Golden Handshakes).

Changes of Assumptions: None in 2019. In 2018, demographic assumptions and inflation rate were changed in accordance to the CalPERS Experience Study and Review of Assumptions December 2017. There were no changes in the discount rate. In 2017, the discount rate was reduced from 7.65 percent to 7.15 percent. In 2016, there were no changes. In 2015, amounts reported reflect an adjustment of the discount rate from 7.5 percent (net of administrative expense) to 7.65 percent (without a reduction for pension plan administrative expense). In 2014, amounts reported were based on the 7.5 percent discount rate.

Schedule of Plan Contributions for the Fiscal Years Ended June 30¹

Employer Fiscal Year End	2019	2018	2017	2016	2015	2014
Actuarially Determined Contribution ²	\$49,875,203	\$41,588,489	\$40,608,891	\$36,000,897	\$30,798,271	\$27,934,662
Contributions in Relation to the Actuarially Determined Contribution ²	(49,875,203)	(41,588,489)	(40,608,891)	(36,000,897)	(30,798,271)	(27,934,662)
Contribution Deficiency (Excess)	\$0	\$0	\$0	\$0	\$0	\$0
Covered Payroll ³	\$138,717,533	\$132,205,472	\$126,437,920	\$120,120,082	\$112,067,431	\$107,176,397
Contributions as a Percentage of Covered Payroll ³	35.95%	31.46%	32.12%	29.97%	27.48%	26.06%

¹ As prescribed in GASB 68, paragraph 46, the information presented in the Schedule of Plan Contributions should also be presented as of the employer's most recent fiscal year-end. The employer is responsible for determining this information as prescribed by the standard as this data is not available to CalPERS.

² Employers are assumed to make contributions equal to the actuarially determined contributions. However, some employers may choose to make additional contributions towards their unfunded liability. Employer contributions for such plans exceed the actuarially determined contributions.

³ Includes one year's payroll growth using 2.75 percent payroll growth assumption for fiscal years ended June 30, 2018-19; 3.00 percent payroll growth assumption for fiscal years ended June 30, 2014-17.

Notes to Schedule of Plan Contributions:

The actuarial methods and assumptions used to set the actuarially determined contributions for Fiscal Year 2018-19 were derived from the June 30, 2016 funding valuation report.

Actuarial Cost Method	Entry Age Normal
Amortization Method/Period	For details, see June 30, 2016 Funding Valuation Report.
Asset Valuation Method	Fair Value of Assets. For details, see June 30, 2016 Funding Valuation Report.
Inflation	2.75%
Salary Increases	Varies by Entry Age and Service
Payroll Growth	3.0%
Investment Rate of Return	7.375% Net of Pension Plan Investment and Administrative Expenses; includes Inflation.
Retirement Age	The probabilities of Retirement are based on the 2014 CalPERS Experience Study for the period from 1997 to 2011.
Mortality	The probabilities of mortality are based on the 2014 CalPERS Experience Study for the period from 1997 to 2011. Pre-retirement and Post-retirement mortality rates include 20 years of projected mortality improvement using Scale BB published by the Society of Actuaries.

Other Information:

For changes to previous years' information, refer to past GASB 68 reports.

Appendices

- Appendix A Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions
- Appendix B Interest and Total Projected Earnings

Appendix A

Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions

- Schedule of Changes of Assumptions
- Deferred Outflows of Resources and Deferred Inflows of Resources Arising From Changes of Assumptions
- Schedule of Differences Between Expected and Actual Experience
- Deferred Outflows of Resources and Deferred Inflows of Resources Arising From Differences Between Expected and Actual Experience
- Schedule of Differences Between Projected and Actual Earnings on Pension Plan Investments
- Deferred Outflows of Resources and Deferred Inflows of Resources Arising From Differences Between Projected and Actual Earnings on Pension Plan Investments
- Summary of Recognized Deferred Outflows of Resources and Deferred Inflows of Resources

Schedule of Changes of Assumptions

				Increase (Decrease) in Pension Expense Arising From the Recognition of the Effects of Changes of Assumptions					
Measurement Date	Changes of Assumptions	Remaining Recognition Period (Years)	2019	2020	2021	2022	2023	2024	Thereafter
2014	\$0	0.0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2015	(28,604,249)	1.3	(5,397,028)	(1,619,109)	0	0	0	0	0
2016	0	0.0	0	0	0	0	0	0	0
2017	107,046,066	3.3	20,197,371	20,197,371	20,197,371	6,059,211	0	0	0
2018	(17,241,688)	4.3	(3,253,149)	(3,253,149)	(3,253,149)	(3,253,149)	(975,943)	0	0
2019	0	0.0	0	0	0	0	0	0	0
Net Increase (D	ecrease) in Pens	ion Expense	\$11,547,194	\$15,325,113	\$16,944,222	\$2,806,062	\$(975,943)	\$0	\$0

				Balances at June 30, 2019		
Measurement Date	Increase in Total Pension Liability (a)	Decrease in Total Pension Liability (b)	Amounts Recognized in Pension Expense Through June 30, 2019 (c)	Deferred Outflows of Resources (a) – (c)	Deferred Inflows of Resources (b) – (c)	
2014	\$0	\$0	\$0	\$0	\$0	
2015	0	(28,604,249)	(26,985,140)	0	(1,619,109)	
2016	0	0	0	0	0	
2017	107,046,066	0	60,592,113	46,453,953	0	
2018	0	(17,241,688)	(6,506,298)	0	(10,735,390)	
2019	0	0	0	0	0	
				\$46,453,953	\$(12,354,499)	

Deferred Outflows of Resources and Deferred Inflows of Resources Arising From Changes of Assumptions

Schedule of Differences Between Expected and Actual Experience

				•	ifferences Between	-	-	le Effects of	
Measurement Date	Differences Between Expected and Actual Experience	Remaining Recognition Period (Years)	2019	2020	2021	2022	2023	2024	Thereafter
2014	\$0	0.0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2015	(592,555)	1.3	(111,803)	(33,540)	0	0	0	0	0
2016	14,397,639	2.2	2,768,777	2,768,777	553,754	0	0	0	0
2017	(15,086,475)	3.3	(2,846,505)	(2,846,505)	(2,846,505)	(853,950)	0	0	0
2018	3,954,107	4.3	746,058	746,058	746,058	746,058	223,817	0	0
2019	35,990,497	5.2	6,921,249	6,921,249	6,921,249	6,921,249	6,921,249	1,384,252	0
Net Increase ((Decrease) in Pensio	on Expense	\$7,477,776	\$7,556,039	\$5,374,556	\$6,813,357	\$7,145,066	\$1,384,252	\$0

				Balances at June 30, 2019		
Measurement Date	Experience Losses (a)	Experience Gains (b)	Amounts Recognized in Pension Expense Through June 30, 2019 (c)	Deferred Outflows of Resources (a) – (c)	Deferred Inflows of Resources (b) - (c)	
2014	\$0	\$0	\$0	\$0	\$0	
2015	0	(592,555)	(559,015)	0	(33,540)	
2016	14,397,639	0	11,075,108	3,322,531	0	
2017	0	(15,086,475)	(8,539,515)	0	(6,546,960)	
2018	3,954,107	0	1,492,116	2,461,991	0	
2019	35,990,497	0	6,921,249	29,069,248	0	
				\$34,853,770	\$(6,580,500)	

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

Schedule of Differences Between Projected and Actual Earnings on Pension Plan Investments

				Increase (Decrease) in Pension Expense Arising From the Recognition of the Differences Between Projected and Actual Earnings on Pension Plan Investments					
Measurement Date	Differences Between Projected and Actual Earnings on Pension Plan Investments	Remaining Recognition Period (Years)	2019	2020	2021	2022	2023	2024	Thereafter
2014	\$(98,188,251)	0.0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2015	61,061,962	1.0	12,212,394	0	0	0	0	0	0
2016	81,619,456	2.0	16,323,891	16,323,892	0	0	0	0	0
2017	(45,755,815)	3.0	(9,151,163)	(9,151,163)	(9,151,163)	0	0	0	0
2018	(17,467,045)	4.0	(3,493,409)	(3,493,409)	(3,493,409)	(3,493,409)	0	0	0
2019	6,874,115	5.0	1,374,823	1,374,823	1,374,823	1,374,823	1,374,823	0	0
Net Increase (D	Decrease) in Pensio	on Expense	\$17,266,536	\$5,054,143	\$(11,269,749)	\$(2,118,586)	\$1,374,823	\$0	\$0

Deferred Outflows of Resources and Deferred Inflows of Resources Arising From Differences Between Projected and Actual Earnings on Pension Plan Investments

	Balances at J			ıne 30, 2019	
Measurement Date	Investment Earnings Less Than Projected (a)	Investment Earnings Greater Than Projected (b)	Amounts Recognized in Pension Expense Through June 30, 2019 (c)	Deferred Outflows of Resources (d) = (a) – (c)	Deferred Inflows of Resources (e) = (b) – (c)
2014	\$0	\$(98,188,251)	\$(98,188,251)	\$0	\$0
2015	61,061,962	0	61,061,962	0	0
2016	81,619,456	0	65,295,564	16,323,892	0
2017	0	(45,755,815)	(27,453,489)	0	(18,302,326)
2018	0	(17,467,045)	(6,986,818)	0	(10,480,227)
2019	6,874,115	0	1,374,823	5,499,292	0
				\$21,823,184	\$(28,782,553)

Net Deferred Outflows/(Inflows) of Resources

(d) + (e)

\$(6,959,369)

Note: GASB 68 paragraph 33 requires that deferred outflows of resources and deferred inflows of resources arising from differences between projected and actual pension plan investment earnings in different measurement periods should be aggregated and reported as a net deferred outflow or inflow.

Summary of Recognized Deferred Outflows of Resources and Deferred Inflows of Resources

	Net Increase (Decrease) in Pension Expense						
	2019	2020	2021	2022	2023	2024	Thereafter
Changes of Assumptions Differences Between Expected and Actual	\$11,547,194	\$15,325,113	\$16,944,222	\$2,806,062	\$(975,943)	\$0	\$0
Experience Net Differences Between Projected and Actual Earnings on Pension Plan	7,477,776	7,556,039	5,374,556	6,813,357	7,145,066	1,384,252	0
Investments	17,266,536	5,054,143	(11,269,749)	(2,118,586)	1,374,823	0	0
Grand Total	\$36,291,506	\$27,935,295	\$11,049,029	\$7,500,833	\$7,543,946	\$1,384,252	\$0

Appendix B

Interest and Total Projected Earnings

• Interest on Total Pension Liability and Total Projected Earnings

Interest on Total Pension Liability and Total Projected Earnings

Interest on Total Pension Liability	Amount for Period (a)	Portion of Period (b)	Interest Rate (c)	Interest on the Total Pension Liability (a) X (b) X (c)
Beginning Total Pension Liability	\$1,894,856,283	100%	7.15%	\$135,482,224
Changes of Benefit Terms	0	100%	7.15%	0
Changes of Assumptions	0	100%	7.15%	0
Difference Between Expected and Actual Experience	35,990,497	100%	7.15%	2,573,321
Service Cost	40,221,149	50%	7.15%	1,437,906
Benefit Payments, Including Refunds of Employee Contributions	(88,687,941)	50%	7.15%	(3,170,594)
otal Interest on Total Pension Liability				\$136,322,857

Projected Earnings on Pension Plan Investments	Amount for Period (a)	Portion of Period (b)	Projected Rate of Return (c)	Projected Earnings (a) X (b) X (c)
Beginning Plan Fiduciary Net Position Excluding Receivables ¹	\$1,311,298,779	100%	7.15%	\$93,757,863
Net Plan to Plan Resource Movement	(494)	50%	7.15%	(18)
Employer Contributions	49,875,203	50%	7.15%	1,783,039
Employee Contributions ²	22,913,401	50%	7.15%	819,154
Benefit Payments, Including Refunds of Employee Contributions	(88,687,941)	50%	7.15%	(3,170,594)
Administrative Expense	(936,689)	50%	7.15%	(33,487)
Other Miscellaneous Income/(Expense)	3,046	50%	7.15%	109
Total Projected Earnings				\$93,156,066

¹ Includes any beginning of year adjustment. Contribution receivables for employee service buybacks, totaling \$1,286,280 as of June 30, 2018, were excluded for purposes of calculating projected earnings on pension plan investments.

² The increase/(decrease) in contribution receivables for employee service buybacks, totaling \$(161,430) during the fiscal year 2018-19, were excluded for purposes of calculating projected earnings on pension plan investments.

Exhibit G





City of Sacramento

Sacramento City Employees' Retirement System

June 30, 2020 Actuarial Valuation

December 3, 2020



ACTUARIAL VALUATION

CITY OF SACRAMENTO SACRAMENTO CITY EMPLOYEES' RETIREMENT SYSTEM (SCERS) DEFINED BENEFIT PLAN

We are pleased to present the results of our June 30, 2020 actuarial valuation of the Sacramento City Employees' Retirement System (SCERS).

The purpose of this valuation is to:

- Determine the System's June 30, 2020 Funded Status, and
- Calculate the fiscal year 2021/22 Actuarially Determined Contribution (ADC).

The information in this report may not be appropriate for purposes other than System funding but may be useful to the City for the System's financial management. Future valuations may differ significantly if the System's experience differs from our assumptions or if there are changes in plan design, actuarial methods or actuarial assumptions. The project scope did not include an analysis of this potential variation.

The valuation is based on the System's benefit provisions summarized in Section 9, employee data, and on the System's financial information, all furnished by the City. We reviewed the financial and employee data for reasonableness, including comparing to prior year data, but did not perform an audit.

To the best of our knowledge, this report is complete and accurate and has been conducted using generally accepted actuarial principles and practices. As members of the American Academy of Actuaries, meeting Academy Qualification Standards, we certify the actuarial results and opinions herein.

Respectfully submitted,

May Ughet Redding

Mary Elizabeth Redding, FSA, MAAA, EA Vice President

Thathorine Moore

Katherine Moore, ASA, MAAA Associate Actuary

Dogway Var Val

Deanna Van Valer, ASA, MAAA, EA Assistant Vice President

TABLE OF CONTENTS

SECTION	PAGE
1. Executive Summary	1
2. Liability Information & Funded Status	4
3. Asset Information	7
4. Contribution Development	11
5. Schedule of Future Contributions	12
6. Actuarial Gain/Loss Analysis	13
7. Sensitivity Analysis	14
8. Headcount & Benefit Payment Projection	15
9. Plan Provisions	17
10. Methods and Assumptions	20
11. Participant Data	24

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Following are the valuation results. See notes following the table for a description of terms. Results from the June 30, 2019 valuation are provided for comparative purposes.

	amounts in		
	June 30, 2019	June 30, 2020	% change
Participant Counts			
• Actives	8	5	-37.5%
Terminated Vesteds & Reciprocals	8	5	-37.5%
Service Retirees	555	506	-8.8%
• Disableds	104	96	-7.7%
Beneficiaries	314	312	-0.6%
• Total	989	924	-6.6%
Actuarial Liabilities			
• Present Value of Projected Benefits	\$ 313,179	\$ 296,709	-5.3%
Actuarial Accrued Liability	313,073	296,667	-5.2%
Assets			
• Market Value of Assets	281,568	263,137	-6.5%
• Approximate Annual Rate of Return	6.7%	2.8%	
Actuarial Value of Assets	277,234	266,646	-3.8%
• Approximate Annual Rate of Return	7.3%	5.8%	
Plan Funded Status			
Actuarial Accrued Liability	313,073	296,667	-5.2%
• Actuarial Value of Plan Assets	277,234	266,646	-3.8%
• Unfunded Actuarial Accrued Liability	35,839	30,021	-16.2%
Funded Ratio	88.6%	89.9%	1.5%
• Funded Ratio, Market Value Basis	89.9%	88.7%	-1.3%

	2020/21	2021/22	% change
Annual Cost ¹	3,822	3,479	-9.0%
Annual Cost (% Proj. Plan Payroll) ¹	1066.7%	1998.3%	
Annual Cost (% Proj. City Payroll)	1.1%	0.9%	

¹ See page 11 for details.



Purpose of Actuarial Valuation

The actual costs of a defined benefit plan are determined entirely by the amount of the benefit promise, the actual salaries and service of the plan participants, and how long they and their beneficiaries live to receive payments. An actuarial valuation is a mathematical model which attempts to quantify this actual cost by setting assumptions that, it is hoped, duplicate reality as closely as possible. In addition, the actuarial methodology provides a reasonable plan, or method, towards funding the expected plan costs. This information assists the plan trustees so they can make informed decisions regarding plan investments and how much in contributions will be required from the employer to eventually fully pay the plan's costs.

Summary Information & Results

The Sacramento City Employees' Retirement System (SCERS) is a closed defined benefit pension plan. It has not accepted new members since January 28, 1977, and only 5 active members (out of a total plan membership of 924) remain.

Since the last valuation, the plan experienced overall gains on liabilities and losses on market assets. Plan liabilities increased less than expected, by \$3.7 million. This was mostly due to retirees and beneficiaries not living as long as expected, but this was offset by greater COLA than expected². Market value return on assets was less than expected, about 2.8% for the year which resulted in a loss of \$1.6 million on the actuarial (smoothed) value of assets.

One assumption was changed since the prior valuation.

■ The mortality improvement projection was updated to the Society of Actuaries most recent table, MP-2019. This decreased liabilities further by \$1.6 million.

After the assumption changes, the July 1, 2020 total plan unfunded actuarial accrued liability (UAAL) is \$30.0 million, as compared to expected UAAL of \$33.6 million.

The plan's funded ratio on an actuarial value of assets basis is 89.9%, an increase from 88.6% in the prior valuation. The plan's funded ratio using market value of assets basis is 88.7%, a decrease from 89.9% in the prior valuation.

We recommend keeping the amortization period at a rolling 12-year period for the 2021/22 recommended contribution. The average life expectancy of the plan's retirees is now 11.6 years, slightly down from 11.8 years as of June 30, 2019. We believe a 12-year amortization will result in the unfunded liability being paid off in a period of time relating to the remaining lifetime of plan participants, while also providing sufficient contribution smoothing for plan management. The 3-year asset smoothing method provides some smoothing of contribution volatility. The City's contribution has decreased from \$3.822 million for fiscal year 2020/21 to \$3.479 million for fiscal year 2021/22. The prior valuation projected a 2021/22 contribution of \$3.469 million. The 2021/22 contribution is less than projected due to the factors discussed above.

² The CPI used for COLA increases was 3.3%, so the full 3% COLA was paid, and COLA banks were increased. The valuation assumes CPI of 2.75%. (Index used is CPI-U for San Francisco/Oakland/Hayward area.)





Discussion of Plan Risks

Actuarial Standard of Practice No. 51, Assessment and Disclosure of Risk Associated with Measuring Pension Obligations and Determining Pension Plan Contributions, requires the actuary to assess and disclose the risk that actual future measurements may differ significantly from expected future measurements.

This plan is considered a very mature pension plan since almost all of its liabilities are for retirees, and there are almost no remaining active employees with very little associated payroll. The following table presents various measures illustrating the plan's maturity:

	June 30, 2019	June 30, 2020
Maturity Ratios		
Inactive AAL/total AAL	98.9%	99.4%
• Inactive participant count/total count	99.2%	99.5%
• Benefit payments/market value of assets	10.9%	11.2%
Benefit payments/employer contributions	791.5%	834.6%

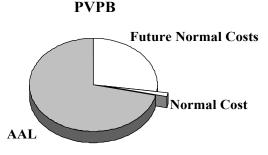
A very mature pension plan presents unique risks. The plan has negative cash flow (benefit payments exceed contributions), and benefit payments are relatively large compared to the asset value. The plan's investment manager must carefully manage the plan's liquidity needs as the plan "winds down" over the next 50 or more years. In addition to investment risk (investment returns being different than expected), asset/liability mismatch risk (changes in asset values not matched by changes in liabilities) could be significant for this plan. The plan is also subject to longevity risk (the potential that participants will live longer than projected) but we believe this risk is less significant than investment and asset/liability mismatch risk.

The scope of this valuation did not include a risk assessment - an evaluation of the potential impacts of these factors on the plan's funded status or projected employer contributions. However, we have included the following to assist in the plan's management:

- Table of expected benefit payments for the next 50 years
- Sensitivity analysis: Contributions calculated under different discount rates
- Sensitivity analysis: Contributions calculated under different amortization periods

Definitions

The Present Value of Projected Benefits (PVPB) is the present value of all future benefits for current plan participants. The Actuarial Accrued Liability (AAL) represents the portion of the PVPB attributable to past service. The AAL is recognized over service through the date a participant is expected to commence benefits. Therefore, the AAL is equal to the PVPB for current retirees. The Normal Cost is the portion of the PVPB allocated or earned during the year following the valuation date.







A comparison of the Present Value of Benefits, Actuarial Accrued Liability, Employer Normal Cost, and the Funded Ratio for the current and prior valuations follows. (Note that numbers throughout the report may not add due to rounding.)

	(amounts	s in \$000's)
	June 30, 2019	June 30, 2020
Present Value of Projected Benefits	i de la constante de	
 Active Employees 	\$ 3,423	\$ 1,722
 Vested Terminated & Reciprocals 	s 927	536
 Service Retirees 	225,202	212,531
 Disabled Participants 	30,748	28,435
 Beneficiaries 	52,878	53,486
■ Total	313,179	296,709
Actuarial Accrued Liability		
 Active Employees 	\$ 3,318	\$ 1,680
 Vested Terminated & Reciprocals 	s 927	536
 Service Retirees 	225,202	212,531
 Disabled Participants 	30,748	28,435
 Beneficiaries 	52,878	53,486
Total	313,073	296,667
	2019/20	2020/21
Normal Cost		
 Employer Normal Cost (beginnin 	ng of \$15	\$ 3
year)		
	Lune 20, 2010	Lune 20, 2020
	June 30, 2019	June 30, 2020
Plan Funded Status		
 Total Actuarial Accrued Liability 	\$ 313,073	\$ 296,667
 Actuarial Value of Plan Assets 	277,234	266,646
 Unfunded Actuarial Accrued Liab 	bility 35,839	30,021
 Funded Ratio 	88.6%	89.9%
 Market Value of Assets 	\$ 281,568	\$ 263,137
■ Funded Ratio – Market Value Ba	sis 89.9%	88.7%



SECTION 2 LIABILITY INFORMATION & FUNDED STATUS

Details of the June 30, 2020 Present Value of Benefits, Actuarial Accrued Liability and Employer Normal Cost by employee category:

	(amounts in \$000's)				
	Safety	Miscellaneous	Total		
Present Value of Projected Benefits					
 Active Employees 	\$ -	\$ 1,722	\$ 1,722		
 Vested Terminated & Reciprocals 	-	536	536		
 Service Retirees 	12,714	199,817	212,531		
 Disabled Participants 	11,682	16,753	28,435		
 Beneficiaries 	16,128	37,359	53,486		
Total	40,524	256,185	296,709		
Actuarial Accrued Liability					
 Active Employees 	-	1,680	1,680		
 Vested Terminated & Reciprocals 	-	536	536		
 Service Retirees 	12,714	199,817	212,531		
 Disabled Participants 	11,682	16,753	28,435		
Beneficiaries	16,128	37,359	53,486		
Total	40,524	256,144	296,667		

	Safet	ty	Misce	llaneous		Tota	1	
Normal Cost								
 Employer Normal Cost (on June 30, 2020) 	\$	-	S	8 3		\$	3	





SECTION 2 LIABILITY INFORMATION & FUNDED STATUS

Details of the June 30, 2020 Present Value of Benefits, Actuarial Accrued Liability and Employer Normal Cost by benefit section:

	(amounts in \$000's)			
	Section 175	Sections 302 & 399	Total	
Present Value of Projected Benefits				
 Active Employees 	\$ -	\$ 1,722	\$ 1,722	
 Vested Terminated & Reciprocals 	65	470	536	
 Service Retirees 	4,689	207,841	212,531	
 Disabled Participants 	1,154	27,281	28,435	
Beneficiaries	4,451	49,035	53,486	
■ Total	10,360	286,349	296,709	
Actuarial Accrued Liability				
 Active Employees 	-	1,680	1,680	
 Vested Terminated & Reciprocals 	65	470	536	
 Service Retirees 	4,689	207,841	212,531	
 Disabled Participants 	1,154	27,281	28,435	
 Beneficiaries 	4,451	49,035	53,486	
■ Total	10,360	286,308	296,667	
		Sections		

Section 175Sections
302 & 399TotalNormal CostEmployer Normal Cost (on
6/30/20)\$ -
\$ 3\$ 3





Assets for SCERS are held in trust. Trust monies may be used to pay benefits to plan participants and their beneficiaries. The trust is managed under the direction of the Administration, Investment, and Fiscal Management Board. Asset information is provided by the City of Sacramento, and has not yet been audited.

Asset Reconciliation – Market Value of Assets

Following reconciles the June 30, 2018 through June 30, 2019 and the June 30, 2019 through June 30, 2020 market value of assets. Numbers may not add due to rounding.

	(amounts in \$000's)					
	2018	8/19	2019	/20		
 Beginning of Year Balance: 		\$ 286,609		\$ 281,568		
Member Contributions	\$ 49		\$ 25			
City Contributions	7,507		4,410			
• Investment Income	19,638		8,692			
 Total Additions 		27,194		13,127		
Benefit Payments	30,880		30,455			
Member Refunds	254		2			
• Investment Expenses	1,101		1,101			
 Total Deductions 	_	32,235		31,558		
Net Assets at End of Year		281,568		263,137		
■ Approximate Return on Assets		6.7%		2.8%		



Asset Allocation – Market Value of Assets

The July 1, 2020 trust asset allocation is provided by the City of Sacramento and based on an allocation strategy of 30% fixed income and 70% equity. Details are shown below.

		(amounts in \$000's)		
		Market Value	Percentage	
Cash & Short Term Investments		\$ 6,573	2.5%	
Receivables		974	0.4%	
Investments				
US Agencies	\$ 695		0.3%	
Corporate Bonds	29,245		11.1%	
• Equities	30,686		11.7%	
• Exchange Traded Funds	156,156		59.3%	
Mortgage Loans	1,074		0.4%	
Municipal Bonds	40,199	_	15.3%	
Total Investments		258,055		
Total Assets		265,602		
Other Liabilities Payable		(2,465)	-0.9%	
Net Pension Benefit Trust Assets		263,137	100.0%	

Target Allocation by Asset Class

The Administration, Investment and Fiscal Management Board of the Sacramento City Employees' Retirement System has not changed the asset allocation since May 3, 2018, as shown below. The fund is rebalanced each year.

	Current Allocation
 Fixed Bonds/Real Estate 	30.0%
Total Fixed	30.0%
 Large Cap Growth 	35.0%
 Equity Income 	27.5%
 International Equities 	7.5%
Total Equity	70.0%
Total Fixed & Equity	100.0%





Discount Rate Development

Bartel Associates modeled the nominal rate of return for the fund, based upon our current capital market assumptions, which include mean returns, standard deviation of returns, and correlation coefficients, as well as our assumed inflation rate. Our modeling showed a 50% likelihood that returns would average (geometric average) at least 6.75% per year and a 55% likelihood that they would average at least 6.39% per year. After adjusting for expenses and rounding, we recommend a 6.50% discount rate for the valuation. This is unchanged since the prior valuation.

Confidence Level	50%	55%	60%
 Inflation Adjusted Return 	6.75%	6.39%	6.06%
■ Investment Expenses ³	<u>0.10%</u>	<u>0.10%</u>	<u>0.10%</u>
 Net Return after Expenses 	6.65%	6.29%	5.96%
Discount Rate Assumption	6.50	9%	

³ Based on average investment expenses for a typical passive investment strategy. This is not plan specific.





Development of Actuarial Value of Assets

The Actuarial Value of Assets is based upon a three year smoothing of market assets. This method reduces volatility in contribution rates, and also reduces volatility in the size of the actuarial gains and losses due to asset returns. Because the plan is frozen to new membership and the membership is primarily composed of retirees and beneficiaries, it is important from a cash flow perspective that asset values used in calculating contribution rates not stray too far from market value. For this reason, a corridor of 15% around the market value is imposed upon the actuarial value.

	(amounts in \$000's)
	2019/20
 Actuarial Value of Assets, Beginning of Year 	\$ 277,234
Contributions	4,435
Expected Earnings	17,188
• Benefit Payments	(30,457)
 Expected Actuarial Value of Assets, End of Year 	268,400
 Market Value of Assets, End of Year 	263,137
 Difference between MVA & Expected AVA 	(5,263)
Preliminary Actuarial Value of Assets, End of Year	
(Expected AVA+ 1/3 Difference)	
 Actuarial Value of Assets Corridor 	266,646
• Cap: 115% of Market Value	302,608
• Min: 85% of Market Value	223,666
Actuarial Value of Assets, End of Year	
(No greater than Cap, not less than Min)	266,646
 Approximate Annual Rate of Return 	5.8%





Actuarially Determined Contribution

Following is the development of the 2021/22 Actuarially Determined Contribution. The 2020/21 Actuarially Determined Contribution was calculated in the June 30, 2019 actuarial valuation and is shown for comparison.

	(amounts in \$000's)			
Contribution Year	2020/21	2021/22		
 Actuarially Determined Contribution 				
 Employer Normal Cost 	\$ 10	\$ 2		
• UAAL Amortization ⁴	3,812	3,477		
Total Cost	3,822	3,479		
Projected Plan Payroll	358	174		
 Actuarially Determined Contribution (as a percent of plan payroll) 				
Employer Normal Cost	2.9%	1.0%		
UAAL Amortization	1063.8%	1997.3%		
Total Contribution	1066.7%	1998.3%		
 Projected Total City Payroll 	363,821	407,290		
 Actuarially Determined Contribution (as a percent of total City payroll) 				
• Employer Normal Cost	0.0%	0.0%		
UAAL Amortization	1.1%	0.9%		
Total Contribution	1.1%	0.9%		

⁴ The Unfunded Actuarial Accrued Liability (UAAL) as of the beginning of the contribution year is being amortized as a level dollar amount over a rolling 12-year period for 2020/21 and 2021/22. As the plan continues to mature, this amortization period will be monitored.





SECTION 5 SCHEDULE OF FUTURE CONTRIBUTIONS

Below are the historic and projected contributions and benefit payments. City contributions for years ending 6/30/2023 and later are estimated assuming 6/30/21 and subsequent market value of assets earn 6.50% and assuming the Actuarially Determined Contribution is contributed each year. These contributions are designed to achieve 100% funding of the system.

	Member		
Year Ending ⁵	Contributions	City Contributions	Benefit Payments
6/30/1994	1,432,000	0	24,165,000
6/30/1995	1,320,000	0	24,565,000
6/30/1996	1,228,000	0	25,027,000
6/30/1997	1,080,000	0	23,274,000
6/30/1998	1,090,000	0	23,825,000
6/30/1999	1,136,000	0	24,249,000
6/30/2000	1,079,000	06	24,901,000
6/30/2001	989,000	0	25,087,000
6/30/2002	1,011,000	0	25,588,000
6/30/2003	978,000	0	26,619,000
6/30/2004	1,056,000	0	26,772,000
6/30/2005	809,000	0	27,524,000
6/30/2006	789,000	0	28,749,000
6/30/2007	699,000	0	29,604,000
6/30/2008	596,000	3,534,000	29,896,000
6/30/2009	607,000	3,159,000	30,707,000
6/30/2010	377,000	3,431,000	31,719,000
6/30/2011	342,000	10,547,000	33,003,000
6/30/2012	332,000	10,361,000	33,057,000
6/30/2013	219,000	10,573,000	33,237,000
6/30/2014	161,000	9,649,000	33,688,000
6/30/2015	82,000	9,183,000	33,791,000
6/30/2016	69,000	8,645,000	32,683,000
6/30/2017	63,000	8,645,000	32,171,000
6/30/2018	55,000	8,645,000	31,583,000
6/30/2019	49,000	7,507,000	31,134,000
6/30/2020	25,000	4,410,000	30,457,000
6/30/2021	15,000	3,822,000	29,486,000
6/30/2022	8,000	3,479,000	29,035,000
6/30/2023	5,000	3,383,000	28,556,000
6/30/2024	4,000	3,263,000	28,010,000
6/30/2025	2,000	3,128,000	27,402,000

⁵ Information prior to 6/30/2006 valuation is taken from prior actuary's valuation report. Member contributions and benefit payments for years ending 6/30/2021 and later are estimated.

⁶ Shown as a negative 1.367 million by prior actuary.



The gain/loss analysis of plan assets, actuarial liability, and unfunded actuarial liability for the one year period between valuation dates:

	(a	(amounts in \$000's)					
	Actuarial Accrued Liability (Gain)/Loss	Actuarial Value of Assets Gain/(Loss)	Unfunded Actuarial Accrued Liability (Gain)/Loss				
■ June 30, 2019 Actual Value	\$ 313,073	\$ 277,234	\$ 35,839				
■ June 30, 2020 Expected Valu	e 301,915	268,281	33,634				
• COLA greater than expected	877						
■ Demographic (Gain)/Loss ⁷	(4,532)						
 Investment Loss 		(1,629)					
Contributions less than expected	ed	(6)					
■ Total (Gain)/Loss			(2,020)				
June 30, 2020 Prior to Chang Assumptions	ges in 298,260	266,646	31,614				
 Change in Mortality Improven Assumption 	(1,593)		(1,593)				
■ June 30, 2020 Actual Value	296,667	266,646	30,021				



⁷ Primarily due to more retiree and beneficiary deaths than expected.

The Plan's June 30, 2020 funded status and 2021/22 fiscal year contribution are shown below at 5.50%, 6.50%, and 7.50% discount rates.

		(amounts in \$000's)			
Discount Rate	5.50%	Current 6.50%	7.50%		
 Present Value of Projected Benefits 	\$ 320,818	\$ 296,709	\$ 275,747		
Funded StatusActuarial Accrued Liability	320,764	296,667	275,714		
Actuarial Value of Assets	266,646	266,646	266,646		
• Unfunded Actuarial Accrued Liability	54,118	30,021	9,068		
Funded Ratio	83.1%	89.9%	96.7%		
2021/22 Actuarially Determined Contril	oution				
Employer Normal Cost	4	2	-		
• UAAL Amortization (12 years)	6,147	3,477	878		
Total Contribution	6,151	3,479	878		
• Total Employer Contribution (as a percent of Plan payroll)	3533.1%	1998.3%	504.4%		
• Total Employer Contribution (as a percent of total City payroll)	1.5%	0.9%	0.2%		

The Plan's 2021/22 fiscal year contribution would increase if the amortization period of the Unfunded Actuarial Accrued Liability were shorter. Shown below are results based on the current 12-year period, as well as for 13, 11, and 10 year periods.

The average life expectancy of retirees is currently 11.6 years, down slightly from 11.8 years as of June 30, 2019. We recommend continuing to use a 12 year amortization period.

(amounts in \$000's)					
Amortization Years	13	Recom- mended 12	11	10	
 2021/22 Actuarially Determined Contr 	ribution				
Employer Normal Cost	\$ 2	\$ 2	\$ 2	\$ 2	
UAAL Amortization	3,299	3,477	3,690	3,946	
Total Employer Contribution	3,301	3,479	3,692	3,948	
• Total Employer Contribution (as a percent of Plan payroll)	1895.9%	1998.3%	2120.3%	2267.8%	
• Total Employer Contribution (as a percent of total City payroll)	0.8%	0.9%	0.9%	1.0%	



SECTION 8 HEADCOUNT AND BENEFIT PAYMENT PROJECTION

				Annual Benefit
Fiscal Year	Active	Term Vested	Retiree	Payments
Ending June 30,	Count	Count	Count	(000's)
2021	5	5	914	\$ 29,486
2022	2	5	885	29,035
2023	2	5	853	28,556
2024	1	5	819	28,010
2025	1	5	785	27,402
2026	0	5	749	26,749
2027	0	5	713	26,026
2028	0	5	677	25,230
2029	0	5	642	24,400
2030	0	5	606	23,539
		_		
2031	0	5	571	22,647
2032	0	5	537	21,723
2033	0	4	503	20,769
2034	0	4	469	19,783
2035	0	4	437	18,768
2036	0	4	405	17,727
2037	0	4	373	16,661
2038	0	4	343	15,578
2039	0	4	313	14,482
2040	0	3	285	13,383
2041	0	3	257	12,287
2042	0	3	231	11,203
2043	0	3	206	10,142
2044	0	2	183	9,111
2045	0	2	161	8,122
2046	0	2	140	7,181
2047	0	1	122	6,297
2048	0	1	105	5,477
2049	0	1	89	4,724
2050	0	1	76	4,041

Headcount and Benefit Payment Projection



SECTION 8 HEADCOUNT AND BENEFIT PAYMENT PROJECTION

Fiscal Year Ending June 30,	Active Count	Term Vested Count	Retiree Count	Annual Benefit Payments (000's)
2051	0	1	63	\$ 3,430
2052	0	1	53	2,888
2053	0	0	44	2,416
2054	0	0	36	2,009
2055	0	0	29	1,663
2056	0	0	24	1,375
2057	0	0	19	1,138
2058	0	0	16	946
2059	0	0	13	792
2060	0	0	10	670
2061	0	0	9	574
2062	0	0	7	499
2063	0	0	6	442
2064	0	0	5	399
2065	0	0	4	365
2066	0	0	4	339
2067	0	0	3	317
2068	0	0	3	299
2069	0	0	3	282
2070	0	0	2	267



A. Plan Effective Date

Originally established effective April 1, 1935.

B. Plan Year

July 1 to June 30.

C. Participation

The plan is closed with no new members since January 28, 1977.

D. Eligibility to Retire

<u>Section 175</u>: Age 70, or age 55 and 20 years of service. <u>Sections 302 and 399</u>: Age 70, or age 50 and 5 years of service.

E. Vesting

100% vesting with five years of participation.

F. Average Monthly Compensation

Average monthly salary for the 36 months prior to termination.

G. Employee Contributions

Each participant contributes a certain percentage based on his or her age at entry into the plan.

H. Service Retirement Benefit

Section 175:

Average Monthly Compensation times years of service times Benefit Factor. For retirement after age 65 with 20 years of service, benefit is a minimum of \$60 per month.

Sections 302 and 399:

Average Monthly Compensation times years of service times Benefit Factor, but no larger than 75% of final average earnings.

Benefit Factors at sample ages:

<u>Retirement Age</u>	Section 175	Sections 302 and 399
50	n/a	1.10%
55	1.10%	1.75%
60	1.67%	2.40%
65	2.44%	2.40%





I. Vested Termination Benefit

Return of employee contributions with interest, or if the value is greater than \$500, the member may choose to leave the contributions in the system. The member may become eligible in the future for retirement, disability or death benefits.

J. Non-Industrial (Ordinary) Disability Benefit

Eligibility is ten years of service.

Section 175:

With 16 2/3 years of service: 1¹/₂% of final average salary times years of service to disability.

<u>Less than 16 2/3 years of service</u>: Minimum of $1\frac{1}{2}$ % of final average salary times years of service would have earned to age 60, or 25% of final average earnings.

Sections 302 and 399:

<u>Not Eligible for Retirement</u>: Lesser of 1½% of Final Average Earnings times years of service or final average earnings times benefit factor at age 50 times years of service at age 50, minimum of 25% of final average earnings.

<u>Eligible for Retirement</u>: Maximum of retirement allowance or 25% of final average earnings.

K. Industrial Disability Benefit

Sections 302 and 399:

Not Eligible for Retirement: 50% of final average earnings.

<u>Eligible for retirement</u>: Maximum of retirement allowance or 50% of final average earnings.

L. Death Benefit – Pre Retirement Eligibility

Return of employee contributions with interest, plus 1/12 of salary in the year preceding death multiplied by the smaller of 6 or years of service.

M. Death Benefit – Post Retirement Eligibility

50% of the member's benefit as if the member retired at the time of death, paid as a lifetime benefit to the spouse.

N. Death Benefit – Post Retirement Death

\$500 paid to the member's estate upon death.





O. Social Security Reduction at age 62

For members participating in Social Security, their benefit will be reduced at the later of age 62 or actual retirement age. The amount of the reduction is one half of the PIA from Social Security, multiplied by the ratio of the sum of salary earned from the City to the sum of salary from all sources used in the calculation of the Social Security amount. The member's benefit under the System plus the amount received from Social Security cannot be less than the member's benefit under the System calculated with no reductions as of his retirement age. The City applies this offset to service retirees, not to disabled retirees.

P. Reduction Account

A member can choose to reduce his normal contributions to the System by an amount equal to the taxes paid for Social Security coverage. At the time of retirement, the regular retirement benefit will be reduced by the actuarial equivalent of the accumulated value of the reduction of contributions.

Q. Cost of Living

Benefits will be increased each July 1 by the change in the CPI for the San Francisco/Oakland area for the preceding calendar year limited to 3% (with COLA bank).

R. Benefit Forms

Section 175:

Lifetime benefit to the member, which may be actuarially reduced to provide a continuance to a beneficiary.

Section 302 and 399:

Lifetime benefit to the member, with an automatic 50% continuance to the spouse.





Actuarial Methods

The actuarial cost method used for this valuation is the Entry Age Normal (EAN) method. The Present Value of Projected Benefits (PVPB) is the present value of all future benefits for current plan participants. The Actuarial Accrued Liability (AAL) represents the portion of the PVPB attributable to past service. The AAL is recognized over service through the date a participant is expected to commence benefits.

We recommend amortizing the current unfunded AAL over a 12-year rolling period as a level dollar amount. Because the plan is closed the amortization period should be regularly reviewed. The Board has regularly reduced the amortization period in the recent past. Under current Board policy, when the average future life expectancy of the plan participants drops below 5 years, the amortization period will be reduced to no more than 5 years.

Plan funded status based on excess of

- 1) Value of Normal Retirement Benefit in excess of employee contributions over
- 2) Actuarial Value of Assets

The contribution generated by the current valuation will be payable for the City's fiscal year beginning one year later (2021/22). The June 30, 2019 valuation generated a contribution for fiscal year 2020/21.

The Actuarial Value of Assets is a 3-year smoothed market value. Gains and losses will be recognized over a three year period. For June 30, 2006, the first year of this method, the Actuarial Asset Value was set equal to the Market Value. The Actuarial Value of Assets will be limited by a 15% corridor. The Actuarial Value of Assets will be no greater than 115% of Market Value of Assets and no less than 85% of Market Value of Assets.

Data

The City provided participant data as of 7/1/2020. We reviewed the data, but did not perform an audit.

Basis for Assumptions

Mortality assumptions are based on CalPERS 1997-2015 experience study, since that study is based on populations similar to this plan. Mortality improvement is the Society of Actuaries Scale MP-2019. Inflation is based on our estimate for the plan's very long time horizon. The salary merit assumption is based on our expectation of overall payroll growth, due to the current age of remaining employees.

Retirement and disablement rates are insignificant due to the age of the remaining participants and are based on rates used historically.

The Social Security offset, marriage, retirement age for deferred vesteds, and reciprocal assumptions are based in part on plan experience. Due to the small number and age of remaining employees and deferred vested, these assumptions are not significant.





SECTION 10 METHODS AND ASSUMPTIONS

Actuarial Assumptions

Assumptions used in the valuation are as follows:

Discount Rate

6.50% net of investment expenses⁸. See page 9 for derivation.

Inflation

2.75%

Salary Scale

2.75% CPI

0.50% Merit

Social Security Wage Base

3.00%

Termination

None assumed. All active employees are retirement-eligible.

Retirement

Rates vary based on age. Sample rates follow:

Age	<u>Non Sec 175</u>
55	6%
60	26%
65	40%
70	100%

Disability

Rates vary based on age, gender and if the disability is job-related or not. Sample rates follow:

	<u>Job R</u>	elated	<u>Ordinary</u>		
	Male	Female	Male	Female	
59	.00612	.00336	.01683	.00924	
60	.00639	.00351	.01761	.00969	
61	.00000	.00000	.00000	.00000	

⁸ Administrative expenses are not paid from plan assets.



Healthy Mortality

CalPERS 1997-2015 Pre-Retirement Mortality table for males and females and CalPERS 1997-2015 Post-Retirement Mortality table for males and females. Sample rates are as follows:

	Pre-Re	etirement	Post-R	etirement [
Age	Male	Female	Male	Female
50	0.12%	0.08%	0.44%	0.39%
60	0.26%	0.17%	0.75%	0.52%
70	0.62%	0.39%	1.50%	1.06%
80	1.66%	0.94%	4.64%	3.49%
90	n/a	n/a	14.94%	11.38%
100	n/a	n/a	35.37%	30.62%

Post-Retirement Disabled Mortality

For Miscellaneous retirees, CalPERS 1997-2015 Non-Work-Related Disability table for males and females. For Safety retirees, CalPERS 1997-2015 Work-Related Disability table for males and females. Sample rates are as follows:

	Non-Wo	rk-Related	Work	-Related
Age	Male	Female	Male	Female
50	1.40%	1.23%	0.44%	0.39%
60	2.42%	1.52%	0.75%	0.52%
70	3.77%	2.50%	1.80%	1.27%
80	7.32%	5.38%	5.57%	4.18%
90	16.74%	14.92%	16.43%	12.52%
100	35.37%	35.05%	35.37%	30.62%

Mortality Improvement Projection

Post-retirement mortality projected fully generational with Society of Actuaries Scale MP-2019.

Prior valuation used mortality projected fully generational with Society of Actuaries Scale MP-2018.

Social Security Offset

Monthly benefits for current retirees and vested terminated assumed to decrease at the later of age 62 or actual retirement, based on the average expected offset of future retirees.

Marriage

85% of male employees and 60% of female employees are assumed to be married. Wives are assumed to be four years younger than husbands.





Retirement Age

Deferred vested members covered under Section 399 are assumed to retire at age 62; those covered under Section 175 are assumed to retire at age 65.

Reciprocal Members

All remaining deferred vested members are assumed to have reciprocity with other retirement systems, and their pay is assumed to increase with salary scale after separation from the City.





Data Summary

Following summarizes participant demographic information for the June 30, 2019 and June 30, 2020 actuarial valuations.

	June 30, 2	2019	June	30, 2020
Participant Counts				
• Actives		8		5
Terminated Vesteds		5		4
Reciprocals		3		1
• Service Retirees ⁹		555		506
• Disableds		104		96
• Beneficiaries ¹⁰		314		312
• Total		989		924
Actives				
• Average Age		65.0		66.3
Average Service		35.9		37.0
• Salary				
≻ Total	\$ 536,	145	\$	330,244
> Average	67,	018		66,049
Overall City Payroll	341,277,	000	382	,053,000
Terminated Vesteds & Reciprocals				
• Average Age		69.0		69.7
Retirees, Disableds & Beneficiaries				
• Average Age		78.8		79.0
Average Monthly Benefit	\$2,	652		2,725
• Life expectancy		11.8		11.6

¹⁰ Includes one former spouse of a deceased retiree whom the City has not been able to contact and is not yet receiving benefits.



⁹ The June 30, 2020 valuation includes one retiree eligible for benefits but not yet receiving them.

June 30, 2020 Participant Data

Following summarizes participant demographic information for the June 30, 2020 actuarial valuation, broken out by employee category and benefit section.

S	Safety		Miscellaneous		
Section 175	Section 302 & 399	Section 175	Section 302 & 399	Total	
-	-	-	5	5	
n/a	n/a	n/a	66.3	66.3	
n/a	n/a	n/a	37.0	37.0	
\$ -	\$ -	\$ -	66,049	66,049	
-	-	-	330	330	
-	-	1	4	5	
n/a	n/a	69.6	69.7	69.7	
20	136	29	729	914	
86.1	83.5	82.9	77.8	79.0	
\$2,423	\$3,115	\$1,912	\$2,692	\$2,725	
6	32	12	456	506	
89.2	89.0	82.3	77.0	78.0	
53.4	54.6	63.0	59.6	59.3	
\$2,786	\$5,191	\$2,365	\$3,274	\$3,368	
3	33	4	56	96	
92.4	78.3	84.3	75.3	77.3	
52.1	41.5	50.0	49.6	46.9	
\$3,177	\$2,892	\$1,410	\$2,294	\$2,490	
11	71	13	217	312	
82.8	83.4	83.0	80.3	81.2	
\$2,020	\$2,284	\$1,648	\$1,573	\$1,754	
	Section 175 - n/a n/a \$ - - n/a \$ - - n/a 20 86.1 \$2,423 6 89.2 53.4 \$2,786 3 92.4 53.4 \$2,786 3 92.4 52.1 \$3,177 11 82.8	Section 175Section 302 & 399 $ n/a$ n/a n/a n/a n/a n/a $\$$ $ n/a$ n/a $\$$ $ n/a$ n/a 20 136 86.1 83.5 $\$2,423$ $\$3,115$ 6 32 $\$9.2$ $\$9.0$ 53.4 54.6 $\$2,786$ $\$5,191$ 3 33 92.4 78.3 52.1 41.5 $\$3,177$ $$2,892$ 11 71 82.8 83.4	Section 175Section 302 & 399Section 175 $ n/a$ n/a $\$$ $\$$ $\$$ $\$$ $$ \$$ $$ n/a$ n/a 69.6 2013629 86.1 83.5 82.9 $\$2,423$ $\$3,115$ $\$1,912$ 6 32 12 89.2 89.0 82.3 53.4 54.6 63.0 $\$2,786$ $\$5,191$ $\$2,365$ 3 33 4 92.4 78.3 84.3 52.1 41.5 50.0 $\$3,177$ $\$2,892$ $\$1,410$ 11 71 13 82.8 83.4 83.0	Section 175Section 302 & 399Section 175Section 302 & 3995n/an/an/an/a66.3n/an/an/an/a37.0 $\$$ - $\$$ - $\$$ - $\$$ -66,049330 $\$$ 14n/an/a69.669.7201362972986.183.582.977.8 $\$$ 2,423 $\$$ 3,115 $\$$ 1,912 $\$$ 2,6926321245689.289.082.377.053.454.663.059.6 $\$$ 2,786\$5,191\$2,365\$3,27433345692.478.384.375.352.141.550.049.6 $\$$ 3,177\$2,892\$1,410\$2,294117113217 82.8 83.483.080.3	



SECTION 11 Participant Data

Data Reconciliation 6/30/2019 to 6/30/2020

		Terminated		Receiving Payments			
	Actives	Vested	Reciprocal	Disabled	Benefic.	Retirees	Total
■ June 30, 2019	8	5	3	104	314	555	989
• New Hires	-	-	-	-	-	-	-
• Disabled	(1)	-	-	1	-	-	-
• Terminated	-	-	-	-	-	-	-
• Deceased	-	(1)	-	(9)	(21)	(52)	(83)
New Beneficiaries	-	-	-	-	19	-	19
• Retired	(2)	-	(1)	-	-	3	-
• Adjustment/Cash Out	=	<u>-</u>	<u>(1)</u>	=	=	=	<u>(1)</u>
June 30, 2020	5	4	1	96	312	506	924





Active Age/Service

Following are active counts by age and service groups:

Service									
Age	0-4	5-9	10-14	15-19	20-24	25-29	30 & Over	Total	
Under 25	-	-	-	-	-	-	_	-	
25-29	-	-	-	-	-	-	-	-	
30-34	-	-	-	-	-	-	-	-	
35-39	-	-	-	-	-	-	-	_	
40-44	-	-	-	-	-	-	-	_	
45-49	-	-	-	-	-	-	-	-	
50-54	-	-	-	-	-	-	-	-	
55-59	-	-	-	-	-	-	-	_	
60-64	-	-	-	-	1	-	1	2	
65 & Over	-	-	-	-	-	-	3	3	
Total	-	-	-	-	1	-	4	5	



Inactives Age/Status/Monthly Benefit

Following are inactive counts and monthly benefit by age and status.

Safety									
Age		Service Retirees	Disability Retirees	Beneficiaries	Total				
Under 50	Count	-	-	-	-				
	Avg. Benefit	-	-	-	-				
50-54	Count	-	-	-	-				
	Avg. Benefit	-	-	-	-				
55-59	Count	-	-	-	-				
	Avg. Benefit	-	-	-	-				
60-64	Count	-	-	1	1				
	Avg. Benefit	-	-	1,867	1,867				
65-69	Count	-	-	2	2				
	Avg. Benefit	-	-	2,018	2,018				
70-74	Count	1	10	14	25				
	Avg. Benefit	7,337	3,324	1,848	2,658				
75-79	Count	4	13	12	29				
	Avg. Benefit	2,794	2,410	2,304	2,419				
80-84	Count	3	5	12	20				
	Avg. Benefit	5,941	2,683	2,386	2,993				
85 & Over	Count	30	8	41	79				
	Avg. Benefit	4,883	3,373	2,349	3,415				
Total	Count	38	36	82	156				
	Avg. Benefit	4,811	2,916	2,249	3,027				





SECTION 11 PARTICIPANT DATA

Service Disability Beneficiaries Total Age Retirees Retirees Count 1 1 Under 50 --710 Avg. Benefit 710 --Count 50-54 _ _ --Avg. Benefit ----55-59 Count 4 4 _ -1,214 Avg. Benefit 1,214 --60-64 Count 2 11 10 23 Avg. Benefit 2,963 2,081 1,229 2,132 Count 65-69 76 18 17 111 Avg. Benefit 3,435 2,407 1,402 2,957 70-74 Count 121 11 39 171 Avg. Benefit 2,896 3,303 1,700 2,911 75-79 Count 104 33 143 6 Avg. Benefit 3,288 1,644 1,717 2,856 80-84 Count 77 13 43 133 3,094 1,793 Avg. Benefit 2,184 2,584 Count 85 & Over 79 10 83 172 Avg. Benefit 3,136 1,648 1,459 2,240 Total Count 468 60 230 758 Avg. Benefit 3,251 2,235 2,663 1,578







Exhibit H Current Debt Service Schedule As of 3/15/2021

Sacramento Public Financing Authority Lease Revenue Bonds, Series 2015 (Golden 1 Center) (Federally Taxable)

				"On or after" Date
	Par Amount	\$ 272,870,000.00		10/7/2015
Bond Info	Dated Date	10/06/2015	Call Information	
Bona mio	Issued Date	10/06/2015	Call Information	
	Final Maturity	04/01/2050		

PAYMENT DATE	INTEREST RATE	ORIGINAL PRINCIPAL DUE	CALLED PRINCIPAL	CALL PREMIUM	OUTSTANDING PRINCIPAL	INTEREST DUE	DEBT SERVICE PAYMENT	TOTAL BOND YEAR DEBT SERVICE	TOTAL FISCAL YEA DEBT SERVICE
-	-	\$ -	\$-	INVALID CALL	\$-	\$-	\$ -		
Apr 01, 2016	-	\$-	\$-	\$-	\$ -	\$ 7,229,367.44	\$ 7,229,367.44	\$ 7,229,367.44	\$ 7,229,367.44
Oct 01, 2016	-	\$-	\$-	\$ -	\$ -	. , ,	\$ 7,435,920.80		
Apr 01, 2017	-	\$ -	\$ -	\$ -	\$ -	. , ,	\$ 7,435,920.80	\$ 14,871,841.60	\$ 14,871,841.60
Oct 01, 2017	-	\$ -	\$ -	\$ -	\$ -	. , ,	\$ 7,435,920.80		
Apr 01, 2018	2.51%	\$ 3,425,000.00	\$ -	\$ -	\$ 3,425,000.00	\$ 7,435,920.80	\$ 10,860,920.80	\$ 18,296,841.60	\$ 18,296,841.60
Oct 01, 2018	-	\$ -	\$ -	\$ -	\$-	. , ,	\$ 7,392,937.05		*
Apr 01, 2019	2.90%	\$ 3,510,000.00	\$- \$-	\$ -	\$ 3,510,000.00 \$ -	. , ,	\$ 10,902,937.05	\$ 18,295,874.10	\$ 18,295,874.10
Oct 01, 2019	-	\$ 3.615.000.00	\$ - \$ -	\$ - \$ -		. , ,	\$ 7,342,112.25	ć 10.200.224.50	ć 10.200.224 F
Apr 01, 2020 Oct 01, 2020	3.20%	\$ 3,615,000.00 \$ -	\$ - \$ -	\$ - \$ -	\$ 3,615,000.00 \$ -	1 1 1	\$ 10,957,112.25 \$ 7,284,344.55	\$ 18,299,224.50	\$ 18,299,224.50
Apr 01, 2020	3.54%	\$ 3,810,000.00	\$ -	\$ -	\$ 3,810,000.00	. , ,	\$ 11,094,344.55	\$ 18,378,689.10	\$ 18,378,689.10
Oct 01, 2021	-	\$ -	\$ -	\$ -	\$ -	. , ,	\$ 7,216,850.40	\$ 10,570,005.10	\$ 10,570,005.10
Apr 01, 2022	3.79%	\$ 3,945,000.00	\$ -	\$ -	\$ 3,945,000.00		\$ 11,161,850.40	\$ 18,378,700.80	\$ 18,378,700.80
Oct 01, 2022	-	\$ -	\$ -	\$ -	\$ -	. , ,	\$ 7,142,033.48	,,	,,
Apr 01, 2023	4.00%	\$ 4,005,000.00	\$ -	\$ -	\$ 4,005,000.00	\$ 7,142,033.48	\$ 11,147,033.48	\$ 18,289,066.96	\$ 18,289,066.96
Oct 01, 2023	-	\$-	\$-	\$-	\$-	\$ 7,062,033.60	\$ 7,062,033.60		
Apr 01, 2024	5.64%	\$ 4,165,000.00	\$ -	\$ -	\$ 4,165,000.00	\$ 7,062,033.60	\$ 11,227,033.60	\$ 18,289,067.20	\$ 18,289,067.20
Oct 01, 2024	-	\$-	\$-	\$-	\$ -	\$ 6,944,643.08	\$ 6,944,643.08		
Apr 01, 2025	5.64%	\$ 4,400,000.00	\$-	\$-	\$ 4,400,000.00	\$ 6,944,643.08	\$ 11,344,643.08	\$ 18,289,286.16	\$ 18,289,286.16
Oct 01, 2025	-	\$-	\$-	\$ -	\$-	.,,	\$ 6,820,629.08		
Apr 01, 2026	5.64%	\$ 4,645,000.00	\$ -	\$ -	\$ 4,645,000.00	. , ,	\$ 11,465,629.08	\$ 18,286,258.16	\$ 18,286,258.16
Oct 01, 2026	-	\$ -	\$ -	\$ -	\$ -	. , ,	\$ 6,689,709.75		
Apr 01, 2027	5.64%	\$ 4,910,000.00	\$ -	\$ -	\$ 4,910,000.00		\$ 11,599,709.75	\$ 18,289,419.50	\$ 18,289,419.50
Oct 01, 2027	-	\$ -	\$ -	\$ -	\$ -		\$ 6,551,321.40	A 40.007.040.00	á 10.007.010.01
Apr 01, 2028	5.64%	\$ 5,185,000.00	\$ -	\$ -	\$ 5,185,000.00	. , ,	\$ 11,736,321.40	\$ 18,287,642.80	\$ 18,287,642.80
Oct 01, 2028 Apr 01, 2029	- E C 49/	\$ - \$ 5,475,000.00	<u>\$</u> - \$-	\$- \$-	\$ - \$ 5,475,000.00	1 .,,	\$ 6,405,182.18 \$ 11,880,182.18	¢ 10.005.064.06	¢ 10.005.064.00
Oct 01, 2029	5.64%	\$ 5,475,000.00 \$ -	\$ -	\$ -	\$ 5,475,000.00 \$ -	.,,	\$ 6,250,869.30	\$ 18,285,364.36	\$ 18,285,364.36
Apr 01, 2020	5.64%	\$ 5,785,000.00	\$ -	ş -	\$ 5,785,000.00	. , ,	\$ 12,035,869.30	\$ 18,286,738.60	\$ 18,286,738.60
Oct 01, 2030	-	\$ -	\$ -	\$ -	\$ -	. , ,	\$ 6,087,819.08	\$ 10,200,730.00	\$ 10,200,750.00
Apr 01, 2031	5.64%	\$ 6,110,000.00	\$ -	\$ -	\$ 6,110,000.00	. , ,	\$ 12,197,819.08	\$ 18,285,638.16	\$ 18,285,638.16
Oct 01, 2031	-	\$ -	\$ -	\$ -	\$ -		\$ 5,915,608.73	+	+ _==,===,===
Apr 01, 2032	5.64%	\$ 6,455,000.00	\$ -	\$ -	\$ 6,455,000.00		\$ 12,370,608.73	\$ 18,286,217.46	\$ 18,286,217.46
Oct 01, 2032	-	\$ -	\$-	\$-	\$ -	\$ 5,733,674.55	\$ 5,733,674.55		
Apr 01, 2033	5.64%	\$ 6,815,000.00	\$ -	\$-	\$ 6,815,000.00	\$ 5,733,674.55	\$ 12,548,674.55	\$ 18,282,349.10	\$ 18,282,349.10
Oct 01, 2033	-	\$-	\$ -	\$-	\$-	\$ 5,541,593.78	\$ 5,541,593.78		
Apr 01, 2034	5.64%	\$ 7,200,000.00	\$-	\$ -	\$ 7,200,000.00	\$ 5,541,593.78	\$ 12,741,593.78	\$ 18,283,187.56	\$ 18,283,187.56
Oct 01, 2034	-	\$ -	\$ -	\$ -	\$ -		\$ 5,338,661.78		
Apr 01, 2035	5.64%	\$ 7,605,000.00	\$-	\$ -	\$ 7,605,000.00	. , ,	\$ 12,943,661.78	\$ 18,282,323.56	\$ 18,282,323.56
Oct 01, 2035	-	\$ -	\$ -	\$ -	\$ -		\$ 5,124,314.85		
Apr 01, 2036	5.64%	\$ 8,035,000.00	\$ -	\$ -	\$ 8,035,000.00	. , ,	\$ 13,159,314.85	\$ 18,283,629.70	\$ 18,283,629.70
Oct 01, 2036	-	\$ -	\$ -	\$ -	\$ -	. , ,	\$ 4,897,848.38	¢ 10 200 COC 7C	ć 10.200.000 70
Apr 01, 2037 Oct 01, 2037	5.64%	\$ 8,485,000.00 \$ -	\$ - \$ -	\$ - \$ -	\$ 8,485,000.00 \$ -	/ / / / / / /	\$ 13,382,848.38 \$ 4,658,698.65	\$ 18,280,696.76	\$ 18,280,696.76
Apr 01, 2037	- 5.64%	\$ 8,965,000.00	\$ -	\$ -	\$ 8,965,000.00	. , ,	\$ 13,623,698.65	\$ 18,282,397.30	\$ 18,282,397.30
Oct 01, 2038	5.0478	\$ 8,505,000.00 \$ -	\$ - \$ -	\$ -	\$ 8,505,000.00 \$ -	\$ 4,406,020.13	\$ 4,406,020.13	\$ 10,202,337.30	\$ 10,202,337.30
Apr 01, 2039	5.64%	\$ 9,470,000.00	\$ -	\$ -	\$ 9,470,000.00	. , ,	\$ 13,876,020.13	\$ 18,282,040.26	\$ 18,282,040.26
Oct 01, 2039	-	\$ -	\$ -	\$ -	\$ -	. , ,	\$ 4,139,108.18	¢ 10,202,010.20	¢ 10,202,010.20
Apr 01, 2040	5.64%	\$ 10,000,000.00	\$ -	\$ -	\$ 10,000,000.00		\$ 14,139,108.18	\$ 18,278,216.36	\$ 18,278,216.36
Oct 01, 2040	-	\$ -	\$ -	\$ -	\$ -	\$ 3,857,258.18		, .,	, .,
Apr 01, 2041	5.64%	\$ 10,565,000.00	\$ -	\$ -	\$ 10,565,000.00			\$ 18,279,516.36	\$ 18,279,516.36
Oct 01, 2041	-	\$-	\$-	\$-	\$-	\$ 3,559,483.65	\$ 3,559,483.65		
Apr 01, 2042	5.64%	\$ 11,160,000.00	\$-	\$-	\$ 11,160,000.00	\$ 3,559,483.65	\$ 14,719,483.65	\$ 18,278,967.30	\$ 18,278,967.30
Oct 01, 2042	-	\$-	\$-	\$-	\$-	\$ 3,244,939.05	\$ 3,244,939.05		
Apr 01, 2043	5.64%	\$ 11,790,000.00		\$-	\$ 11,790,000.00		\$ 15,034,939.05	\$ 18,279,878.10	\$ 18,279,878.10
Oct 01, 2043	-	\$ -	\$-	\$ -	\$-	\$ 2,912,637.90			
Apr 01, 2044	5.64%	\$ 12,450,000.00		\$ -	\$ 12,450,000.00			\$ 18,275,275.80	\$ 18,275,275.8
Oct 01, 2044	-	\$ -	\$ -	\$ -	\$ -		\$ 2,561,734.65		
Apr 01, 2045	5.64%		\$ -	\$ -	\$ 13,150,000.00				\$ 18,273,469.30
Oct 01, 2045	-	\$ -	\$ -	\$ -	\$ - \$ 13.805.000.00	\$ 2,191,101.90 \$ 2,101.101.00			ć 10.077.000 C
Apr 01, 2046	5.64%	\$ 13,895,000.00		\$ - \$ -	\$ 13,895,000.00		. , ,	\$ 18,277,203.80	\$ 18,277,203.8
Oct 01, 2046		\$ - \$ 14,675,000.00	Ŷ	Ŷ	> -	\$ 1,799,471.33 \$ 1,700,471.32	. , ,	¢ 10 272 042 CC	ć 10 272 042 C
Apr 01, 2047 Oct 01, 2047	5.64%	\$ 14,675,000.00 \$ -	\$ - \$ -	\$ - \$ -	\$ 14,675,000.00			\$ 18,273,942.66	\$ 18,273,942.6
Apr 01, 2047		\$ - \$ 15,500,000.00		\$ - \$ -	\$ - \$ 15,500,000.00	\$ 1,385,856.45 \$ 1,385,856.45		\$ 18,271,712.90	\$ 18,271,712.9
Oct 01, 2048	5.04%	\$ 15,500,000.00 \$ -	\$ - \$ -	\$ - \$ -	\$ 15,500,000.00		\$ 948,988.95		10,2/1,/12.9 ب
Apr 01, 2048	- 5 6/%	\$ - \$ 16,375,000.00		\$ - \$ -	\$. ,	\$ 18,272,977.90	\$ 18 272 977 9
Oct 01, 2049			\$ -	\$ - \$ -	\$ 16,375,000.00	\$ 487,459.58		÷ 10,212,311.30	γ 10,212,311.9
Apr 01, 2049		\$ 17,295,000.00		ş -	\$ 17,295,000.00			\$ 18,269,919.16	\$ 18 269 919 1
	5.04/0		\$ -	-		\$ 352,762,942.38			

Exhibit I



RETIREE HEALTHCARE PLAN

BARTEL Issociates, llc

June 30, 2019 Actuarial Valuation Final Results

Bartel Associates, LLC

Mary Beth Redding, Vice President & Actuary Catherine Wandro, Assistant Vice President & Actuary Daniel Park, Actuarial Analyst

July 30, 2020

Contents

<u>Topic</u>	Page
Benefit Summary	1
Participant Statistics	7
Actuarial Assumption Highlights	11
Actuarial Methods	17
Assets	19
Results	25
Bartel Associates OPEB Database	37
Actuarial Certification	40
Exhibits	41

BENEFIT SUMMARY

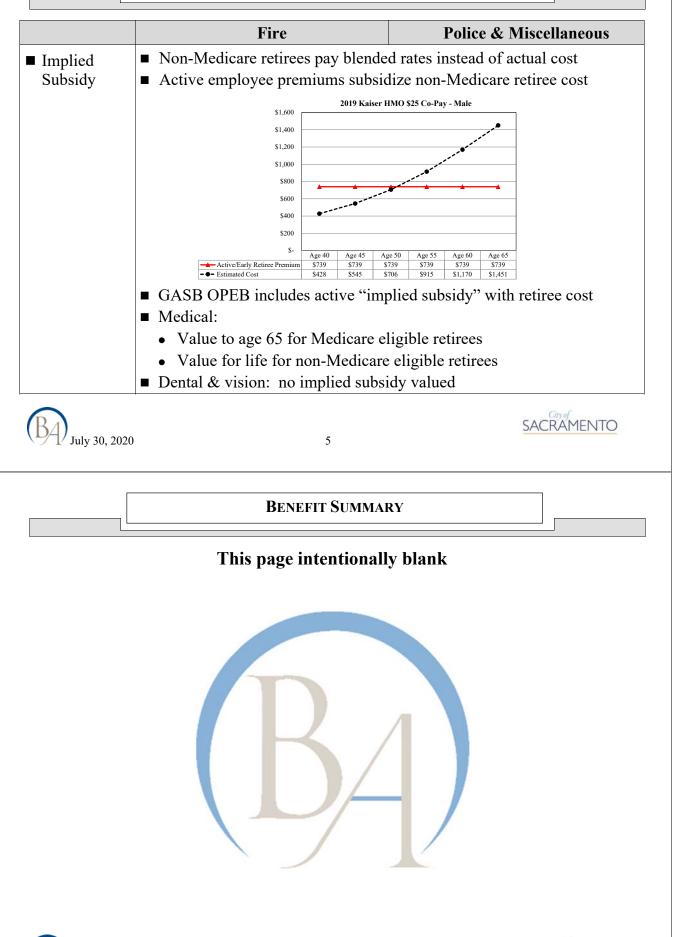
	Fire	Police & Miscellaneous					
Fligibility		I once & ivitscenaneous					
Eligibility	Retire directly from the City:						
	• Age 50 & 10 years City service, or						
	• 30 years City service, or						
	• Industrial disability, or						
	• Death in line of duty						
Benefit for	Retire before 1/1/20:	Retiree only - \$300/mo					
Hires before	• Retiree only - lowest cost \$25	■ Retiree + Dependents - \$365/mo					
Plan Change	co-pay medical plan premium						
Date	plus additional 5.28% of cost						
Madiaal	plus lowest cost PPO dental						
Medical, Dental &	plan premium, plus \$25						
Vision	• Retire on or after $1/1/20$:						
(IBIOII	• Exclude 5.28% multiplier						
	2019 = \$860.60/mo						
	2020 = \$897.55 / mo (DOR < 1/1/20) $\$856.90 / mo (DOR \ge 1/1/20)$						
BA) July 30, 2020	1	SACRAMENTO					
BA) July 30, 2020	1	SACRAMENTO					
BA) July 30, 2020	1 Benefit Summa	SACRAMENTO					
BA July 30, 2020		SACRAMENTO					
	BENEFIT SUMMA Fire	SACRAMENTO RY					
Vesting Schedule	Benefit Summa	SACRAMENTO RY Police & Miscellaneous					
Vesting	BENEFIT SUMMA Fire Service <u>% of Cap</u>	SACRAMENTO RY Police & Miscellaneous					
Vesting	BENEFIT SUMMA Fire Service <u>% of Cap</u> 10 50%	SACRAMENTO RY Police & Miscellaneous					
Vesting	BENEFIT SUMMA Fire Service % of Cap 10 50% 15 75%	SACRAMENTO RY Police & Miscellaneous					
Vesting Schedule Medical	BENEFIT SUMMA Fire Service % of Cap 10 50% 15 75% 20+ 100% ID&D Disability 100% ■ Retiree may participate in City m	RY Police & Miscellaneous Same edical plans or purchase outside plans					
Vesting Schedule	BENEFIT SUMMA Fire Service % of Cap 10 50% 15 75% 20+ 100% ID&D Disability 100%	RY Police & Miscellaneous Same edical plans or purchase outside plans					
Vesting Schedule Medical Plans	BENEFIT SUMMA Fire Service % of Cap 10 50% 15 75% 20+ 100% ID&D Disability 100% ■ Retiree may participate in City m	RY Police & Miscellaneous Same edical plans or purchase outside plans to the cap					
Vesting Schedule Medical Plans Benefit for Hires after	BENEFIT SUMMA Fire Service % of Cap 10 50% 15 75% 20+ 100% ID&D Disability 100% Retiree may participate in City m and be reimbursed by the City up	RY Police & Miscellaneous Same edical plans or purchase outside plans to the cap on but allowed to participate in City					
Vesting Schedule Medical Plans Benefit for Hires after Plan Change	BENEFIT SUMMA Fire Service % of Cap 10 50% 15 75% 20+ 100% ID&D Disability 100% Retiree may participate in City m and be reimbursed by the City up Benefit: No City cash contribution	SACRAMENTO RY Police & Miscellaneous • Same • Same edical plans or purchase outside plans to the cap on but allowed to participate in City emium if hired after:					
Vesting Schedule Medical Plans Benefit for Hires after	BENEFIT SUMMA Fire Service % of Cap 10 50% 15 75% 20+ 100% ID&D Disability 100% Retiree may participate in City m and be reimbursed by the City up Benefit: No City cash contribution health plans by paying the full product of the second	RY Police & Miscellaneous Same edical plans or purchase outside plans to the cap on but allowed to participate in City emium if hired after: and Stationary Engineers Units					
Vesting Schedule Medical Plans Benefit for Hires after Plan Change	BENEFIT SUMMA Fire Service % of Cap 10 50% 15 75% 20+ 100% ID&D Disability 100% Retiree may participate in City m and be reimbursed by the City up Benefit: No City cash contribution health plans by paying the full pro- e 6/30/12 - Exempt Employees a	RY Police & Miscellaneous Same edical plans or purchase outside plans to the cap on but allowed to participate in City emium if hired after: and Stationary Engineers Units					
Vesting Schedule Medical Plans Benefit for Hires after Plan Change	BENEFIT SUMMA Fire Service % of Cap 10 50% 15 75% 20+ 100% ID&D Disability 100% Retiree may participate in City m and be reimbursed by the City up Benefit: No City cash contribution health plans by paying the full pro- 6/30/12 - Exempt Employees a • 7/20/12 - Unrepresented Employ	Police & Miscellaneous Police & Miscellaneous • Same edical plans or purchase outside plans to the cap on but allowed to participate in City emium if hired after: and Stationary Engineers Units byees					
Vesting Schedule Medical Plans Benefit for Hires after Plan Change	BENEFIT SUMMA Fire Service % of Cap 10 50% 15 75% 20+ 100% ID&D Disability 100% Retiree may participate in City m and be reimbursed by the City up Benefit: No City cash contribution health plans by paying the full pro- 6/30/12 - Exempt Employees at 7/20/12 - Unrepresented Employees at 9/3/13 - Police	RY Police & Miscellaneous Same edical plans or purchase outside plans to the cap on but allowed to participate in City emium if hired after: and Stationary Engineers Units oyees Fitters					



BENEFIT SUMMARY

	F	Fire	Police &	Police & Miscellaneous			
Pre 1/1/91	■ None		■ Eligibility: A	■ Eligibility: Age 50 & 10 years			
Deferred			■ Benefit: Pre	-plan change benefit			
Retirement				<u>%</u>			
			-	50%			
				100%			
Surviving Spouse Benefit	■ Same benefit co	ontinues to survi	lving spouse				
Other OPEB	 No City contrib 	No City contribution for life insurance or Medicare Part B premiums					
Fire Department Unit Trust	 Effective 6/27/2 Sub-account in account Member Contri City Contributions descriptions descriptions 	City's CERBT ibution: \$45/mo on: \$45/mo liscontinued	■ n/a				
RA	12/31/19 per cu	urrent MOU		SACRAMENTO			
BA July 30, 2020		3 BENEFIT SUMM	 1ARY	SACRAMENTO			
BA July 30, 2020		3	1ARY	SACRAMENTO			
BA July 30, 2020)	3		SACRAMENTO			
)	3 Benefit Summ					
Pay-As- You-Go)) 	3 BENEFIT SUMM	Police &	SACRAMENTO			
Pay-As- You-Go Costs) Fiscal Year	3 BENEFIT SUMM Fire <u>Cash</u>	Police & Implied Subsidy	SACRAMENTO Miscellaneous <u>Total</u>			
Pay-As- You-Go) Fiscal Year FY 2018/19	3 BENEFIT SUMM Fire <u>Cash</u> \$10,407	Police & Implied Subsidy \$4,483	SACRAMENTO SACRAMENTO			
Pay-As- You-Go Costs	■ FY 2017/18	3 BENEFIT SUMM Fire <u>Cash</u> \$10,407 \$10,123	Police & Implied Subsidy \$4,483 \$2,780	SACRAMENTO SACRAM			
Pay-As- You-Go Costs) Fiscal Year FY 2018/19 FY 2017/18 FY 2016/17	3 BENEFIT SUMM Fire <u>Cash</u> \$10,407 \$10,123 \$10,011	Police & Implied Subsidy \$4,483 \$2,780 \$2,554	SACRAMENTO SACRAMENTO SACRAMENTO SI2,903 \$12,903 \$12,565			
Pay-As- You-Go Costs	Fiscal Year Fiscal Year FY 2018/19 FY 2017/18 FY 2016/17 FY 2015/16	3 BENEFIT SUMM Fire <u>Cash</u> \$10,407 \$10,123 \$10,011 \$9,847	Police & Implied Subsidy \$4,483 \$2,780 \$2,554 \$2,516	SACRAMENTO SACRAMENTO SACRAMENTO SI2,903 \$12,903 \$12,565 \$12,363			
Pay-As- You-Go Costs	Fiscal Year Fiscal Year FY 2018/19 FY 2017/18 FY 2016/17 FY 2016/17 FY 2015/16 FY 2014/15	3 BENEFIT SUMM Fire <u>Cash</u> \$10,407 \$10,123 \$10,011 \$9,847 \$9,904	Police & Implied Subsidy \$4,483 \$2,780 \$2,554 \$2,516 \$3,620	SACRAMENTO SACRAMENTO SACRAMENTO SI2,903 \$12,903 \$12,903 \$12,565 \$12,363 \$13,524			
Pay-As- You-Go Costs	Fiscal Year Fiscal Year FY 2018/19 FY 2017/18 FY 2016/17 FY 2015/16 FY 2014/15 FY 2013/14	3 BENEFIT SUMM Fire <u>Cash</u> \$10,407 \$10,123 \$10,011 \$9,847 \$9,904 \$9,970	Police & Implied Subsidy \$4,483 \$2,780 \$2,554 \$2,516 \$3,620 \$3,503	SACRAMENTO SACRAMENTO SACRAMENTO SI2,903 \$12,903 \$12,903 \$12,565 \$12,363 \$12,363 \$13,524 \$13,473			

BENEFIT SUMMARY



PARTICIPANT STATISTICS

	Misc	Police	Fire	Total
 Actives 				
• Count	2,636	687	569	3,892
Average Age	44.6	37.8	42.4	43.1
Average City Service	10.3	11.8	13.7	11.1
Average PERSable Salary	\$ 75,389	\$ 94,579	\$ 99,884	\$ 82,357
• Total Salary (\$000's)	198,725	64,976	56,834	320,534
■ Pre 1/1/91 Inactive Vested				
• Count	8	-	-	8
Average Age	69.0	-	-	69.2
Retirees				
Count - Medical	1,113	231	426	1,770
• Count - Dental	1,658	543	471	2,672
Count - Vision	827	308	277	1,412
• Count - In Lieu	152	134	16	302
• Count - Total	2,023	628	510	3,161
Average Age	71.6	67.4	71.0	70.6
Average Retirement Age	58.6	50.8	54.2	56.4

Participant Statistics – June 30, 2019

July 30, 2020

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SACRAMENTO

PARTICIPANT STATISTICS

7

Participant Statistics – June 30, 2017

<u> </u>		<u>5 June 20,</u>	2011	
	Misc	Police	Fire	Total
 Actives 				
• Count	2,393	761	562	3,716
Average Age	46.0	38.2	42.0	43.8
Average City Service	11.5	12.1	13.3	11.9
Average PERSable Salary	\$ 66,422	\$ 89,574	\$ 104,660	\$ 76,946
• Total Salary (\$000's)	158,947	68,166	58,819	285,932
■ Pre 1/1/91 Inactive Vested				
• Count	10	-	-	10
Average Age	67.0	-	-	67.0
Retirees				
Count - Medical	1,133	314	400	1,847
Count - Dental	1,583	518	472	2,573
Count - Vision	675	229	241	1,145
• Count - In Lieu	102	46	41	189
Count - Total	2,093	622	521	3,236
Average Age	71.3	66.9	71.0	70.4
Average Retirement Age	58.6	50.9	54.4	56.4

July 30, 2020

PARTICIPANT STATISTICS

Actives Participants	Misc	Police	Fire	Total
June 30, 2017 Valuation	2,393	761	562	3,716
• New Hires	715	110	56	881
• Departures	(299)	(148)	(20)	(467)
• New Retirements	(173)	(36)	(29)	(238)
• Adjustments	-	-	-	-
■ June 30, 2019 Valuation	2,636	687	569	3,892

<u>Participant Reconciliation – Actives</u>



9

PARTICIPANT STATISTICS

<u>Participant Reconciliation – Retirees</u>

Retired Participants	Misc	Police	Fire	Total
June 30, 2017 Valuation	2,093	622	521	3,236
• Departures	(278)	(34)	(50)	(362)
• New Retirements	173	36	29	238
• Adjustments	35	4	10	49
■ June 30, 2019 Valuation	2,023	628	510	3,161



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ACTUARIAL ASSUMPTIONS HIGHLIGHTS

	June 30, 2017 Valuation	June 30, 2019 Valuation
Valuation Date	 June 30, 2017 Fiscal Years 2018/19 & 2019/20 	 June 30, 2019 Fiscal Years 2020/21 & 2021/22
Discount Rate	 3.95% Based on closed group crossover analysis following GASBS 75 methodology: Projected City contributions of \$1.5 million each year 6.75% rate for funded benefits and S&P 20-year bond index rate (3.13% as of 6/30/17) for pay-go only CERBT asset allocation strategy #1 (57% global equity, 27% fixed income, 5% TIPS, 8% REITs, 3% commodities) 	 6.75% Based on closed group crossover analysis following GASBS 75 methodology: Projected City contributions of \$1.5 million each year 6.75% rate for funded benefits and S&P 20-year bond index rate (2.79% as of 6/30/19) for pay-go only CERBT asset allocation strategy #1 (59% global equity, 25% fixed income, 5% TIPS, 8% REITs, 3% commodities)



11

ACTUARIAL ASSUMPTIONS HIGHLIGHTS

	June 30, 2017 Valuation	June 30, 2019 Valuation
■ Inflation	2 .75%	■ Same
 Retirement, Mortality, Termination, Disability 	 CalPERS – 1997-2011 Experience Study SCERS – 6/30/17 Valuation Assumptions (limited applicability) Mortality projected fully generational with Scale MP-16 	 CalPERS – 1997-2015 Experience Study SCERS – 6/30/19 Valuation Assumptions (limited applicability) Mortality projected fully generational with Scale MP-19

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ACTUARIAL ASSUMPTIONS HIGHLIGHTS

	June	30, 20	017 Va	aluati	June 30, 2019 Valuation	
 Participation at Retirement 	fiscal y	years 2015 to 2017, varies of cash benefit earned at				■ Same
		%	of Bene	fit Earr	ned	
	Plan	0%	50%	75%	100%	
	M&D&V	10%	23%	30%	35%	
	D & V	10%	40%	35%	30%	
	M & D	0%	10%	14%	20%	
	M & V	0%	3%	0%	4%	
	M Only	10% 12% 9.5% 7%				
	D Only	10% 3% 1.5% 0.5%				
	V Only	0%	0%	1%	0.5%	
	M = Medi	cal, D =	= Denta	l, V = V	Vision	



SACRAMENTO

13

ACTUARIAL ASSUMPTIONS HIGHLIGHTS

	Jun	e 30, 2017 Va	luation	Jun	e 30, 2019 Va	luation
 Medical Trend 		Increase from	n Prior Year	Increase from Prior Year		
(Increase in	Year	Non-Medicare	Medicare	Year	Non-Medicare	Medicare
	2017	Actual 2017	Premiums	2017	n/a	ı
health care	2018	Actual 2018	Premiums	2018	n/a	ı
costs for all	2019	7.50%	6.50%	2019	Actual 2019	Premiums
reasons except	2020	7.50%	6.50%	2020	Actual 2020	Premiums
aging)	2021	7.25%	6.30%	2021	7.25%	6.30%
aging)	2022	7.00%	6.10%	2022	7.00%	6.10%
	2023	6.75%	5.90%	2023	6.75%	5.90%
	2024	6.50%	5.70%	2024	6.50%	5.70%
	2025	6.25%	5.50%	2025	6.25%	5.50%
	2026	6.00%	5.30%	2026	6.00%	5.30%
	2027	5.80%	5.15%	2027	5.80%	5.15%
	2028	5.60%	5.00%	2028	5.60%	5.00%
	2029	5.40%	4.85%	2029	5.40%	4.85%
	2030	5.20%	4.70%	2030	5.20%	4.70%
	2031-35	5.05%	4.60%	2031-35	5.05%	4.60%
	2036-45	4.90%	4.50%	2036-45	4.90%	4.50%
	2046-55	4.75%	4.45%	2046-55	4.75%	4.45%
	2056-65	4.60%	4.40%	2056-65	4.60%	4.40%
	2066-75	4.30%	4.20%	2066-75	4.30%	4.20%
	2076 +	4.00%	4.00%	2076+	4.00%	4.00%



ACTUARIAL ASSUMPTIONS HIGHLIGHTS

	June 30, 2017 Valuation	June 30, 2019 Valuation				
Dental & Vision Trend	2 .75%	■ Same				
Cap Increase Rates	 Lowest cost \$25 co-pay medical premium – medical trend Lowest cost PPO dental premium – dental trend Lowest cost PPO dental premium – dental trend 	 Lowest cost \$25 co-pay medical premium – medical trend Lowest cost PPO dental premium – dental trend All Misc, All Police, and Fire Lowest cost \$25 co-pay medical premium – medical trend Lowest cost \$20 co medical premium trend Lowest cost \$20 co medical premium trend Misc and Police: 09 	 Lowest cost \$25 co-pay medical premium – medical trend Lowest cost PPO dental premium – dental trend All Misc, All Police, and Fire Lowest cost Misc and Police 	 Lowest cost \$25 co-pay medical premium – medical trend Lowest cost PPO dental premium – dental trend All Misc, All Police, and Fire Lowest cost \$25 co-pay medical premium – tendation Misc and Police: 0% 	 ap Increase ates Fire hired before 1/14/15: Lowest cost \$25 co-pay medical premium – medical trend Lowest cost PPO dental premium – dental trend Lowest cost PPO dental premium – dental trend All Misc, All Police, and Fire 	
 Affordable Care Act (ACA) Excise Tax 	 2% liability load on cash subsidy to estimate impact 	NoneRepealed December 2019				
BA July 30, 2020	15	SACRAMENTO				
	ACTUARIAL ASSUMPTIONS H	HIGHLIGHTS				
	June 30, 2017 Valuation	June 30, 2019 Valuation				
 Basis for Assumptions 	No experience study performed the participation at retirement as	for this Plan with the exception of sumption, which is based on				

	June 30, 2017 Valuation	June 30, 2019 Valuation				
■ Basis for	■ No experience study performed f	or this Plan with the exception of				
Assumptions	the participation at retirement assumption, which is based on					
	retirements during fiscal years 20	015 to 2017.				
	CalPERS 1997-2015 experience	· 1 1				
	the CalPERS plan, SCERS 6/30/	19 Valuation assumptions for				
	participants in the SCERS plan (l	11 .				
	Mortality improvement is based of	on Society of Actuaries tables				
	Inflation is based on our estimate	for the Plan's long-term time				
	horizon					
	Age-based claims for the June 30					
	factors published by the Society of					
	Short-term trend was developed i					
	Healthcare Partners' healthcare a	ctuaries. Long-term trend was				
	developed using Society of Actua	aries Getzen Model of Long-Run				
	Medical Cost Trends.					
	 Spouse participation based in par 	t on Plan experience				



ACTUARIAL METHODS

Method	June 30, 2017 Valuation	June 30, 2019 Valuation
Cost Method	Entry Age Normal Cost method	
Funding Policy	 Premiums paid from City resource Pre-funding: Continue budget appendix 	propriations as well as contribute
Actuarial Value of Assets	 Not less than 80% nor mor Allocation to Misc/Police/Fire: Fire Department Unit Trust 	read over 5-year rolling period e than 120% of market value t assets allocated to Fire group to Misc/Police/Fire in proportion to
Amortization Method	Level percent of payroll (paymer	nts escalate 3% per year)
Amortization Period	 20 year closed amortization of 6/30/18 UAAL 	 18 year closed amortization of 6/30/20 UAAL
BA July 30, 2020	17	
	ACTUARIAL METHO	DDS
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~		

ASSETS

	2017/18			2018/19			
		Fire Unit		Fire Unit			
Market Value of Assets	City	Trust	Total	City	Trust	Total	
■ MVA (Beg. of Year)	\$25,183	\$1,258	\$26,441	\$35,073	\$1,984	\$37,057	
Contribution	7,861	615	8,476	3,213	606	3,819	
Benefit Payment	(0)	(0)	(0)	(0)	(0)	(0)	
• Admin. Expenses	(14)	(1)	(15)	(17)	(1)	(18)	
• Inv. Expenses	(10)	(1)	(11)	(13)	(1)	(14)	
• Investment Return	2,052	113	2,165	2,292	159	2,450	
■ MVA (End of Year)	35,073	1,984	37,057	40,548	2,747	43,294	
 Approx. Annual Return 		<u>.</u>	7.6%			6.4%	

Market Value of Plan Assets (Amounts in 000's)

BA	July 30, 2020
	•

SACRAMENTO

ASSETS

19

Market Value of Plan Assets (Amounts in 000's)

	Projected 2019/20				
Market Value of Assets	City	Fire Unit Trust	Total		
■ MVA (Beg. of Year)	\$40,548	\$2,747	\$43,294		
Contribution	8,834	310 ¹	9,144		
Benefit Payment	(0)	(0)	(0)		
• Admin. Expenses	(22)	(1)	(23)		
• Inv. Expenses	-	-	-		
• Net Investment Return ²	2,960	201	3,162		
■ MVA (End of Year)	52,320	3,257	55,577		
 Projected Annual Return 			6.75%		

¹

Contributions to Fire Unit Trust discontinued 12/31/19 per current Fire MOU. Assets projected to 6/30/20 based on contributions as of the 3/31/20 CERBT statements and an expected 2019/20 investment 2 return of 6.75%.





ASSETS

(Amounts in 000's)						
	2017/18 ³			2018/19		
Actuarial Value of Assets	City	Fire	Total	City	Fire	Total
AVA (Beginning of Year)	\$24,807	\$1,234	\$26,041	\$34,556	\$1,959	\$36,515
Employer/Employee Contribution	7,861	615	8,476	3,213	606	3,819
Benefit Payment	-	-	-	-	-	-
• Expected Investment Return ⁴	1,759	<u>104</u>	1,863	2,354	153	2,507
Expected AVA (End of Year)	34,427	1,953	36,380	40,123	2,718	42,841
■ MVA (End of Year)	35,073	1,984	37,057	40,548	2,747	43,294
■ 1/5 of (MVA – Expected AVA)	129	6	135	85	6	91
Preliminary AVA ⁵	34,556	1,959	36,515	40,208	2,724	42,932
• Minimum AVA (80% of MVA)	28,058	1,587	26,645	32,438	2,198	34,635
• Maximum AVA (120% of MVA)	42,088	2,381	44,469	48,658	3,296	51,953
■ AVA (End of Year)	34,556	1,959	36,515	40,208	2,724	42,932
Approximate Annual Return			7.2%			7.0%

Actuarial Value of Plan Assets (Amounts in 000's)

3 Revised based on actual 6/30/18 MVA.

4 Expected investment return of 6.75%.

5 Expected AVA plus 20% of the difference between the MVA and expected AVA.

July 30, 2020

	ASSETS					
Γ	Actuarial Value of Plan Assets (Amounts in 000's)					
	Actuarial Value of Assets	City	jected 201 Fire	Total		
I	AVA (Beginning of Year)	\$40,208	\$2,724	\$42,932		
	• Employer/Employee Contribution	8,834	310	9,144		
	Benefit Payment	-	-	-		

21

Benefit Payment	-	-	-
• Expected Investment Return ⁶	2,937	194	3,131
Expected AVA (End of Year)	51,979	3,228	55,207
MVA (End of Year)	52,320	3,257	55,577
■ 1/5 of (MVA – Expected AVA)	68	6	74
Preliminary AVA ⁷	52,047	3,234	55,281
• Minimum AVA (80% of MVA)	41,856	2,605	44,461
• Maximum AVA (120% of MVA)	62,784	3,908	66,692
AVA (End of Year)	52,047	3,234	55,281

⁶ Expected investment return of 6.75%.
 ⁷ Expected AVA plus 20% of the difference between the MVA and expected AVA.

Approximate Annual Return



6.9%

SACRAMENTO

22





	RESULTS	
L		

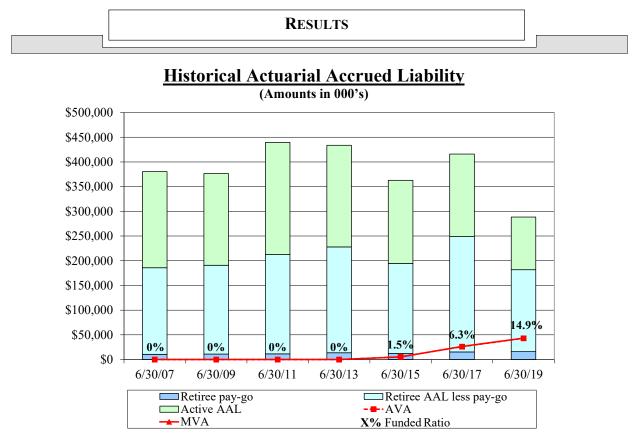
Actuarial Obligations

(Amounts in 000's)						
	6/30/17	Valuation	6/30/19 Valuation			
Discount Rate	3.9	95%	6.7	5%		
		Projected		Projected		
	6/30/17	to 6/30/18	6/30/19	to 6/30/20		
Present Value of Benefits						
• Actives	\$ 290,592		\$ 161,856			
• Retirees	248,926		<u>181,853</u>			
• Total	539,518		343,709			
Actuarial Accrued Liability						
• Actives	167,031		106,546			
• Retirees	248,926		181,853			
• Total	415,957	\$ 428,858	288,399	\$ 298,341		
Actuarial Value of Assets	(26,041)	(29,432)	(42,932)	(55,281)		
Unfunded AAL	389,916	399,426	245,467	243,060		
AVA Funded Ratio	6.3%		14.9%			
Normal Cost		11,834		6,345		
Pay-As-You-Go Cost		15,343		16,001		

25

3A) July 30, 2020

SACRAMENTO





Estimated Actuarial Gain/Loss Analysis (Amounts in 000's)

	AAL
■ Actual on 6/30/17	\$ 415,957
■ Expected on 6/30/19	441,988
■ Experience (Gains)/Losses:	
• Premiums/Claims/Caps different than expected	(19,203)
• Demographic ⁸	(9,397)
Assumption Changes:	
 CalPERS 1997-2015 Experience Study 	4,032
 Mortality Improvement Scale MP-2019 	(6,016)
Remove ACA Excise Tax	(5,376)
Discount Rate	(118,159)
Benefit Change for Fire Group	530
■ Total (Gains)/Losses	(153,589)
■ Actual on 6/30/19	288,399

⁸ Mainly decrements different from expected (mortality, retirement, disability, termination), and fewer retiring employees than expected electing coverage.

27

July 30, 2020

RESULTS

Schedule of Funding Progress

(Amounts in 000's)

Actuarial Valuation Date ⁹	Actuarial Value of Assets	Entry Age Actuarial Accrued Liability (b)	Unfunded Actuarial Accrued Liability (b-a)	Funded Ratio (a/b)	Covered Payroll (c)	UAAL as Percentage of Covered Payroll ((b-a)/c)
6/30/07	(a) \$ -	\$ 380,373	\$ 380,373	(a/D) 0.0%	\$ 266,317	142.8%
6/30/09	φ -	376,417	376,417	0.0%	275,252	136.8%
6/30/11	-	439,592	439,592	0.0%	253,528	173.4%
6/30/12	-	447,406	447,406	0.0%	261,768	170.9%
6/30/13	-	433,695	433,695	0.0%	257,498	168.4%
6/30/15	5,461	362,824	357,363	1.5%	270,677	132.0%
6/30/17	26,041	415,957	389,916	6.3%	285,932	136.4%
6/30/19	42,932	288,399	245,467	14.9%	320,534	76.6%

9 The valuations for 6/30/07 through the 6/30/11 are based on a 4.25% discount rate. The 6/30/13 & 6/30/15 valuations are based on a 4.50% discount rate. The 6/30/17 valuation is based on a 3.95% discount rate, and the 6/30/19 valuation is based on a 6.75% discount rate.



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	6/30/17 V	6/30/17 Valuation		aluation
	2018/19	2019/20	2020/21	2021/22
■ ADC - \$				
Normal Cost	\$ 11,834	\$ 11,966	\$ 6,345	\$ 6,437
 UAAL Amortization 	22,620	<u>24,344</u>	<u>19,203</u>	20,442
• ADC (End of Year)	34,454	36,310	25,548	26,879
Projected Payroll	303,345	312,446	330,150	340,055
ADC - % Total Payroll				
Normal Cost	3.9%	3.8%	1.9%	1.9%
 UAAL Amortization 	7.5%	7.8%	5.8%	6.0%
• ADC	11.4%	11.6%	7.7%	7.9%

Actuarially Determined Contribution (ADC) (Amounts in 000's)



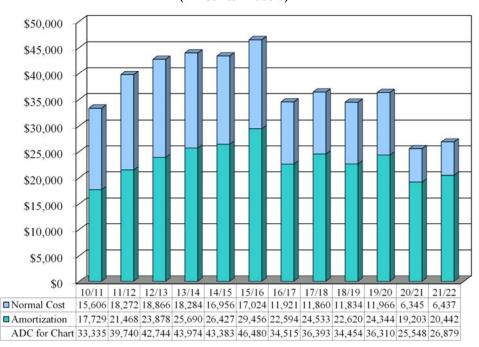
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RESULTS

29

Historical Actuarially Determined Contributions

(Amounts in 000's)







(Amounts in 000's)						
	Cash	Implied	T ()			
	Subsidy	Subsidy	Total			
Present Value of Benefits						
• Actives	\$ 91,383	\$ 70,473	\$ 161,856			
• Retirees	<u>126,047</u>	55,806	<u>181,853</u>			
• Total	217,430	126,279	343,709			
Actuarial Accrued Liability						
Actives	60,167	46,379	106,546			
• Retirees	<u>126,047</u>	55,806	<u>181,853</u>			
• Total	186,214	102,185	288,399			
Actuarial Value of Assets ¹⁰	<u>(42,932)</u>		(42,932)			
Unfunded AAL	143,282	102,185	245,467			
AVA Funded Ratio	23.1%	n/a	14.9%			
■ Normal Cost 2020/21	3,653	2,692	6,345			
Pay-As-You-Go 2020/21	11,216	4,785	16,001			

Actuarial Obligations by Cash/Implied Subsidy June 30, 2019

¹⁰ All assets allocated to cash subsidy.

July 30, 2020

31

RESULTS

Actuarially Determined Contribution (ADC) by Cash/Implied Subsidy 2020/21 Fiscal Year

(Amounts in 000's)

	Cash Subsidy	Implied Subsidy	Total
■ ADC - \$			
Normal Cost	\$ 3,653	\$ 2,692	\$ 6,345
• UAAL Amortization	<u>10,732</u>	8,471	<u>19,203</u>
• Total	14,385	11,163	25,548
Projected Payroll	330,150	330,150	330,150
■ ADC - %			
Normal Cost	1.1%	0.8%	1.9%
• UAAL Amortization	<u>3.3%</u>	<u>2.6%</u>	<u>5.8%</u>
• Total	4.4%	3.4%	7.7%

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	Misc	Police	Fire	Total
Present Value of Benefits				
• Actives	\$ 56,035	\$ 28,268	\$ 77,553	\$ 161,856
• Retirees	72,105	<u>35,463</u>	74,285	<u>181,853</u>
• Total	128,140	63,731	151,838	343,709
Actuarial Accrued Liability				
• Actives	41,436	18,503	46,607	106,546
• Retirees	72,105	<u>35,463</u>	74,285	181,853
• Total	113,541	53,966	120,892	288,399
Actuarial Value of Assets ¹¹	(15,830)	(7,524)	(19,578)	(42,932)
Unfunded AAL	97,711	46,442	101,314	245,467
Funded Ratio	13.9%	13.9%	16.2%	14.9%
Normal Cost 2020/21	1,992	1,143	3,210	6,345
Pay-As-You-Go 2020/21	7,678	2,864	5,459	16,001

Actuarial Obligations by Group (Amounts in 000's)

11 Fire Assets allocated to Fire group, remaining assets allocated to Misc/Fire/Police in proportion to liability.

July 30, 2020

SACRAMENTO

RESULTS

33

Actuarially Determined Contribution (ADC) by Group

2020/21 Fiscal Year (Amounts in 000's)

	Misc	Police	Fire	Total
■ ADC - \$				
 Normal Cost 	\$ 1,992	\$ 1,143	\$ 3,210	\$ 6,345
 UAAL Amortization 	7,539	<u>3,644</u>	8,020	<u>19,203</u>
• Total	9,531	4,787	11,230	25,548
Projected Payroll	204,687	66,925	58,539	330,150
■ ADC - %				
 Normal Cost 	1.0%	1.7%	5.5%	1.9%
 UAAL Amortization 	<u>3.7%</u>	<u>5.4%</u>	<u>13.7%</u>	<u>5.8%</u>
• Total	4.7%	7.2%	19.2%	7.7%

(Amounts in 000's)								
	Misc	Police	Fire	Total				
■ ADC - \$								
 Normal Cost 	\$ 2,035	\$ 1,165	\$ 3,237	\$ 6,437				
 UAAL Amortization 	8,026	<u>3,879</u>	8,537	20,442				
• Total	10,061	5,044	11,774	26,879				
Projected Payroll	210,827	68,933	60,295	340,055				
■ ADC - %								
 Normal Cost 	1.0%	1.7%	5.4%	1.9%				
 UAAL Amortization 	<u>3.8%</u>	<u>5.6%</u>	<u>14.2%</u>	<u>6.0%</u>				
• Total	4.8%	7.3%	19.5%	7.9%				

Actuarially Determined Contribution (ADC) by Group 2021/22 Fiscal Year

(BA) July 30, 2020

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RESULTS

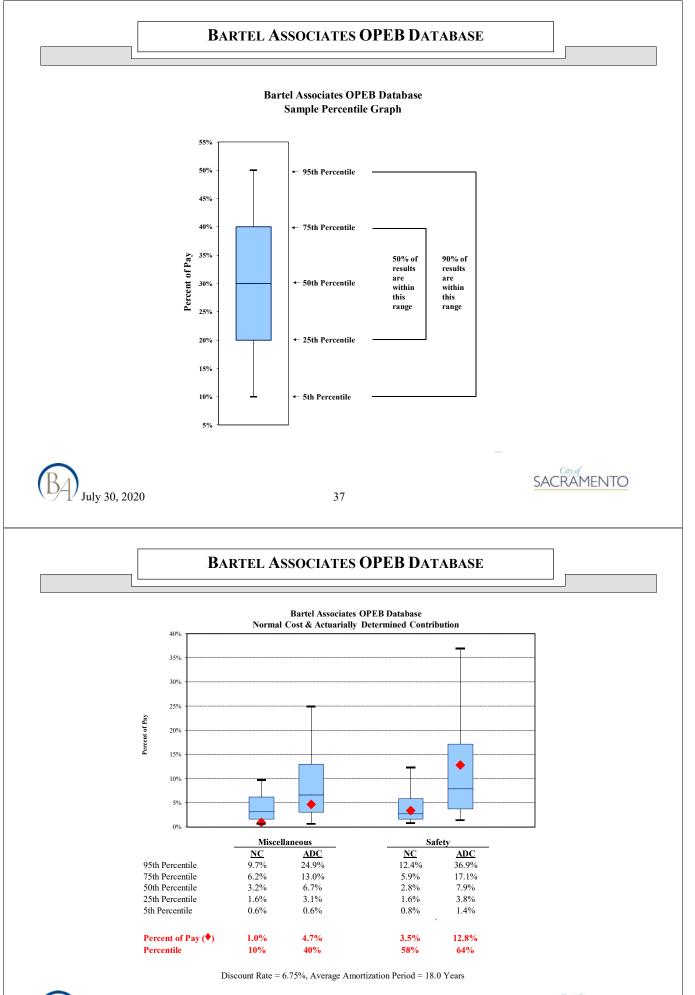
35

<u>10-Year Projection Illustration</u> (Amounts in 000's)

(Amounts in 600 s)									
		Ben	efit Payn	nents				ADC	Contrib
FYE								as	as
June		Cash	Implied		Pre-	Total		% of	% of
30,	ADC	Subsidy	Subsidy	Total	Fund ¹²	Contrib	Payroll	Payroll	Payroll
2021	\$25,548	\$11,216	\$4,785	\$16,001	\$1,500	\$17,501	\$330,150	7.7%	5.3%
2022	26,879	11,607	5,183	16,790	1,500	18,290	340,055	7.9%	5.4%
2023	28,308	12,049	5,487	17,536	1,500	19,036	350,256	8.1%	5.4%
2024	29,870	12,468	6,100	18,568	1,500	20,068	360,764	8.3%	5.6%
2025	31,554	12,877	6,699	19,576	1,500	21,076	371,587	8.5%	5.7%
2026	33,391	13,292	7,304	20,596	1,500	22,096	382,734	8.7%	5.8%
2027	35,427	13,724	7,909	21,633	1,500	23,133	394,216	9.0%	5.9%
2028	37,716	14,134	8,476	22,610	1,500	24,110	406,043	9.3%	5.9%
2029	40,349	14,483	9,089	23,572	1,500	25,072	418,224	9.6%	6.0%
2030	43,432	14,870	9,821	24,691	1,500	26,191	430,771	10.1%	6.1%

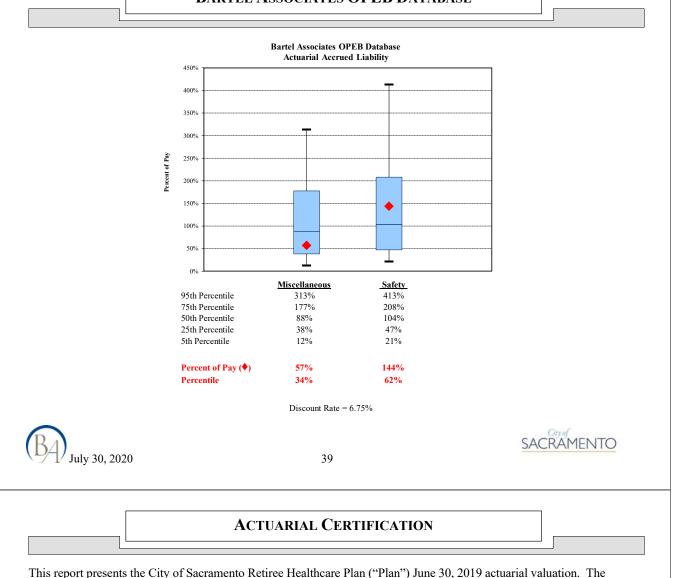
¹² Assumes the City contributes \$1.5 million per year into trust.





(BA) July 30, 2020

BARTEL ASSOCIATES OPEB DATABASE



purpose of this valuation is to:

- Determine the Plan's June 30, 2019 Funded Status and
- Calculate the 2020/21 and 2021/22 Actuarially Determined Contributions.

Information provided in this report may be useful to the City for the Plan's financial management. Future valuations may differ significantly if the Plan's experience differs from our assumptions or if there are changes in Plan design, actuarial methods, or actuarial assumptions. The project scope did not include an analysis of this potential variation.

The valuation is based on Plan provisions, participant data, and asset information provided by the City as summarized in this report, which we relied on and did not audit. We reviewed the participant data for reasonableness.

To the best of our knowledge, this report is complete and accurate and has been conducted using generally accepted actuarial principles and practices. As members of the American Academy of Actuaries meeting the Academy Qualification Standards, we certify the actuarial results and opinions herein.

Respectfully submitted,

May Ughet Redding

Mary Beth Redding, FSA, EA, MAAA, FCA Vice President Bartel Associates, LLC July 30, 2020

Catherine a. Wandro

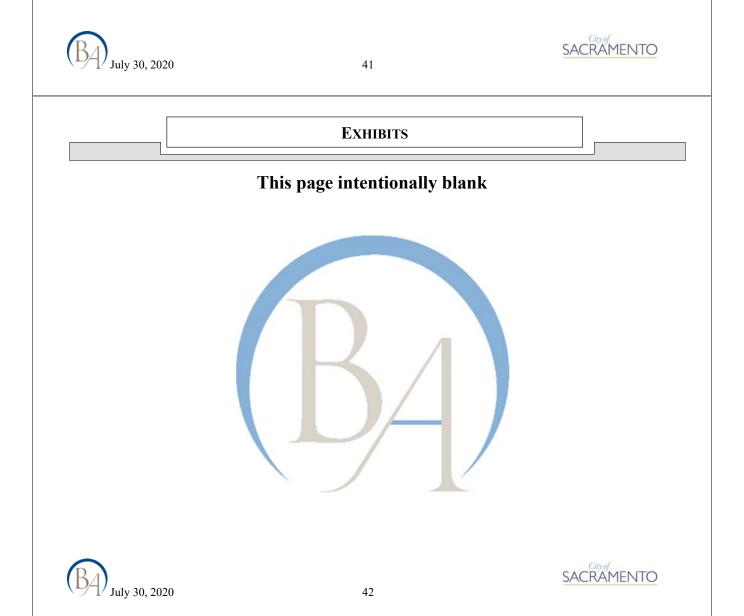
Catherine A. Wandro, ASA, MAAA, FCA Assistant Vice President Bartel Associates, LLC July 30, 2020





EXHIBITS

Торіс	Page
Premiums	E- 1
Data Summary	E- 7
Actuarial Assumptions	E-20
Definitions	E-30



<u>2019 Monthly Medical Premiums</u> Actives and Non Medicare Retirees

Medical Plan	Single	2-Party	Family
Kaiser HMO - \$25 Co-Pay	\$ 739.48	\$ 1,478.94	\$ 1,967.00
Kaiser HMO - \$40 Co-Pay	729.12	1,458.22	1,939.44
Kaiser HMO - ABHP (actives only)	601.74	1,203.48	1,600.64
Western Health Advantage - \$25 Co-Pay	756.04	1,512.04	2,011.06
Western Health Advantage - \$40 Co-Pay	743.16	1,486.32	1,976.82
Western Health Advantage - ABHP (actives only)	580.22	1,160.44	1,543.88
Sutter Health Plus - \$25 Co-Pay	758.90	1,517.72	2,019.88
Sutter Health Plus - \$40 Co-Pay	731.10	1,462.14	1,945.94
Sutter Health Plus - ABHP (actives only)	621.34	1,242.52	1,652.78



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E-1

PREMIUMS

2019 Monthly Medical Premiums Medicare Retirees

Medical Plan	Single	2-Party	Family
Kaiser Senior Advantage – \$20 Co-Pay	\$ 333.36	\$ 633.54	\$ 999.48
UHC Group Medicare Advantage PPO - \$15 Co-Pay	354.96	709.92	n/a



PREMIUMS

2019 Monthly Dental & Vision Premiums
Actives and Retirees

Dental Plan	Single	2-Party	Family
Delta Dental DPO	\$ 57.08	\$ 108.42	\$144.36
DeltaCare USA (DMO)	27.86	52.92	70.44

Vision Plan	Single	2-Party	Family
VSP - Basic	\$ 8.04	\$ 11.56	\$ 20.68
VSP - Enhanced	10.86	15.60	27.90



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E-3

PREMIUMS

<u>2020 Monthly Medical Premiums</u> Actives and Non Medicare Retirees

Medical Plan	Single	2-Party	Family
Kaiser HMO - \$25 Co-Pay	\$ 769.84	\$1,539.68	\$2,047.80
Kaiser HMO - \$40 Co-Pay	759.04	1,518.08	2,019.06
Kaiser HMO - ABHP (actives only)	626.42	1,252.84	1,666.28
Western Health Advantage - \$25 Co-Pay	785.34	1,570.62	2,088.96
Western Health Advantage - \$40 Co-Pay	771.94	1,543.90	2,053.40
Western Health Advantage - ABHP (actives only)	602.70	1,205.40	1,603.16
Sutter Health Plus - \$25 Co-Pay	781.72	1,563.38	2,080.80
Sutter Health Plus - \$40 Co-Pay	753.10	1,506.16	2,004.68
Sutter Health Plus - ABHP (actives only)	639.70	1,279.20	1,701.60

2020 Monthly Medical Premiums Medicare Retirees

Medical Plan	Single	2-Party	Family
Kaiser Senior Advantage – \$20 Co-Pay	\$ 348.10	\$ 661.56	\$ 1,043.70
UHC Group Medicare Advantage PPO - \$15 Co-Pay	365.00	730.00	n/a



E-5

PREMIUMS

2020 Monthly Dental & Vision Premiums Actives and Retirees

Dental Plan	Single	2-Party	Family
Delta Dental DPO	\$ 62.06	\$ 117.86	\$ 156.92
DeltaCare USA (DMO)	27.86	52.92	70.44

Vision Plan	Single	2-Party	Family
VSP - Basic	\$ 8.44	\$ 12.14	\$ 21.72
VSP - Enhanced	13.02	18.68	33.44



SACRAMENTO

Medical Plan Participation Non-Waived Participants June 30, 2019

		Retirees	
Plan	Actives	< 65	≥65
Kaiser HMO - \$25 Co-Pay (\$20 Co-Pay Post 65)	45%	49%	41%
Kaiser HMO - \$40 Co-Pay (\$20 Co-Pay Post 65)	9%	9%	28%
Kaiser HMO - ABHP	9%	0%	0%
Western Health Advantage - \$25 Co-Pay	7%	15%	1%
Western Health Advantage - \$40 Co-Pay	1%	3%	0%
Western Health Advantage - ABHP	3%	0%	0%
Sutter Health Plus - \$25 Co-Pay	14%	13%	2%
Sutter Health Plus - \$40 Co-Pay	10%	9%	0%
Sutter Health Plus - ABHP	2%	0%	0%
UHC Group Medicare Advantage PPO	0%	3%	28%
Total	100%	100%	100%

(BA) July 30, 2020

SACRAMENTO

E-7

DATA SUMMARY

Current Active Medical Coverage
June 30, 2019

Medical Plan	Single	2-Party	Family	Waived	Total
Kaiser HMO - \$25 Co-Pay	831	181	442	-	1,454
Kaiser HMO - \$40 Co-Pay	155	33	89	-	277
Kaiser HMO - ABHP	139	33	132	-	304
Western Health Adv \$25 Co-Pay	115	35	82	-	232
Western Health Adv \$40 Co-Pay	24	2	14	-	40
Western Health Adv ABHP	56	11	42	-	109
Sutter Health Plus - \$25 Co-Pay	212	63	163	-	438
Sutter Health Plus - \$40 Co-Pay	133	50	130	-	313
Sutter Health Plus - ABHP	36	8	30	-	74
Waived	-	-	-	651	651
Total	1,701	416	1,124	651	3,892

Medical Plan	Single	2-Party	Family	Waived	Total
Kaiser HMO - \$25 Co-Pay	152	35	14	-	201
Kaiser HMO - \$40 Co-Pay	15	16	7	-	38
Kaiser Senior Advantage	18	5	-	-	23
Western Health Adv. HMO- \$25 Co-Pay	50	15	3	-	68
Western Health Adv. HMO - \$40 Co-Pay	6	4	2	-	12
Sutter Health Plus HMO - \$25 Co-Pay	45	12	3	-	60
Sutter Health Plus HMO - \$40 Co-Pay	21	10	8	-	39
UHC Group Medicare Advantage PPO	12	-	-	-	12
In Lieu Reimbursement	-	-	-	64	64
Waived	-	-	-	423	423
Total	319	97	37	487	940

<u>Current Retiree Medical Coverage – Pre 65</u>



SACRAMENTO

E-9

DATA SUMMARY

<u>Current Retiree Medical Coverage – Post 65</u>

Medical Plan	Single	2-Party	Family	Waived	Total
Kaiser HMO - \$25 Co-Pay	40	7	-	-	47
Kaiser HMO - \$40 Co-Pay	4	-	-	-	4
Kaiser Colorado HMO	4	-	-	-	4
Kaiser Hawaii HMO	1	1	-	-	2
Kaiser Oregon HMO	7	3	-	-	10
Kaiser Senior Advantage	549	281	6	-	836
Western Health Adv. HMO - \$25 Co-Pay	14	2	1	-	17
Western Health Adv. HMO- \$40 Co-Pay	-	-	-	-	-
Sutter Health Plus HMO - \$25 Co-Pay	15	6	-	-	21
Sutter Health Plus HMO - \$40 Co-Pay	2	-	-	-	2
UHC Group Medicare Advantage PPO	272	102	-	-	374
In Lieu Reimbursement	-	-	-	231	231
Waived	-	-	-	673	673
Total	908	402	7	904	2,221

Dental Coverage June 30, 2019

Actives									
Dental Plan	Single	2-Party	Family	Waived	Total				
Delta Dental DPPO	1,246	492	1,120	-	2,858				
DeltaCare USA (DMO)	202	74	138	-	414				
Waived	-	-	-	620	620				
Total	1,448	566	1,258	620	3,892				

Retirees

Dental Plan	Single	2-Party	Family	Waived	Total
Delta Dental DPPO	1,200	1,132	213	-	2,545
DeltaCare USA (DMO)	76	46	5	-	127
Waived	-	-	-	489	489
Total	1,276	1,178	218	489	3,161



SACRAMENTO

E-11

DATA SUMMARY

Vision Coverage June 30, 2019

Actives Vision Plan Single 2-Party Family Waived Total VSP - Basic 331 1,478 474 673 -VSP - Enhanced 408 234 306 948 -Waived 1,466 ---1,466 Total 3,892 1,081 565 780 1,466

Retirees

Vision Plan	Single	2-Party	Family	Waived	Total
VSP - Basic	334	293	51	-	678
VSP - Enhanced	245	377	112	-	734
Waived	-	-	0	1,749	1,749
Total	579	670	163	1,749	3,161





Valuation Date	Medical Only	Dental Only	Both Medical & Dental	Neither Medical nor Dental	Total
6/30/2009	188	549	1,686	350	2,773
6/30/2011	309	592	1,478	431	2,810
6/30/2013	220	785	1,645	417	3,067
6/30/2015	214	863	1,601	446	3,124
6/30/2017	196	922	1,651	467	3,236
6/30/2019	195	1,097	1,575	294	3,161

Retiree Medical and Dental Participation



SACRAMENTO

E-13

DATA SUMMARY

Retiree Medical Plan Coverage by Age June 30, 2019 Miscellaneous

Age	Single	2-Party	Family	Waived	Total
Under 50	1	1	-	3	5
50-54	5	1	2	18	26
55-59	48	20	7	94	169
60-64	120	25	2	168	315
65-69	190	64	3	201	458
70-74	149	65	-	192	406
75-80	107	46	-	88	241
80-85	96	37	2	79	214
85 & Over	96	26	-	67	189
Total	812	285	16	910	2,023
Average Age	72.8	73.0	63.1	70.2	71.6





Age	Single	2-Party	Family	Waived	Total
Under 50	5	-	-	24	29
50-54	9	4	4	34	51
55-59	30	6	4	61	101
60-64	20	18	1	49	88
65-69	17	6	-	47	70
70-74	31	9	-	89	129
75-80	27	11	-	50	88
80-85	11	6	-	26	43
85 & Over	8	4	-	17	29
Total	158	64	9	397	628
Average Age	68.4	69.6	56.7	66.9	67.4

Retiree Medical Plan Coverage by Age June 30, 2019

(BA) July 30, 2020

DATA SUMMARY

E-15

<u>Retiree Medical Plan Coverage by Age</u> June 30, 2019

Fire

Age	Single	2-Party	Family	Waived	Total
Under 50	2	-	1	4	7
50-54	14	2	4	7	27
55-59	32	8	10	11	61
60-64	33	12	2	14	61
65-69	48	21	1	8	78
70-74	42	35	1	9	87
75-80	33	35	-	11	79
80-85	22	24	-	10	56
85 & Over	31	13	-	10	54
Total	257	150	19	84	510
Average Age	70.7	74.1	56.9	69.4	71.0

				ine 30, 20 iscellane							
	City Service										
Age	< 1	1-4	5-9	10-14	15-19	20-24	≥25	Total			
< 25	37	45	3	-	-	-	-	85			
25-29	75	152	15	2	-	-	-	244			
30-34	62	170	50	14	6	-	-	302			
35-39	48	165	60	59	25	6	-	363			
40-44	36	113	61	61	47	23	1	342			
45-49	22	89	41	73	76	27	28	356			
50-54	18	58	40	64	82	48	59	369			
55-59	9	37	35	52	57	41	91	322			
60-64	2	20	13	39	42	28	47	191			
≥65	2	10	10	12	14	5	9	62			
Total	311	859	328	376	349	178	235	2,636			

Actives by Age and Service

(B) July 30, 2020 SACRAMENTO

E-17

DATA SUMMARY

	<u>Actives by Age and Service</u> June 30, 2019 Police										
		City Service									
Age	< 1	1-4	5-9	10-14	15-19	20-24	≥25	Total			
< 25	13	26	-	-	-	-	-	39			
25-29	18	111	16	-	-	-	-	145			
30-34	3	45	28	14	2	-	-	92			
35-39	4	12	15	65	18	1	-	115			
40-44	-	2	2	32	58	26	1	121			
45-49	-	-	2	12	37	53	19	123			
50-54	-	1	-	4	9	17	15	46			
55-59	-	-	-	1	-	1	2	4			
60-64	-	-	-	-	-	1	-	1			
≥65	-	-	-	-	-	-	1	1			
Total	38	197	63	128	124	99	38	687			

July 30, 2020

SACRAMENTO

		<u>A</u>		<u>Age and</u> ne 30, 201 Fire		2		
_				City S	bervice	11		
Age	< 1	1-4	5-9	10-14	15-19	20-24	≥ 25	Total
< 25	4	-	-	-	-	-	-	4
25-29	7	34	1	-	-	-	-	42
30-34	6	50	27	4	-	-	-	87
35-39	3	21	17	39	15	-	-	95
40-44	2	8	5	36	46	6	-	103
45-49	-	3	2	24	53	31	4	117
50-54	-	-	1	4	28	33	23	89
55-59	1	-	-	3	4	8	10	26
60-64	-	1	-	1	-	-	4	6
≥65	-	-	-	-	-	-	-	-
Total	23	117	53	111	146	78	41	569
July 30,	2020			E-19				
/ I / July 30,	2020		ACTUARI	E-19	MPTIONS			
/ [/ July 30, .			ACTUARI , 2017 Va	IAL ASSUN		June 30, 2	.019 Valua	ation
Valuatior	n I J	June 30 June 30, 2	, 2017 V a 017	IAL ASSUM	June June June June June June June June	ne 30, 201	9	
Valuatior Date		June 30 June 30, 2 Fiscal Yea	, 2017 V a 017	IAL ASSUM	/20 ■ Fis	ne 30, 201 scal Years		
Valuatior Date Discount	n B J A B J A B J	June 30 June 30, 2 Fiscal Yea 3.95%	, 2017 Va 017 urs 2018/1	AL ASSUM	/20 = Fis = 6.7	ne 30, 201 scal Years 75%	9 2020/21 &	& 2021/2
Valuatior Date	n = J = H	June 30 June 30, 2 Fiscal Yea	, 2017 Va 017 urs 2018/1 closed gro	AL ASSUM	/20 = Fis = 6.7 = Ba	ne 30, 201 scal Years 75% used on clo	9	& 2021/2
Valuatior Date Discount	n = J F = J	June 30, 2 Fiscal Yea 3.95% Based on o crossover GASBS 7:	, 2017 Va 017 urs 2018/1 closed gro analysis f 5 methodo	AL ASSUM luation 9 & 2019 oup following pology:	/20 = Fis = 6.7 = Ba cro GA	ne 30, 201 scal Years 75% used on clo pssover an ASBS 75 r	9 2020/21 & osed group alysis follo nethodolo	& 2021/2 owing gy:
Valuatior Date Discount	n = J F = J	June 30, 2 Fiscal Yea 3.95% Based on o crossover GASBS 7: • Projecte	, 2017 Va 017 urs 2018/1 closed gro analysis f 5 methodo ed City co	AL ASSUM Iuation 9 & 2019 Oup following plogy: ntribution	/20 = Jun /20 = Fis = 6.7 = Ba cro GA s = .	ne 30, 201 scal Years 75% used on clo ossover an ASBS 75 r Projected	9 2020/21 & osed group alysis follo nethodolo City contr	& 2021/2 owing gy: ibutions
Valuatior Date Discount	n = J F = J	June 30, 2 Fiscal Yea 3.95% Based on 6 crossover GASBS 7: Projecte of \$1.5	, 2017 Va 017 urs 2018/1 closed gro analysis f 5 methodo ed City co million pe	AL ASSUM luation 9 & 2019 oup following pology: ntribution er year	/20 = Fis = 6.7 = 8a cro GZ s	ne 30, 201 scal Years 75% used on clo pssover an ASBS 75 r Projected of \$1.5 mi	9 2020/21 & osed group alysis follo nethodolo City contr illion per y	& 2021/2 owing gy: ibutions rear
Valuatior Date Discount	n = J F = J	June 30, 2 Fiscal Yea 3.95% Based on o crossover GASBS 7: • Projecte of \$1.5 f • 6.75% r	, 2017 Va 017 urs 2018/1 closed gro analysis f 5 methodo ed City co million pe ate for ful	AL ASSUM Iuation 9 & 2019 oup following pology: ntribution er year II ADC pr	/20 ■ Jun /20 ■ Fis ■ 6.7 ■ Ba cro GA s • 1 • 1	ne 30, 201 scal Years 75% used on clo pssover an ASBS 75 r Projected of \$1.5 mi 6.75% rate	9 2020/21 & osed group alysis follo nethodolo City contr illion per y e for full A	& 2021/2 owing gy: ibutions rear ADC pre-
Valuatior Date Discount	n = J F = J	June 30, 2 Fiscal Yea 3.95% Based on 6 crossover GASBS 7: • Projecte of \$1.5 f • 6.75% r funding bond ind	, 2017 Va 017 urs 2018/1 closed gro analysis f 5 methodo ed City co million pe ate for ful and S&P dex rate (2	AL ASSUM Iuation 9 & 2019 oup ollowing ology: ntribution er year II ADC pro 20-year 3.13% as o	 Jun Jun 720 ■ Fis 6.7 ■ Baa crooped of the second second	ne 30, 201 scal Years 75% used on clo pssover an ASBS 75 r Projected of \$1.5 mi 6.75% rate funding ar bond inde	9 2020/21 & osed group alysis follo nethodolo City contr illion per y e for full A nd S&P 20 x rate (2.7)	& 2021/2 owing gy: ibutions year ADC pre- year 9% as of
Valuatior Date Discount	n = J F = J	June 30, 2 Fiscal Yea 3.95% Based on 6 crossover GASBS 7: Projecte of \$1.5 6.75% r funding bond inc 6/30/17	, 2017 Va 017 urs 2018/1 closed gro analysis f 5 methodo ed City co million pe ate for ful and S&P dex rate (1) for pay-	AL ASSUM Iuation 9 & 2019 oup ollowing ology: ntribution er year II ADC pro 20-year 3.13% as o	Image: 200 minipage Image: 200 minipage /20 Image: 200 minipage Image: 200 minipage Image: 200 minipage Image: 200 minipage<	ne 30, 201 scal Years 75% used on clo ossover an ASBS 75 r Projected of \$1.5 mi 6.75% rate funding ar bond inde 6/30/19) f	9 2020/21 & osed group alysis follo nethodolo City contr illion per y e for full A nd S&P 20	& 2021/2 owing gy: ibutions year ADC pre- year 9% as of
Valuatior Date Discount		June 30, 2 Fiscal Yea 3.95% Based on 6 crossover GASBS 7: • Projecte of \$1.5 f • 6.75% r funding bond ing 6/30/17 funding	, 2017 Va 017 urs 2018/1 closed gro analysis f 5 methodo ed City co million pe ate for ful and S&P dex rate (1) for pay-	AL ASSUM luation 9 & 2019 oup ollowing ology: ntribution er year II ADC pri 20-year 3.13% as o go pre-	 Jun Jun 720 Fis 6.7 Baa croop GZ s e- of 	ne 30, 201 scal Years 75% used on clo pssover an ASBS 75 r Projected of \$1.5 mi 6.75% rate funding an bond index 6/30/19) f funding	9 2020/21 & osed group alysis follo nethodolo City contr illion per y e for full A nd S&P 20 x rate (2.7% or pay-go	& 2021/2 owing gy: ibutions rear ADC pre- -year 9% as of pre-
Valuatior Date Discount		June 30, 2 Fiscal Yea 3.95% Based on 6 crossover GASBS 7: Projecte of \$1.5 6.75% r funding bond ind 6/30/17/ funding CERBT as	, 2017 Va 017 urs 2018/1 closed gro analysis f 5 methodo cd City co million pe ate for ful and S&P dex rate (1) for pay-s	AL ASSUM luation 9 & 2019 oup ollowing ology: ntribution er year II ADC pri 20-year 3.13% as o go pre-	 Jun Jun Fis 6.7 Baa crooped GA s e- of CH 	ne 30, 201 scal Years 75% used on clo ossover an ASBS 75 r Projected of \$1.5 mi 6.75% rate funding ar bond inde 6/30/19) f funding ERBT asse	9 2020/21 & osed group alysis follo nethodolo City contr illion per y e for full A nd S&P 20 x rate (2.7)	& 2021/2 owing gy: ibutions cear ADC pre- -year 9% as of pre- n

	June 30, 2017 Valuation	June 30, 2019 Valuation
■ General Inflation	■ 2.75%	■ Same
 Aggregate Payroll Increases 	3.00%	■ Same
 Mortality, Termination, Disability 	 CalPERS – 1997-2011 Experience Study SCERS – 6/30/17 Valuation Assumptions (limited applicability) Mortality projected fully generational with Scale MP-16 	 CalPERS – 1997-2015 Experience Study SCERS – 6/30/19 Valuation Assumptions (limited applicability) Mortality projected fully generational with Scale MP-19

(BA) July 30, 2020

E-21

ACTUARIAL ASSUMPTIONS

	June 30, 2	017 Valuati	ion	June 30, 2	019 Valuati	on
Service	CalPERS 19	97-2011 Ex	perience	■ CalPERS 19	97-2015 Exj	perience
Retirement	Study			Study		
			Exp. Ret.			Exp. Ret.
		Level	Age		Level	Age
	Fire	3%@55	56	Fire	3%@55	57
	Police	3%@50	53	Police	3%@50	54
	Misc	2%@55	59	Misc	2%@55	59
	Fire PEPRA	2.7%@57	58	Fire PEPRA	2.7%@57	58
	Police PEPRA	2.7%@57	56	Police PEPRA	2.7%@57	56
	Misc PEPRA	2%@62	61	Misc PEPRA	2%@62	61
	SCERS – 6/2 Assumptions		tion	 SCERS – 6/2 Assumptions applicability 	s (limited	tion
CalPERS Service	City service between age date	L		■ Same		





SACRAMENTO

	June 30, 2017 Valuation			June 30, 2019 Valuation			
Medical		Increase fror	n Prior Year		Increase from	n Prior Year	
Trend	Year	Non-Medicare		Year	Non-Medicare	<u>Medicare</u>	
	2017	Actual 2017	7 Premiums	2017	n/	a	
(Increase in	2018	Actual 2018	8 Premiums	2018	n/		
health care	2019	7.50%	6.50%	2019	Actual 2019	Premiums	
costs for all	2020	7.50%	6.50%	2020	Actual 2020) Premiums	
	2021	7.25%	6.30%	2021	7.25%	6.30%	
reasons	2022	7.00%	6.10%	2022	7.00%	6.10%	
except aging)	2023	6.75%	5.90%	2023	6.75%	5.90%	
	2024	6.50%	5.70%	2024	6.50%	5.70%	
	2025	6.25%	5.50%	2025	6.25%	5.50%	
	2026	6.00%	5.30%	2026	6.00%	5.30%	
	2020	5.80%	5.15%	2020	5.80%	5.15%	
	2028	5.60%	5.00%	2027	5.60%	5.00%	
	2028	5.40%	4.85%	2028	5.40%	4.85%	
	2029	5.20%	4.83%	2029	5.20%	4.83%	
				2030			
	2031-35	5.05%	4.60%		5.05%	4.60%	
	2036-45	4.90%	4.50%	2036-45	4.90%	4.50%	
	2046-55	4.75%	4.45%	2046-55	4.75%	4.45%	
	2056-65	4.60%	4.40%	2056-65	4.60%	4.40%	
	2066-75 2076+	4.30% 4.00%	4.20% 4.00%	2066-75 2076+	4.30% 4.00%	4.20% 4.00%	
7					SAC		
July 30, 2020			E-23		SAC	CRAMENTO	
July 30, 2020		ACTUAR	E-23	ΓIONS	SAC	CRAMENTO	
July 30, 2020		ACTUAR		ΓIONS	SAC		
July 30, 2020		ACTUAR e 30, 2017 Va	IAL ASSUMP		SAC e 30, 2019 Va		
Dental &		e 30, 2017 Va	IAL ASSUMP				
Dental & Vision Trend Cap Increase	June ■ 2.75%	e 30, 2017 Va	IAL ASSUMP	June Same		luation	
Dental & Vision Trend Cap Increase	June 2.75% Fire hi • Low med tren • Low	e 30, 2017 V a ired <1/14/15 vest cost \$25 lical premium d vest cost PPO	IAL ASSUMP Iluation : co-pay n – medical) dental	June Same Fire hi • Lov tren • Lov	e 30, 2019 Va ired <1/14/15 vest cost \$25 d lical premium d vest cost PPO	iluation : co-pay n – medical dental	
Dental &	June June 2.75% Fire hi • Low med tren • Low prer All Mi	e 30, 2017 V a ired <1/14/15 vest cost \$25 lical premium d	IAL ASSUMP iluation : co-pay n – medical dental l trend e, and Fire	June Same Fire hi Lov med tren Lov prei	e 30, 2019 Va ired <1/14/15: vest cost \$25 d lical premium d	lluation : co-pay n – medical dental l trend	

	June 30, 2017 Valuation					June 30, 2019 Valuat	ion
articipation	■ Based or	n retirem	ents du	ring		Same	
Retirement	fiscal years 2015 to 2017, varies						
	by % of cash benefit						
	retiremen	-					
		% of Be	nefit Far	ned			
	Plan	0% 50%		100%			
		10% 23%		35%			
		10% 40%		30%			
	M & D	0% 10%		20%			
	M & V	0% 3%		4%			
	M Only	10% 12%	6 9.5%	7%			
	D Only	10% 3%	1.5%	0.5%			
	V Only	0% 0%	1%	0.5%			
	M = Medica	al, D = Den	tal, $V = \frac{1}{2}$	Vision			
re 1/1/91	■ SCERS:					Same	
nactive	• Sect 39	9 – Age	62				
Vested	• Sect 17	•					
Ret. Age		5 1150	05				
					1	City of	
July 30, 2020			E-2:	5		SACRAM	EN
1 buly 50, 2020			1 2.	, ,			

	June 30, 2017 Valuation				June 30, 2	2019 \	Valuati	on
Estimated			FY 2017	/18			FY 2020	/21
Monthly	Medical Plan	Age	М	F	Medical Plan	Age	М	F
Age-Based	Kaiser HMO	50	\$676	\$738	Kaiser HMO	50	\$781	\$852
Claims Cost		55	876	883		55	1,012	1,019
per Retiree		60	1,120	1,053		60	1,294	1,215
per Retrice		65	1,390	1,249		65	1,604	1,442
	Sutter Health	50	695	758	Sutter Health	50	805	879
		55	901	907		55	1,044	1,051
		60	1,152	1,082		60	1,334	1,254
		65	1,428	1,284		65	1,655	1,487
	Western Health	50	652	711	Western Health	50	700	764
		55	844	850		55	907	914
		60	1,079	1,014		60	1,160	1,090
		65	1,339	1,203		65	1,439	1,293





	June 30, 2017 Valuation	June 30, 2019 Valuation
M. 1' 1 D1		
Medical Plan at Retirement	Currently covered – Same as active elections:	■ Same
at Netifelilefil	 Pre-Medicare – same as 	
	• Fre-Medicare – same as current active elections with	
	Account Based Plans => \$25	
	Co-Pay Plans	
	• Post-Medicare:	
	➤ Kaiser => Kaiser SA	
	> Sutter Health and Western	
	Health => UHC PPO	
	■ Currently waived – Kaiser	
	HMO Premium Plan	
Waived	• Retirees $< 65 - 30\%$ re-elect at	■ Same
Retiree Re-	age 65	
Election	• Retirees $\geq 65 - 0\%$ re-elect	
3A July 30, 2020	E-27	SACRAMENTO
3 July 30, 2020	E-27 ACTUARIAL ASSUMPT	
3 July 30, 2020		
3 July 30, 2020		
	ACTUARIAL ASSUMPT	ΓΙΟΝS
	ACTUARIAL ASSUMPT June 30, 2017 Valuation	TIONS June 30, 2019 Valuation
Medicare	ACTUARIAL ASSUMPT June 30, 2017 Valuation Hired before 4/1/86:	TIONS June 30, 2019 Valuation
Medicare	ACTUARIAL ASSUMPT June 30, 2017 Valuation Hired before 4/1/86: • Misc – 90%	TIONS June 30, 2019 Valuation
Medicare	ACTUARIAL ASSUMPT June 30, 2017 Valuation Hired before 4/1/86: Misc – 90% Safety – 80%	TIONS June 30, 2019 Valuation
Medicare	ACTUARIAL ASSUMPT June 30, 2017 Valuation Hired before 4/1/86: Misc – 90% Safety – 80% Hired on or after 4/1/86: 100%	TIONS June 30, 2019 Valuation
Medicare	ACTUARIAL ASSUMPT June 30, 2017 Valuation Hired before 4/1/86: Misc – 90% Safety – 80% Hired on or after 4/1/86: 100% Retirees under age 65: Misc – 95%	TIONS June 30, 2019 Valuation
Medicare	ACTUARIAL ASSUMPT June 30, 2017 Valuation Hired before 4/1/86: Misc – 90% Safety – 80% Hired on or after 4/1/86: 100% Retirees under age 65:	TIONS June 30, 2019 Valuation
Medicare Eligible Rate	ACTUARIAL ASSUMPT June 30, 2017 Valuation Hired before 4/1/86: • Misc – 90% • Safety – 80% Hired on or after 4/1/86: 100% Retirees under age 65: • Misc – 95% • Safety – 90% Actives:	TIONS June 30, 2019 Valuation ■ Same
Medicare Eligible Rate Marital	ACTUARIAL ASSUMPT June 30, 2017 Valuation Hired before 4/1/86: Misc – 90% Safety – 80% Hired on or after 4/1/86: 100% Retirees under age 65: Misc – 95% Safety – 90%	TIONS June 30, 2019 Valuation ■ Same
Medicare Eligible Rate Marital Status at	ACTUARIAL ASSUMPT June 30, 2017 Valuation Hired before 4/1/86: Misc – 90% Safety – 80% Hired on or after 4/1/86: 100% Retirees under age 65: Misc – 95% Safety – 90% Actives: Currently covered – current marital status	TIONS June 30, 2019 Valuation ■ Same
Medicare Eligible Rate Marital Status at	ACTUARIAL ASSUMPT June 30, 2017 Valuation Hired before 4/1/86: Misc – 90% Safety – 80% Hired on or after 4/1/86: 100% Retirees under age 65: Misc – 95% Safety – 90% Actives: Currently covered – current	TIONS June 30, 2019 Valuation ■ Same

	June 30, 2017 Valuation	June 30, 2019 Valuation
Spouse Age	 Actives – Males 3 years older than females Retirees – Males 3 years older than females if spouse birth date not available 	Same
Surviving Spouse Participation	■ 100%	■ Same
Dependents at Retirement	 Pre-65: Actives Misc - 10% Safety - 20% Retirees - same as current coverage Post-65 - 0% 	Same
July 30, 2020	E-29	SACRAMENTO
3 July 30, 2020	E-29 DEFINITIONS	SACRAMENTO
July 30, 2020	 DEFINITIONS Project future employer-provided ben employees and current retirees Discount projected cash flow to valua return on assets used to pay benefits) determine present value of projected and Allocate PVB to past, current, and fut method Actuarial cost method used for this value 	efit cash flows for current active tion date using discount rate (assumed and other actuarial assumptions to future benefits (PVB) ture periods using the actuarial cost aluation is the Entry Age Normal Cost st as a level percentage of payroll (same urrent fiscal year amount allocated to prior service with



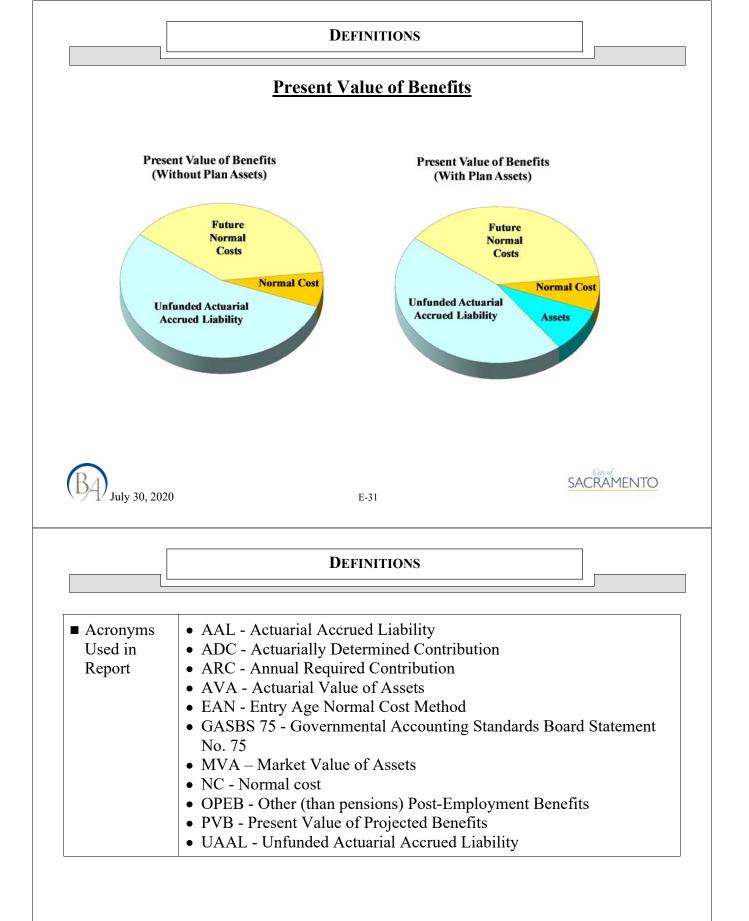


	Exhibit J
	SACRAMENTO
	City of Sacramento
Bartel	Retiree Healthcare Plan
SSOCIATES, LLC	June 30, 2020 GASBS 75
	Accounting Information
	As of Measurement Date June 30, 2019
	Based on the June 30, 2019 Actuarial Valuation
	Mary Elizabeth Redding, Vice President
	Catherine A. Wandro, Assistant Vice President
	Daniel Park, Actuarial Analyst Bartel Associates, LLC
	Revised September 22, 2020

Contents	
Topic	Page
Applicable Dates	1
Note Disclosures	2
Required Supplementary Information	14
Actuarial Certification	19
Supporting Calculations	20
Journal Entries	31
Crossover Test	37

Applicable Dates

Applicable Dates and Periods

	Fiscal Year Ended
	June 30, 2020
 Measurement date 	June 30, 2019
 Measurement period 	July 1, 2018 to
	June 30, 2019
 Actuarial valuation date 	June 30, 2019

September 22, 2020

B

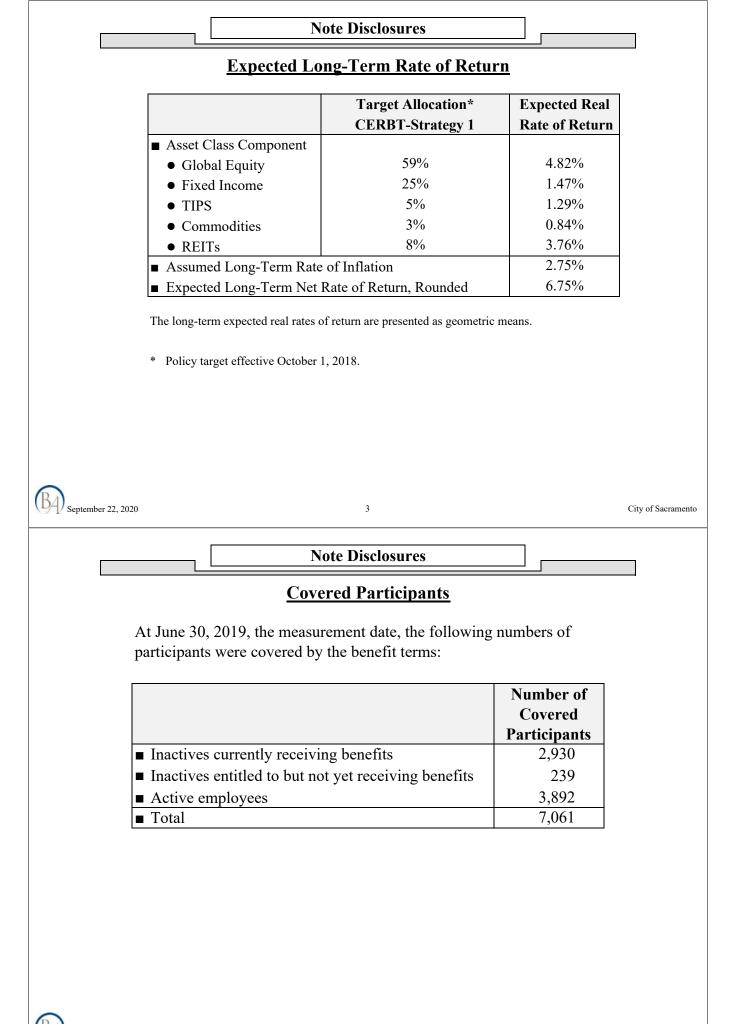
City of Sacramento

Note Disclosures

1

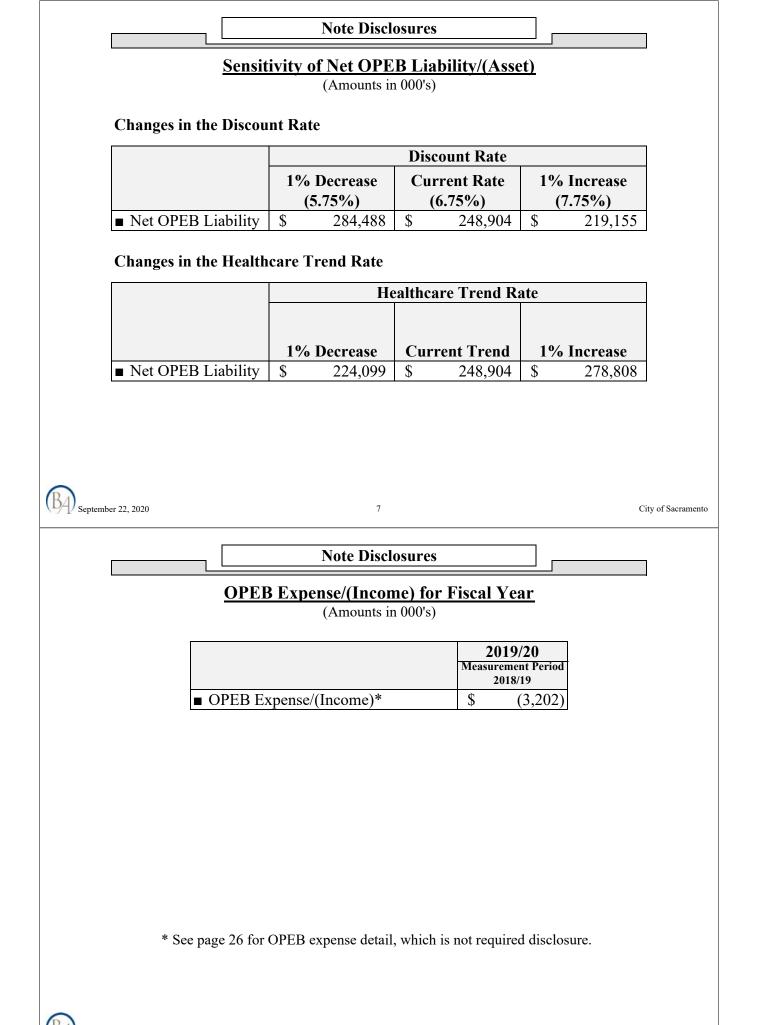
Plan Information

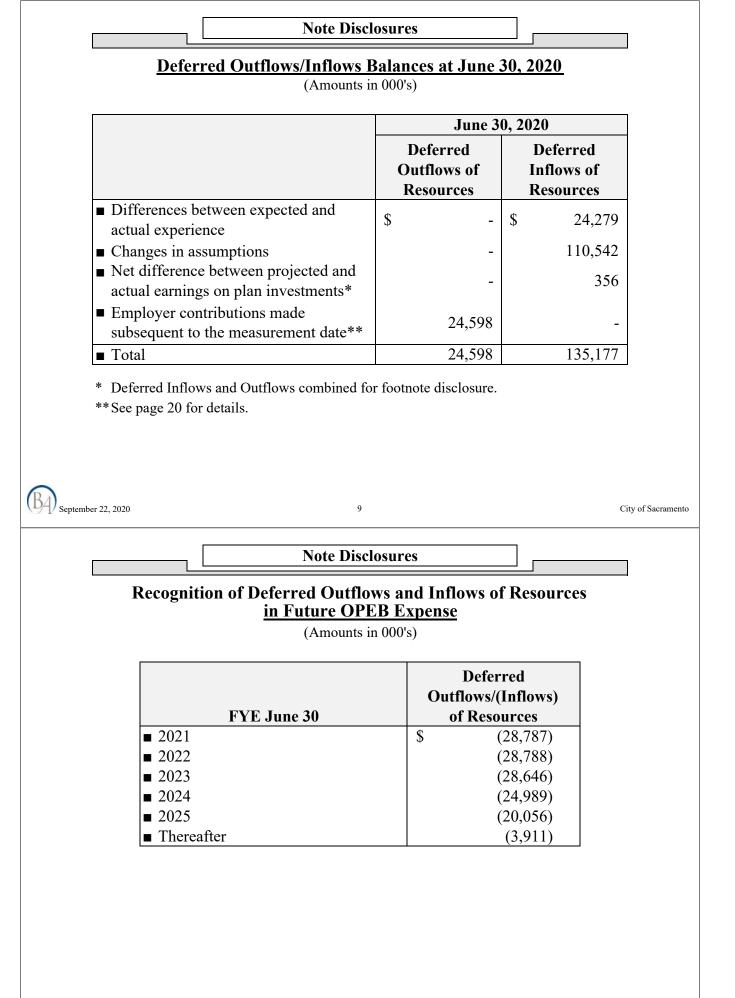
	Fiscal Year Ended June 30, 2020
Plan type	Agent Multiple Employer
■ OPEB trust	Yes
 Special funding situation 	No
 Nonemployer contributing entities 	No



	ote Disclosures				
Net OPI	EB Liability/(As	set)			
	mounts in 000's)				
	F*	-1 V			
-		al Year Ended			
6/30/196/30/20Measurement DateMeasurement Date					
	6/30/18		6/30/19		
■ Total OPEB Liability (TOL)	\$ 399,	873 \$	292,174		
Fiduciary Net Position (FNP)	37,	027	43,270		
Net OPEB Liability (NOL)	362,	846	248,904		
■ Funded status (FNP/TOL)		9.3%	14.8%		
	5 Dife Disclosures		(
No		ty/(Asset)	(
No	ote Disclosures et OPEB Liabili	ty/(Asset) Fiduciary	Net OPEB		
<u>Changes in No</u> (A	et OPEB Liabili mounts in 000's) Total OPEB Liability	Fiduciary Net Position	Net OPEB Liability		
Changes in No. (A Balance at 6/30/19	et OPEB Liabili mounts in 000's) Total OPEB	Fiduciary	Net OPEB		
Changes in No. (A (A (A) (b) (b) (b) (c) (c)	et OPEB Liabili mounts in 000's) Total OPEB Liability	Fiduciary Net Position	Net OPEB Liability		
Changes in No. (A Balance at 6/30/19 (6/30/18 measurement date)	et OPEB Liabili mounts in 000's) Total OPEB Liability \$ 399,873	Fiduciary Net Position	Net OPEB Liability \$ 362,846		
No Changes in No (A Balance at 6/30/19 (6/30/18 measurement date) Changes for the year	et OPEB Liabili mounts in 000's) Total OPEB Liability \$ 399,873 9,931	Fiduciary Net Position	Net OPEB Liability \$ 362,846 9,931		
No Changes in No (A Balance at 6/30/19 (6/30/18 measurement date) Changes for the year • Service Cost	et OPEB Liabili mounts in 000's) Total OPEB Liability \$ 399,873 9,931 18,106	Fiduciary Net Position	Net OPEB Liability \$ 362,846 9,931 18,106		
No Changes in No (A Balance at 6/30/19 (6/30/18 measurement date) Changes for the year Service Cost Interest	et OPEB Liabili mounts in 000's) Total OPEB Liability \$ 399,873 9,931 18,106 383	Fiduciary Net Position	Net OPEB Liability \$ 362,846 9,931 18,106 383		
No Changes in No (A Balance at 6/30/19 (6/30/18 measurement date) Changes for the year Service Cost Interest Changes of benefit terms	et OPEB Liabili mounts in 000's) Total OPEB Liability \$ 399,873 9,931 18,106 383 (28,948)	Fiduciary Net Position	Net OPEB Liability \$ 362,846 9,931 18,106 383 (28,948)		
No Changes in No (A Balance at 6/30/19 (6/30/18 measurement date) Changes for the year Changes for the year Service Cost Interest Changes of benefit terms Actual vs. expected experience Assumption changes	et OPEB Liabili mounts in 000's) Total OPEB Liability \$ 399,873 9,931 18,106 383	Fiduciary Net Position \$ 37,027	Net OPEB Liability \$ 362,846 9,931 18,106 383 (28,948) (92,281)		
No Changes in No (A Balance at 6/30/19 (6/30/18 measurement date) Changes for the year Changes for the year Service Cost Interest Changes of benefit terms Actual vs. expected experience	et OPEB Liabili mounts in 000's) Total OPEB Liability \$ 399,873 9,931 18,106 383 (28,948)	Fiduciary Net Position	Net OPEB Liability \$ 362,846 9,931 18,106 383 (28,948)		
Changes in No. Changes in No. (A Balance at 6/30/19 (6/30/18 measurement date) Changes for the year Changes for the year Service Cost Interest Changes of benefit terms Actual vs. expected experience Assumption changes Contributions - employer*	et OPEB Liabili mounts in 000's) Total OPEB Liability \$ 399,873 9,931 18,106 383 (28,948)	Fiduciary Net Position \$ 37,027 - - - - - 18,406	Net OPEB Liability \$ 362,846 9,931 18,106 383 (28,948) (92,281) (18,406) (303)		
No Changes in No (A Balance at 6/30/19 (6/30/18 measurement date) Changes for the year Service Cost Interest Changes of benefit terms Actual vs. expected experience Assumption changes Contributions - employee*	Disclosures et OPEB Liabili amounts in 000's) Total OPEB Liability \$ 399,873 9,931 18,106 383 (28,948) (92,281) - - - - - - - - - - - - - -	Fiduciary Net Position \$ 37,027 - - - - 18,406 303 2,432	Net OPEB Liability \$ 362,846 9,931 18,106 383 (28,948) (92,281) (18,406)		
No Changes in No (A Balance at 6/30/19 (6/30/18 measurement date) Changes for the year Service Cost Interest Changes of benefit terms Actual vs. expected experience Assumption changes Contributions - employee Net investment income	et OPEB Liabili mounts in 000's) Total OPEB Liability \$ 399,873 9,931 18,106 383 (28,948)	Fiduciary Net Position \$ 37,027 - - - - 18,406 303 2,432	Net OPEB Liability \$ 362,846 9,931 18,106 383 (28,948) (92,281) (18,406) (303)		
Changes in No (A Balance at 6/30/19 (6/30/18 measurement date) Changes for the year Service Cost Interest Changes of benefit terms Actual vs. expected experience Assumption changes Contributions - employer* Contributions - employee Net investment income Benefit payments*	Disclosures et OPEB Liabili amounts in 000's) Total OPEB Liability \$ 399,873 9,931 18,106 383 (28,948) (92,281) - - - - - - - - - - - - - -	Fiduciary Net Position \$ 37,027 \$	Net OPEB Liability \$ 362,846 9,931 18,106 383 (28,948) (92,281) (18,406) (303) (2,432)		

* See the measurement period column on page 20 for details





<u>Significant Actuarial A</u>	Assumptions Used for Total OPEB Liability
Actuarial Assumption	June 30, 2019 Measurement Date
 Actuarial Valuation Date 	■ June 30, 2019
 Municipal Bond Rate 	■ 2.79% as of June 30, 2019
	■ 2.98% as of June 30, 2018
	Standard & Poors 20 Year High Grade Rate
 Discount Rate and 	■ 6.75% at June 30, 2019
Long-Term Expected	■ 4.50% at June 30, 2018
Rate of Return on Assets	 Expected City contributions projected to keep
	sufficient plan assets to pay all benefits from
	trust
General Inflation	■ 2.75% annually
Crossover Test	Assumed \$1.5 million annual contribution until
Assumptions	assets equal Present Value of Benefits
	• Administrative expenses = 0.05% of assets
	■ No crossover
 Mortality, Retirement, 	■ CalPERS 1997-2015 Experience Study
Disability, Termination	■ SCERS - 6/30/19 Valuation Assumptions
	(limited applicability)
	Note Disclosures
Significant Actuarial	Note Disclosures
Significant Actuarial A	
Actuarial Assumption	Assumptions Used for Total OPEB Liability
Actuarial Assumption ■ Mortality Improvement	Assumptions Used for Total OPEB Liability June 30, 2019 Measurement Date Mortality projected fully generational with Scale
	Assumptions Used for Total OPEB Liability June 30, 2019 Measurement Date Mortality projected fully generational with Scale MP-2019 Aggregate - 3% annually
 Actuarial Assumption Mortality Improvement Salary Increases 	Assumptions Used for Total OPEB Liability June 30, 2019 Measurement Date Mortality projected fully generational with Scale MP-2019
Actuarial Assumption ■ Mortality Improvement	 Assumptions Used for Total OPEB Liability June 30, 2019 Measurement Date Mortality projected fully generational with Scale MP-2019 Aggregate - 3% annually Merit - CalPERS 1997-2015 Experience Study Non-Medicare - 7.5% for 2020, decreasing to an
 Actuarial Assumption Mortality Improvement Salary Increases 	 Assumptions Used for Total OPEB Liability June 30, 2019 Measurement Date Mortality projected fully generational with Scale MP-2019 Aggregate - 3% annually Merit - CalPERS 1997-2015 Experience Study Non-Medicare - 7.5% for 2020, decreasing to an ultimate rate of 4.0% in 2076 Medicare - 6.5% for 2020, decreasing to an

Changes Since June 30, 2018 Measurement Date								
	June 30, 2019 Measurement Date							
 Changes of assumptions Changes of benefit terms 	 Discount rate was updated based on results of crossover test Demographic assumptions were updated to CalPERS 1997-2015 Experience Study Mortality improvement scale was updated to Scale MP-2019 Fire employees hired before 1/1/20 who retire on 							
	or after that date do not have 5.28% multiplier in benefit formula							
 Events subsequent to June 30, 2019 measurement date and before June 30, 2020 	 PPACA high cost plan excise tax repealed Decreases TOL by approximately \$3.8 million 							

September 22, 2020

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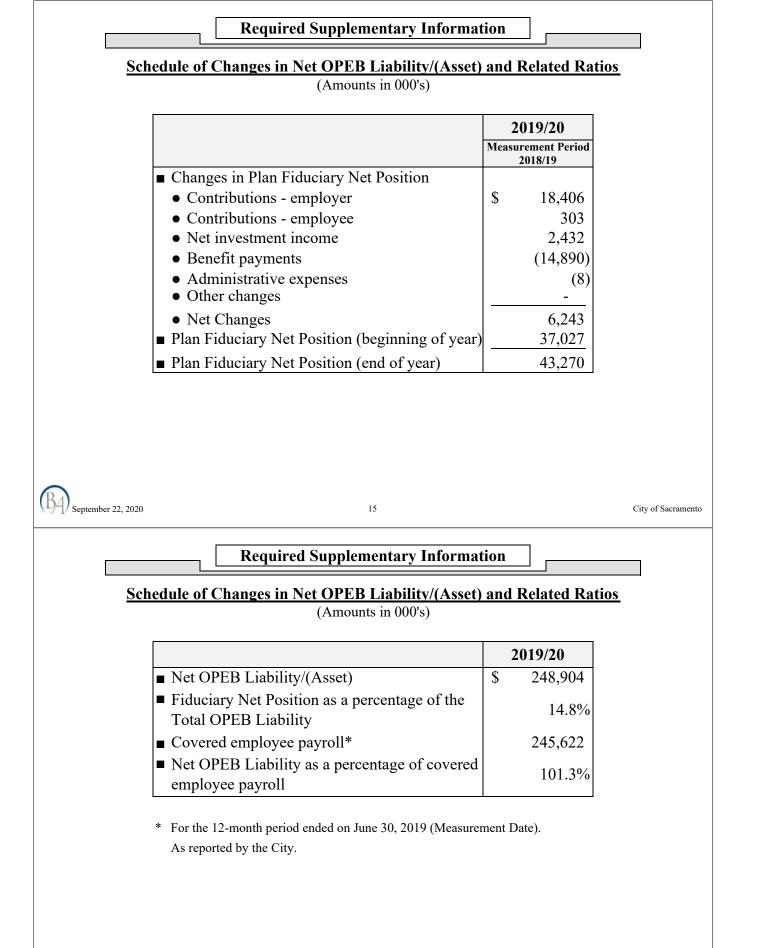
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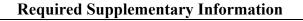
City of Sacramento

Required Supplementary Information

Schedule of Changes in Net OPEB Liability/(Asset) and Related Ratios (Amounts in 000's)

	2	019/20
		rement Period 2018/19
Changes in Total OPEB Liability		
Service Cost	\$	9,931
• Interest		18,106
• Changes of benefit terms		383
• Actual vs. expected experience		(28,948)
• Assumption changes		(92,281)
• Benefit payments		(14,890)
■ Net Changes		(107,699)
 Total OPEB Liability (beginning of year) 		399,873
■ Total OPEB Liability (end of year)		292,174





Schedule of Employer Contributions

(Amounts in 000's)

	iscal Year 2019/20
■ Actuarially Determined Contribution (ADC)*	\$ 36,155
 Contributions in relation to the actuarially determined contribution** 	 24,598
 Contribution deficiency/(excess) 	11,557
Covered employee payroll***	261,187
 Contributions as a percentage of covered employee payroll 	9.4%

* Employer ADC equals total ADC of \$36,310 less \$155 employee contributions.

** See page 20 for details.

*** For the 12-month period ended on June 30, 2020 (fiscal year end). As reported by the City.



17

City of Sacramento

Required Supplementary Information

Notes to Schedule of Employer Contribution Methods and Assumptions for 2019/20 Actuarially Determined Contribution

 Valuation Date 	■ June 30, 2017						
 Actuarial Cost Method 	■ Entry Age Normal, Level % of pay						
 Amortization Method 	■ Level % of pay						
 Amortization Period 	■ 19-year fixed period for 2019/20						
Asset Valuation Method	 Investment gains and losses spread over 5-year rolling period 						
Discount Rate	■ 3.95%						
 General Inflation 	■ 2.75%						
 Medical Trend 	 Non-Medicare - 7.5% for 2019, decreasing to an ultimate rate of 4.0% in 2076 Medicare - 6.5% for 2019, decreasing to an ultimate rate of 4.0% in 2076 						
 Mortality 	■ CalPERS 1997-2011 experience study						
 Mortality Improvement 	 Mortality projected fully generational with Scale MP-2016 						

Actuarial Certification

This report presents City of Sacramento Retiree Healthcare Plan 2019/20 disclosure under Governmental Accounting Standards Board Statement No. 75 (GASBS 75). The Journal Entries in this report are provided for the City's convenience and are not an actuarial communication and this actuarial certification does not apply to them.

The report provides information intended for reporting under GASBS 75, but may not be appropriate for other purposes. Information provided in this report may be useful to the City for the Plan's financial management. Future valuations may differ significantly if the Plan's experience differs from our assumptions or if there are changes in Plan design, actuarial methods, or actuarial assumptions. The project scope did not include an analysis of this potential variation.

The June 30, 2019 valuation is based on Plan provisions and participant data provided by the City, and asset information, all of which we relied on and did not audit. We reviewed the census data for reasonableness. Additional information on participants included in the valuation and actuarial assumptions can be found in the June 30, 2019 funding actuarial valuation report. As the actuary, Bartel Associates has recommended the assumptions used in this report, and we believe they are reasonable.

To the best of our knowledge, this report is complete and accurate and has been conducted using generally accepted actuarial principles and practices. Additionally, in our opinion, actuarial methods and assumptions comply with GASBS 75. As members of the American Academy of Actuaries meeting the Academy Qualification Standards, we certify the actuarial results and opinions herein.

Respectfully submitted,

Many Upbete Redding

Mary Elizabeth Redding, FSA, EA, FCA, MAAA Vice President Bartel Associates, LLC September 22, 2020

Catherine a. Wandro

Catherine A. Wandro, ASA, FCA, MAAA Assistant Vice President Bartel Associates, LLC September 22, 2020

September 22, 2020

19

City of Sacramento

Supporting Calculations

Employer Contributions

(Amounts in 000's)

	Measurement Period	Measurement Date to FYE	Prior Measurement Date to Prior FYE Same as
	7/1/18 to 6/30/19	7/1/19 to 6/30/20	Measurement Period
 Cash benefit payments 	\$ 10,407	\$ 10,832	\$ 10,407
 Implied subsidy benefit payments 	4,483	4,932	4,483
 Total benefit payments 	14,890	15,764	14,890
 Trust reimbursements 			
 Benefit payments paid outside of trust 	14,890	15,764	14,890
Administrative expenses paid outside of trust	-	-	-
 Trust contributions 	3,516	8,834	3,516
 Total employer contributions 	18,406	24,598	18,406

Measurement period (7/1/18 to 6/30/19): \$18,406 Fiscal year (7/1/19 to 6/30/20): \$24,598



Average of the Expected Remaining Service Lives*

As of July 1, 2018 (beginning of the measurement period):

	2019/20
	Measurement Period 2018/19
 Total expected remaining service lives 	40,639 years
 Covered participants 	6,607
 Average of the expected remaining service lives 	6.2 years
(not less than 1 year)	

* Estimated from the June 30, 2019 actuarial valuation.

September 22, 2020

21

City of Sacramento

Supporting Calculations

Recognition of Deferred Outflows/Inflows at June 30, 2020

Differences between Expected and Actual Experience

(Amounts in 000's)

Fiscal	Initial	Initial Recog									Balances), 2020
Year	Amt	Period	19/20	20/21	21/22	22/23	23/24	24/25	25/26+	Outflows	(Inflows)
17/18	-	-	-	-	-	-	-	-	-	-	-
18/19	-	-	-	-	-	-	-	-	-	-	-
19/20	(28,948)	6.2	(4,669)	(4,669)	(4,669)	(4,669)	(4,669)	(4,669)	(934)	-	(24,279)
Total			(4,669)	(4,669)	(4,669)	(4,669)	(4,669)	(4,669)	(934)	-	(24,279)

Supporting Calculations

Recognition of Deferred Outflows/Inflows at June 30, 2020

Changes of Assumptions

(Amounts in 000's)

Fiscal		Initial Recog		Amount Recognized in OPEB Expense for FY						Deferred Balances June 30, 2020	
Year	Initial Amt	Period	19/20	20/21	21/22	22/23	23/24	24/25	25/26+	Outflows	(Inflows)
17/18	(24,429)	6.1	(4,005)	(4,005)	(4,005)	(4,005)	(399)	-	-	-	(12,414)
18/19	(30,845)	6.1	(5,057)	(5,057)	(5,057)	(5,057)	(5,057)	(503)	-	-	(20,731)
19/20	(92,281)	6.2	(14,884)	(14,884)	(14,884)	(14,884)	(14,884)	(14,884)	(2,977)	-	(77,397)
Total			(23,946)	(23,946)	(23,946)	(23,946)	(20,340)	(15,387)	(2,977)	-	(110,542)

BA) September 22, 2020

23

City of Sacramento

Supporting Calculations

Recognition of Deferred Outflows/Inflows at June 30, 2020

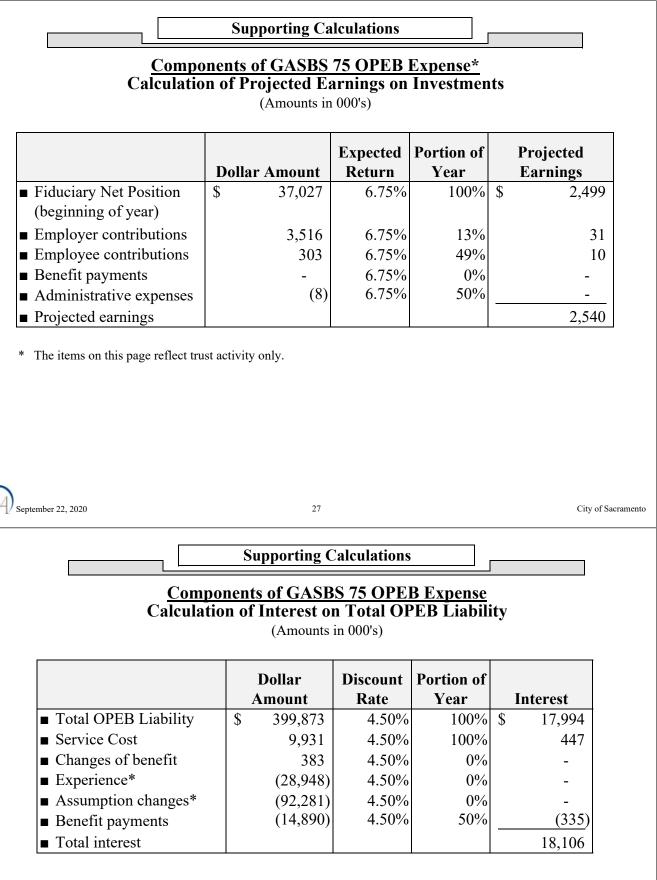
Projected Versus Actual Earnings on Investments

(Amounts in 000's)

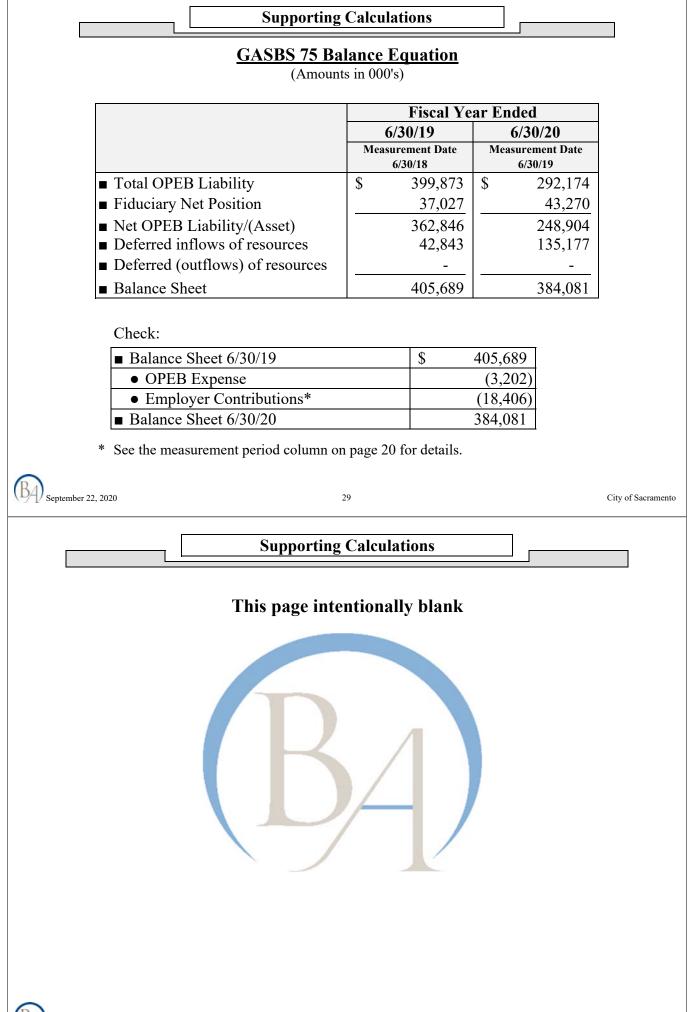
Fiscal	Initial	Initial Recog	Amount Recognized in OPEB Expense for FY							Deferred Balances June 30, 2020	
Year	Amt	Period	19/20	20/21	21/22	22/23	23/24	24/25	25/26+	Outflows	(Inflows)
17/18	(701)	5.0	(140)	(140)	(141)	-	-	-	-	-	(281)
18/19	(269)	5.0	(54)	(54)	(54)	(53)	-	-	-	-	(161)
19/20	108	5.0	22	22	22	22	20	-	-	86	-
Total			(172)	(172)	(173)	(31)	20	-	-	86	(442)
Net De	ferred Ou	tflows/(In	flows)							-	(356)

Calculation of initial amount for 2019/20 (2018/19 measurement period) Projected earnings on investments of \$2,540 (page 27), less Actual earnings on investments of \$2,432 (net investment income, page 15)

<u>Recognitio</u>	<u>n of Deferr</u>		v <mark>s/Inflows i</mark> nts in 000's)	<u>n Future (</u>)PEB Exp	<u>ense</u>
	20/21	21/22	22/23	23/24	24/25	Thereafter 25/26+
 Differences between Expected and Actual Experience 	\$ (4,669)	\$ (4,669)	\$ (4,669)	\$ (4,669)	\$ (4,669)	\$ (934)
 Changes of Assumptions 	(23,946)	(23,946)	(23,946)	(20,340)	(15,387)	(2,977)
 Projected Versus Actual Earnings on Investments 	(172)	(173)	(31)	20	-	-
			(28,646)	(24,989)	(20.05)	(2.01.1)
	(28,787)	(28,788) Supporting	25		(20,056)	(3,911) City o
		Supporting of GASBS 7	²⁵ g Calculatio 75 OPEB E	DNS		
tember 22, 2020		Supporting of GASBS 7	25 g Calculatio	DNS		
tember 22, 2020	Components	Supporting of GASBS 7	²⁵ g Calculatio 75 OPEB E	ons xpense/(Inc 2 	20 019/20 rement Period 2018/19	
tember 22, 2020 C Serv Inter Proje Emp		Supporting of GASBS 7 (Amour OPEB Liab gs on invest butions	25 <u>g</u> Calculations 75 OPEB Example the sin 000's) pility	ons xpense/(Inc 2 Measu	come) 019/20 rement Period	City
tember 22, 2020 Serve Inter Proje Emp Adm Char Reco	ice Cost est on Total ected earning loyee contri inistrative e nges of bene ognition of d	Supporting of GASBS 7 (Amour OPEB Liab gs on invest butions xpense fit terms	25 g Calculation 75 OPEB Example ints in 000's) bility ments	ons xpense/(Inc Measu \$	019/20 rement Period 2018/19 9,931 18,106 (2,540) (303) 8 383	City o
tember 22, 2020 Serve Inter Proje Emp Adm Char Recce Ex As	ice Cost est on Total ected earning loyee contri inistrative enges of bene	Supporting of GASBS 7 (Amour OPEB Liab gs on invest butions xpense fit terms	25 g Calculation 75 OPEB Example ints in 000's) bility ments	ons xpense/(Inc Measu \$	019/20 rement Period 2018/19 9,931 18,106 (2,540) (303) 8	City



* Liability determined as of the end of the measurement period, so no interest charge is applicable.

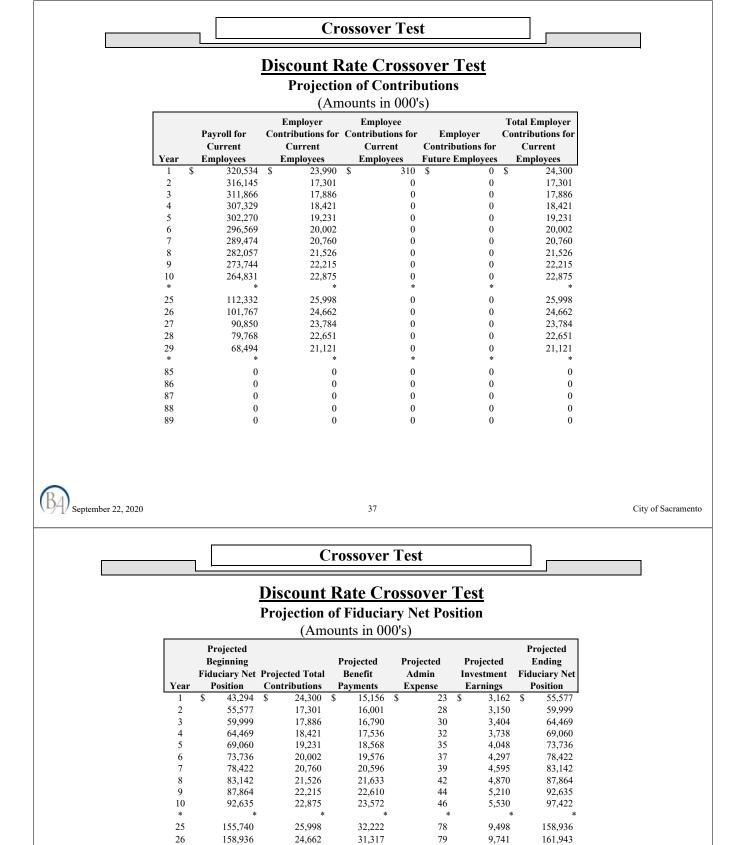


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OPEB Expension rent year imployee health of tributions as a pility. 17/1/18 to butions butions	nse when p lied subsid care costs. deferred ou Debit \$ 18,40	aid, and that no y payment, See page 20 utflows of (Credit) 06 \$ -
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butions butions	\$ 18,40	06 \$ -
butions	_	
butions	24.50	(18,406)
d subsidy	27,55	
	-	(4,932)
/19 to	-	(19,666)
	43,00	04 (43,004)
		C
tries		
es - OPEB	<u>Expense</u>	
,	ense	
Debit		(Credit)
	- \$	-
	280	(92,614)
95	-	(3,202)
	,550	
95	,816	(95,816)
	tries es - OPEB 000's) r OPEB expo Debit \$ 95	- 43,00 tries es - OPEB Expense 000's) r OPEB expense Debit \$ - \$ -

	Alances at Ju Amounts in 000		<u>0</u>	
		Debit	(Credit)
Deferral: Differences between expecte	ed and actual			
experience		\$	- \$	(24,279)
Deferral: Changes of assumptions Deferral: Net differences between proj	iected and		-	(110,542)
actual earnings on plan investments	feeted and		_	(356)
Total deferred outflow/inflow			-	(135,177)
Net OPEB Liability (NOL)			-	(248,904)
Contributions after the Measurement I	Date	24,5		-
Net Impact		359,4	483	-
Check:		384,0	081	(384,081)
Total OPEB expense/(income) for FY	E 2020			(3,202)
otember 22, 2020	33 Journal Ent	ries		City of a
	Journal Ent			City of i
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Reconciliat	Journal Entr tion of Defe Detail for pag (Amounts in 00 Opening	rred Outfle e 32 00's) Journal	Journa	l Ending
Reconciliat	Journal Entr tion of Defe Detail for pag (Amounts in 00	rred Outfl e 32 00's)		l Ending Balance -
Reconciliat Deferred Outflows Differences between actual and	Journal Entr tion of Defe Detail for pag (Amounts in 00 Opening Balance - Debit	rred Outfle e 32 D0's) Journal Entry - Debit	Journa Entry - (Credit)	l Ending Balance -) Debit
Deferred Outflows Differences between actual and expected experience	Journal Entr tion of Defe Detail for pag (Amounts in 00 Opening Balance -	rred Outfle e 32 D0's) Journal Entry -	Journa Entry -	l Ending Balance -
Deferred Outflows Differences between actual and expected experience Change in assumptions	Journal Entr tion of Defe Detail for pag (Amounts in 00 Opening Balance - Debit	rred Outfle e 32 D0's) Journal Entry - Debit	Journa Entry - (Credit)	l Ending Balance -) Debit
Deferred Outflows Differences between actual and expected experience Change in assumptions Differences between projected and	Journal Entr tion of Defe Detail for pag (Amounts in 00 Opening Balance - Debit	rred Outfle e 32 D0's) Journal Entry - Debit	Journa Entry - (Credit)	l Ending Balance -) Debit
Deferred Outflows Differences between actual and expected experience Change in assumptions Differences between projected and actual earnings on plan investments	Journal Entr tion of Defe Detail for pag (Amounts in 00 Opening Balance - Debit	rred Outfle e 32 D0's) Journal Entry - Debit	Journa Entry - (Credit)	l Ending Balance -) Debit
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Deferred Outflows Differences between actual and expected experience Change in assumptions Differences between projected and actual earnings on plan investments	Journal Entr tion of Defe Detail for pag (Amounts in 00 Opening Balance - Debit	rred Outfle e 32 D0's) Journal Entry - Debit \$ - - -	Journa Entry - (Credit)	I Ending Balance - Debit \$ - - -

	ournal Enti	ries		
Reconciliat	ion of Defe etail for page		<u>WS</u>	
	Amounts in 00			
Deferred Inflows	Opening Balance - (Credit)	Journal Entry- (Credit)	Journal Entry - Debit	Ending Balance - (Credit)
Differences between actual and	(Credit)	(Crean)	Debit	(Creait)
expected experience	\$-	\$ (24,279)	\$ -	\$ (24,279)
Change in assumptions	(42,207)	· · · · ·	-	(110,542)
 Differences between projected and 	(,_0/)	(00,000)		(110,012)
actual earnings on plan investments	(636)	-	280	(356)
Total Deferred (Inflows)	(42,843)	(92,614)	280	(135,177)
· · · ·	35 urnal Entrie	<u>s</u>		City of Sa
Jou	ırnal Entrie			City of Sa
Jou <u>Reconciliation of D</u>	ırnal Entrie Deferred Ot	utflows/(In		City of Sa
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Jou <u>Reconciliation of D</u> Summa	Urnal Entrie Deferred Ou ary of Bala nounts in 000's	utflows/(In inces ^{s)} Fiscal Yea	ar Ended	
Jou <u>Reconciliation of D</u> Summa	Urnal Entrie Deferred Ou ary of Bala nounts in 000's	utflows/(In inces s) Fiscal Yea /30/19	ar Ended 6/30/20	
Jou <u>Reconciliation of D</u> Summa	Deferred Ou ary of Bala nounts in 000's	utflows/(In inces ^{s)} Fiscal Yea	ar Ended	
Jou <u>Reconciliation of D</u> Summa	Deferred Ou ary of Bala nounts in 000's	utflows/(In Inces s) Fiscal Yea /30/19 Irement Date	ar Ended 6/30/20 Measurement 6/30/19	
Jou <u>Reconciliation of D</u> Summa (Am	Deferred Ou ary of Bala nounts in 000's	utflows/(In inces s) Fiscal Yea /30/19 irement Date 6/30/18	ar Ended 6/30/20 Measurement 6/30/19 \$ (292	Date
■ Total OPEB (Liability)	Deferred Ou ary of Bala nounts in 000's	utflows/(In inces s) Fiscal Yea /30/19 irement Date 6/30/18 (399,873)	ar Ended 6/30/20 Measurement 6/30/19 \$ (292 43) Date 2,174)
Jou <u>Institution of D</u> Summa (Am (Am) (Am) (Institution of D) (Instition of D) (Instituti	Irnal Entrie Deferred On ary of Bala nounts in 000's 6/ Measu \$	utflows/(In inces s) Fiscal Yes /30/19 irrement Date 6/30/18 (399,873) 37,027	ar Ended 6/30/20 Measurement 6/30/19 \$ (292 43 (248	Date 2,174) 3,270
Example 2 Example 2	Irnal Entrie Deferred Ou ary of Bala nounts in 000's 6/ Measu 8	utflows/(In inces s) Fiscal Yea /30/19 irement Date 6/30/18 (399,873) 37,027 (362,846)	ar Ended 6/30/20 Measurement 6/30/19 \$ (292 43 (248 (135)	Date 2,174) 3,270 3,904)

Deferred Outflows include contributions after the measurement date.



*

161,943

164,718

167,243

23,784

22,651

21,121

30,884

30,206

29,144

×

9,956

10,163

10,366

164,718

167,243

169,503

Crossover Test Discount Rate Crossover Test Present Values of Projected Benefit Payments (Amounts in 000's) PV of PV of "Funded" "Unfunded" "Funded" "Unfunded" Projected Beginning Projected Portion of Portion of Portion of Portion of PV of Benefit **Fiduciary Net** Benefit Benefit Benefit Benefit Benefit Payments @ Position Payments Payments Payments Payments Payments 6.75% Year 14,669 14,669 \$ 43,294 \$ 15,156 \$ 15,156 \$ 0 \$ \$ 0 \$ 1 55,577 16,001 14,508 14,508 2 16,001 0 0 3 59,999 16,790 16,790 0 14,260 0 14,260 17,536 17,536 4 64,469 13,952 13,952 0 0 5 69,060 18,568 18,568 13,839 13,839 0 0 6 73,736 19,576 19,576 0 13,668 0 13,668 7 20,596 20,596 78,422 0 13,471 0 13,471 8 83,142 21,633 21,633 13,254 0 13,254 0 9 87,864 22,610 22,610 0 12,977 0 12,977 10 23,572 12,674 92,635 23,572 0 12,674 0 * * * 25 155,740 32,222 32,222 0 6,503 0 6,503 158,936 31,317 31,317 5,921 26 0 5,921 0 27 161,943 30,884 30,884 0 5,470 0 5,470 28 164,718 30,206 30,206 0 5,012 0 5,012 29 167,243 29,144 29,144 0 4,530 0 4,530 * * 85 0 0 0 0 53 24 24 86 32 15 15 0 0 0 0 87 18 9 9 0 0 0 0 10 6 0 88 6 0 0 0 0 0 89 5 3 3 0 0 * Total 343,709 0 343,709 September 22, 2020 39 City of Sacramento **Crossover Test** This page intentionally blank