

CITY OF SAN RAFAEL RETIREE HEALTHCARE PLAN

BARTEL ISSOCIATES, LLC

June 30, 2019 Actuarial Valuation Plan Funding for 2020/21 and 2021/22

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Bartel Associates, LLC

June 29, 2020

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BENEFIT SUMMARY

	Elected Officials, Unrepresented Mid Management & Management	All other Bargaining Units ¹
■ Eligibility ²	 Retire directly from City: Age 50 (age 55 if hired ≥ 7/1/1) service (including reciprocity) of 30 years service (Miscellaneous Age 70 Disability retirement 	or
■ Benefit	■ Hired < 1/1/09 Full premium/cap■ Hired ≥ 1/1/09 PEMHCA Min	 ■ Hired < 1/1/10 Up to cap ■ Hired ≥ 1/1/10 PEMHCA Min³
Surviving Spouse Benefit	■ Benefit continues to surviving spou	ise

Annual active conversion of 50 hours of sick leave to HRA (excluded from valuation)



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BENEFIT SUMMARY

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	Elected Officials, Unrepresented Mid Management & Management	All other Bargaining Units ⁴
■ Medicare Part B	 ■ Hired < 4/1/07 Full reimbursement ■ Hired ≥ 4/1/07 None 	■ None
■ Other OPEB	■ No Dental, Vision, or Life Benefit	S

Annual active conversion of 50 hours of sick leave to HRA (excluded from valuation)





Age 52 and 5 or age 70 for Miscellaneous PEPRA members, age 50 and 5 or age 70 for Safety PEPRA members City match 2% Firefighters salary to HRA (excluded from valuation)

BENEFIT SUMMARY

■ Contributions	Fiscal Year	Cash <u>Pay-Go</u>	Implied Subsidy	<u>Trust</u>	<u>Total</u>
	2018/19	\$ 2,409,000	\$ 663,000	\$ 646,000	\$ 3,718,000
	2017/18	2,257,000	771,000	535,000	3,563,000
	2016/17	2,233,000	782,000	460,000	3,475,000
	2015/16	2,194,000	702,000	-	2,896,000
	2014/15	2,100,000	-	150,000	2,250,000
	2013/14	2,100,000	-	500,000	2,600,000
	2012/13	2,073,000	-	500,000	2,573,000
	2011/12	2,124,000	-	-	2,124,000
	2010/11	1,808,000	-	(1,000,000)	808,000
	2009/10	1,755,000	-	(1,000,000)	755,000



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BENEFIT SUMMARY

Bargaining Unit	Monthly Cap	Min Date ⁵
SEIU Child Care Unit	\$543	1/1/10
Unrepresented Mid-Management Employees	Retired < 12/1/01: \$442	
	Retired $\geq 12/1/01$: Full	1/1/09
	prem	1/1/02
	Hired $\geq 4/1/07$: \$600	
San Rafael Fire Chief Officer's Association	\$557	1/1/10
San Rafael Firefighters' Association, I.A.FF., Local 1775	\$557	1/1/10
San Rafael Police Association	\$386	1/1/10
San Rafael Police Mid-Management Association	\$566	1/1/10
SEIU 1021	\$752	1/1/10
Public Employees Bargaining Unit (PEU) Local 1	\$659	1/1/10
Unrepresented Management Employees and Council	Hired < 4/1/07: Full prem.	1/1/09
City Clerk and Elected Part-Time City Attorney	Hired $\geq 4/1/07$: \$600	1/1/09
Western Council of Engineers (WCE)	\$752	1/1/10

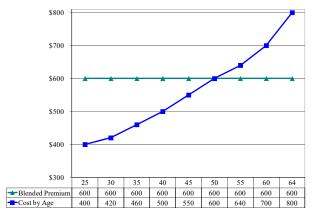
⁵ Employees hired on or after date receive only PEMHCA minimum (\$136 in 2019, \$139 in 2020).



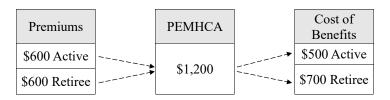


IMPLIED SUBSIDY

- For PEMHCA, employer cost for allowing retirees to participate at active rates.
 - General trend:



• Sample active age 40, retire age 60:





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IMPLIED SUBSIDY

- GASB defers to actuarial standards of practice
- Previous Actuarial Standards of Practice No. 6⁶ (ASOP 6) allowed community rated plans to value liability using premiums, resulting in no implied subsidy
- In May 2014, Actuarial Standards Board released revised ASOP 6:
 - Requires implied subsidy valued for community rated plans such as PEMHCA
 - Timing: effective with all valuations on or after March 31, 2015 with earlier implementation encouraged
 - Valuations on and after 6/30/15 include the implied subsidy

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Measuring Retiree Group Benefits Obligations and Determining Retiree Group Benefits Plan Costs or Contributions.

DATA SUMMARY

Actives

	6/30/07	6/30/097	6/30/118	6/30/139	6/30/15	6/30/17	6/30/19
■ Count							
• Cap	408	377	326	294	261	213	165
• PEMHCA Min	<u>n/a</u>	4	_35	<u>76</u>	<u>115</u>	<u>149</u>	<u>191</u>
• Total	408	381	361	370	376	366	356
■ Average							
• Age	44.7	44.3	44.6	44.0	44.4	44.2	43.1
• City Service	11.6	10.7	10.9	11.1	11.2	11.3	10.5
• Pay	\$72,800	\$77,900	\$77,000	\$77,900	\$ 80,700	\$ 88,800	\$ 94,100
■ Total Pay (000's)	29,719	29,689	27,784	28,808	30,346	32,506	33,491



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DATA SUMMARY

Retirees

	6/30/07	6/30/0910	6/30/11 ¹¹	6/30/1312	6/30/15	6/30/17	6/30/19
■ Count	247	291	308	328	323	337	359
■ Average							
• Age	66.6	65.9	66.7	67.4	68.7	70.0	70.3
• Retirement Age ¹³							
➤ Misc.	n/a	59.3	59.5	59.1	59.3	59.3	59.7
> Safety	n/a	54.1	54.8	55.2	54.9	54.8	55.2
• Monthly Benefit ¹⁴	\$ 480	\$ 537	\$ 573	\$ 554	\$ 629	\$ 640	\$ 644

¹⁴ Excludes Medicare Part B reimbursement.





Data as of April 2010.
Data as of December 2011.
Data as of October 2013.

Data as of April 2010.
Data as of December 2011.
Data as of October 2013.
Service retirements only.

DATA SUMMARY

Parking Fund/SRSD

6/30/19 Participant Statistics¹⁵

	Parking Fund	SRSD	Other	Total
■ Actives				
• Counts	19	14	323	356
Averages				
➤ Age	47.8	48.5	42.6	43.1
➤ Pay	\$ 70,400	\$ 89,800	\$95,600	94,100
• Service				
Allocated average	8.8	11.6	10.6	10.5
Average in group	8.9	11.8	10.6	10.5
• Total Pay (000's)	\$ 1,342	\$ 1,288	\$ 30,965	\$ 33,491
■ Retirees				
• Counts	6	8	345	359
 Average Age 	66.7	67.9	70.4	70.3

¹⁵ Counts assigned to groups based upon City research of personnel and financial records for each participant.



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DATA SUMMARY

Parking Fund/SRSD

6/30/17 Participant Statistics¹⁶

	Parking Fund	SRSD	Other	Total
■ Actives				
• Counts	18	15	333	366
Averages				
> Age	50.9	53.3	43.4	44.2
➤ Pay	\$65,900	\$89,700	\$90,000	\$88,800
• Service				
Allocated average	10.4	15.4	11.2	11.3
Average in group	10.3	14.9	11.2	11.3
• Total Pay (000's)	\$1,187	\$1,346	\$29,973	\$32,506
■ Retirees				
• Counts	3	5	329	337
Average Age	65.0	68.5	70.0	70.6

¹⁶ Counts assigned to groups based upon City research of personnel and financial records for each participant.





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ACTUARIAL ASSUMPTIONS HIGHLIGHTS

Discount Rate

■ CERBT Investment Options, allocations revised in 2018

	Strategy 1	Strategy 2	Strategy 3
Global Equity	59%	40%	22%
Fixed Income	25%	43%	49%
TIPS	5%	5%	16%
Commodities	3%	4%	5%
REITs	8%	8%	8%
Total	100%	100%	100%

■ City in CERBT Strategy 1



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ACTUARIAL ASSUMPTIONS HIGHLIGHTS

Discount Rate

- Future expected returns
 - Stochastic simulations of geometric average returns over 20 years
 - 5,000 trials
 - 2.75% inflation assumption
 - Projections based on 5 independent Investment Advisors 2017 10-year Capital Market Assumptions and where available, investment advisors anticipated long-term trends
 - COVID-19 impact:
 - ➤ No adjustment to (long term) discount rate
 - ➤ Assets projected for 19/20 with 0% return
 - Confidence levels:

	Strategy 1	Strategy 2	Strategy 3
50% Confidence Level	6.75%	6.25%	5.50%
55% Confidence Level	6.50%	6.00%	5.50%
60% Confidence Level	6.00%	5.75%	5.25%





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ACTUARIAL ASSUMPTIONS HIGHLIGHTS

Assumption	June 30, 2017 Valuation	June 30, 2019 Valuation
■ Valuation	■ June 30, 2017	■ June 30, 2019
Date	2 018/19 & 2019/20	2 020/21 & 2021/22
■ Funding Policy	Pay-go with no CERBT account reimbursementTotal payment not < ADC	■ Same
■ General Inflation	2.75%	■ Same
■ Discount Rate	■ 6.75%	■ Same
■ Payroll	■ Aggregate increases – 3.00%	■ Aggregate increases – 3.00%
Increases	■ Merit Increases – Same as	■ Merit Increases – Same as
	6/30/17 MCERA assumptions	6/30/19 MCERA assumptions
	·	(no change from 6/30/17
		MCERA valuation)
■ Cap Increases	■ None	■ Same



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ACTUARIAL ASSUMPTIONS HIGHLIGHTS

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Assumption	June 30, 2017 Valuation	June 30, 2019 Valuation
■ Participation	■ Actives:	■ Actives:
at Retirement	Capped benefit:	Capped benefit:
	➤ Currently covered: 100%	➤ Currently covered: 90%
	Currently waived: 80%	➤ Currently waived: 70%
	• PEMHCA minimum: 60%	• PEMHCA minimum: 60%
	■ Retirees: same as current election	■ Retirees: same as current election
■ Medicare Eligible Rate	 Actives and Retirees under 65: Hired < 4/1/86: 80% Misc, 90% Safety Hired > 4/1/86: 100% Retirees over 65: current 	 Actives and Retirees under 65: Hired < 4/1/86: 85% Misc, 95% Safety Hired > 4/1/86: 100% Retirees over 65: Same
	Medicare eligible status	
■ PPACA High	■ 2.0% cash subsidy load	■ Removed
Cost Plan		
Excise Tax		

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ACTUARIAL ASSUMPTIONS HIGHLIGHTS

Assumption	June 30, 2017 Valuation	June 30, 2019 Valuation
■ Mortality, Withdrawal, Disability	 6/30/17 MCERA valuation assumptions Pre-retirement mortality: projected 15-year static with 90% of MP-2016 Post-retirement mortality: projected fully generational with Scale MP-2017 	 Same Mortality projected fully generational with Scale MP-2019



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ACTUARIAL ASSUMPTIONS HIGHLIGHTS

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Assumption	June	30, 2017 V	aluation	June	30, 2019 V	aluation
■ Healthcare Trend		Non- Medicare	Medicare		Non- Medicare	Medicare
Ticha	Year	All	Plans	Year	All	Plans
	2017	Actual 1	Premiums	2017	n	/a
	2018	Actual 1	Premiums	2018	n	/a
	2019	7.50%	6.50%	2019	Actual P	remiums
	2020	7.50%	6.50%	2020	Actual P	remiums
	2021	7.25%	6.30%	2021	7.25%	6.30%
	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%
	2031-2035	5.05%	4.60%	2031-2035	5.05%	4.60%
	2036-2045	4.90%	4.50%	2036-2045	4.90%	4.50%
	2046-2055	4.75%	4.45%	2046-2055	4.75%	4.45%
	2056-2065	4.60%	4.40%	2056-2065	4.60%	4.40%
	2066-2075	4.30%	4.20%	2066-2075	4.30%	4.20%
	2076+	4.00%	4.00%	2076+	4.00%	4.00%





ASSETS

Market Value of Plan Assets¹⁷ (000's Omitted)

	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19
■ Market Value	\$ 10,889	\$ 11,178	\$ 12,666	\$ 15,492	\$ 15,608	\$ 15,757	\$ 17,873	\$ 19,824
(beginning of year)								
 Contribution 	-	500	500	150	-	460	535	646
• Benefit Payments	-	-	-	-	-	-	-	-
• Administrative Expenses ¹⁸	n/a	(0)	(19)	(16)	(13)	(8)	(9)	(10)
• Investment Expenses	n/a	n/a	n/a	n/a	n/a	(6)	(7)	(7)
• Investment Return	289	988	2,346	(19)	162	1,670	1,432	1,233
■ Market Value (end of year)	11,178	12,666	15,492	15,608	15,757	17,873	19,824	21,685
Approximate Return	2.7%	8.8%	18.4%	-0.2%	1.0%	10.6%	7.9%	6.1%

MCERA 401(h) account transferred to CERBT 6/26/13.
 Commencing 2015/16 CalPERS issues audited financial statements which differ from above.
 Beginning in 2016/2017, investment expenses provided separately



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ASSETS

Actuarial Value of Plan Assets¹⁹ (000's Omitted)

	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19
Actuarial Value (beginning of year)	\$10,861	\$11,130	\$12,505	\$14,253	\$15,499	\$16,449	\$18,057	\$19,806
• Contribution	-	500	500	150	-	460	535	646
• Benefit Payments	-	-	-	-	-	-	-	-
• Credited Return	269	875	1,248	1,096	950	1,148	1,214	1,309
Actuarial Value (end of year)	11,130	12,505	14,253	15,499	16,449	18,057	19,806	21,761
■ Approximate Return	2.6%	7.9%	10.0%	7.7%	6.1%	7.0%	6.7%	6.6%

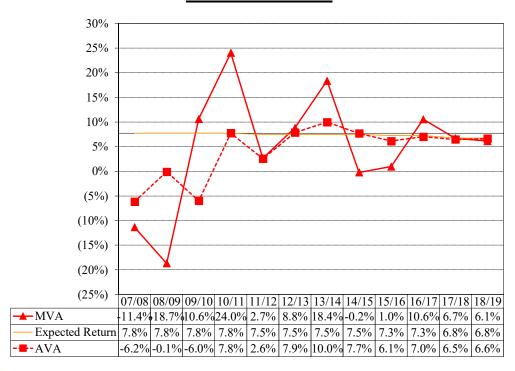
 $^{^{19}}$ MCERA asset smoothing through 6/30/12. Rolling 5 year smoothing starting in 2012/13.





ASSETS

Historical Returns





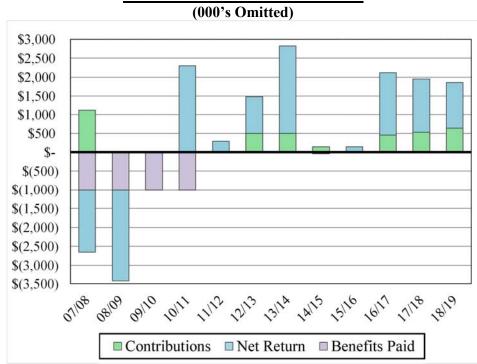
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ASSETS

Actuarial Value of Plan Assets



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Funded Status (000's Omitted)

	6/30/17 V	Valuation	6/30/19 Valuation		
	6/30/17	Projected 6/30/18	6/30/19	Projected 6/30/20	
■ Present Value of Benefits					
• Actives	\$ 21,211		\$ 17,439		
• Retirees	<u>36,891</u>		<u>36,612</u>		
• Total	58,102		54,051		
■Actuarial Accrued Liability					
• Actives	14,690		11,671		
• Retirees	<u>36,891</u>		<u>36,612</u>		
• Total	51,581	\$ 52,893	48,283	\$ 48,890	
■Actuarial Value of Assets	18,057	<u>19,709</u>	<u>21,761</u>	<u>23,645</u>	
■Unfunded AAL	33,524	33,184	26,522	25,245	
■ Funded Ratio	35.0%	37.2%	45.1%	48.4%	



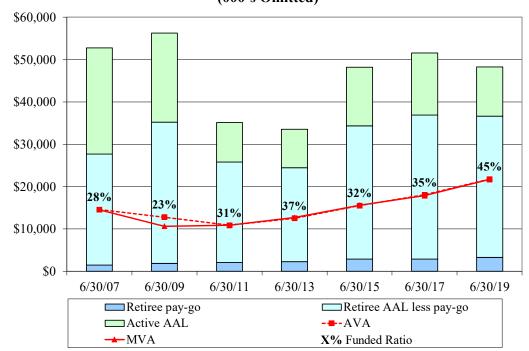
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Historical Funded Status (000's Omitted)



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Actuarial Accrued Liability Gain/Loss (000's Omitted)

	AAL
■ Actual @ 6/30/17	\$ 51,581
■ Expected @ 6/30/19	54,173
■ Changes	
 Mortality improvement projection 	(252)
 Medicare eligibility assumption change 	(508)
Participation at retirement change	(1,229)
• Remove ACA Excise Tax	(745)
• Premiums < Expected	(6,342)
• Demographic/Other	$3,187^{20}$
• Total	(5,890)
■ Actual @ 6/30/19	48,283

²⁰ Primarily due to retirees turning 65 in non-Medicare plans.



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RESULTS

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Actuarially Determined Contribution (ADC) (000's Omitted)

	6/30/20	17 Val	6/30/2019 Val		
	2018/19	2019/20	2020/21	2021/22	
■ ADC - \$					
• Service Cost ²¹	\$ 880	\$ 863	\$ 746	\$ 744	
UAAL Amortization	<u>2,732</u>	<u>2,814</u>	<u>2,280</u>	<u>2,349</u>	
• Total ADC	3,612	3,677	3,027	3,093	
■ Projected Payroll	34,486	35,520	34,496	35,531	
■ ADC - %					
Service Cost	2.6%	2.4%	2.2%	2.1%	
 UAAL Amortization 	7.9%	7.9%	6.6%	6.6%	
• Total ADC	10.5%	10.4%	8.8%	8.7%	

 $^{^{21}\,}$ Service cost include estimated CERBT and PEMHCA administrative expenses.



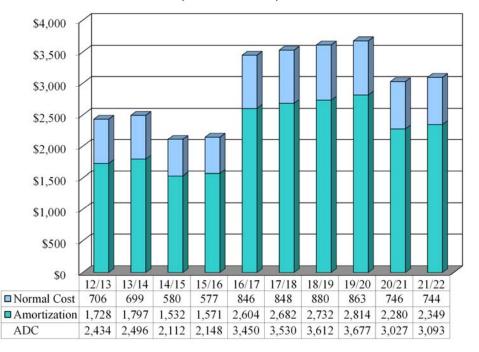
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Actuarially Determined Contribution (ADC) (000's Omitted)



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Amortization Bases (000's Omitted)

	6/30/20	017 Val	6/30/2019 Val		
	6/30/18	6/30/19	6/30/20	6/30/21	
■ Outstanding Balance					
Initial UAAL	\$ 44,331	\$ 43,674	\$ 42,863	\$ 41,885	
• (Gain)/Loss					
≥ 2009 valuation	(4,232)	(4,169)	(4,092)	(3,998)	
➤ 2011 valuation	(26,284)	(25,894)	(25,413)	(24,833)	
➤ 2013 valuation	(2,812)	(2,771)	(2,719)	(2,657)	
≥ 2015 valuation	12,401	12,218	11,991	11,717	
➤ 2017 valuation	851	838	823	804	
≥ 2019 valuation	-	-	(6,840)	(6,684)	
• Contribution Loss (projected)	<u>8,928</u>	8,796	8,632	8,435	
• Total	33,184	32,692	25,245	24,669	



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Amortization Payments (000's Omitted)

	6/30/20	017 Val	6/30/2019 Val		
	2018/19	2019/20	2020/21	2021/22	
■ Payment					
Initial UAAL	\$ 3,649	\$ 3,759	\$ 3,872	\$ 3,988	
• (Gain)/Loss					
≥ 2009 valuation	(348)	(359)	(370)	(381)	
≥ 2011 valuation	(2,164)	(2,229)	(2,296)	(2,364)	
≥ 2013 valuation	(232)	(238)	(246)	(253)	
≥ 2015 valuation	1,021	1,052	1,083	1,116	
≥ 2017 valuation	70	72	74	77	
≥ 2019 valuation			(618)	(636)	
• Contribution Loss (projected)	<u>735</u>	<u>757</u>	<u>780</u>	803	
• Total	2,732	2,814	2,280	2,349	
Amortization years	17	16	15	14	





Contributions Projection (000's Omitted)

		Contr				
Fiscal Year	Cash Benefit Payments	Implied Subsidy Benefit Payments	Pre- Funding	Total Contribution	Payroll	Contribution as % of Payroll
2020/21	\$ 2,538	\$ 757	\$ (268)	\$ 3,027	\$ 34,496	8.8%
2021/22	2,584	767	(258)	3,093	35,531	8.7%
2022/23	2,644	785	(275)	3,154	36,597	8.6%
2023/24	2,713	814	(306)	3,221	37,694	8.5%
2024/25	2,773	848	(326)	3,295	38,825	8.5%
2025/26	2,806	845	(279)	3,372	39,990	8.4%
2026/27	2,871	896	(318)	3,449	41,190	8.4%
2027/28	2,932	943	(343)	3,532	42,425	8.3%
2028/29	2,975	973	(332)	3,616	43,698	8.3%
2029/30	2,998	1,006	(301)	3,703	45,009	8.2%



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RESULTS

Discount Rate Sensitivity (000's Omitted)

	5.50%	6.25%	6.75%	7.25%
■ PVPB on 6/30/19	\$ 63,468	\$ 57,511	\$ 54,051	\$ 50,939
■ Funded Status @ 6/30/19				
• AAL	55,125	50,841	48,283	45,935
• Assets	24,844	22,914	<u>21,761</u>	20,703
• Unfunded AAL	30,281	27,927	26,522	25,232
■ 2020/21 ADC				
 Service Cost 	\$ 979	\$ 831	\$ 746	\$ 672
• UAAL Amort.	2,656	<u>2,427</u>	<u>2,280</u>	2,139
• Total ADC	3,635	3,257	3,027	2,812
• ADC as % of Pay	10.5%	9.4%	8.8%	8.2%





Actuarial Obligations – June 30, 2019 (000's Omitted)

	Cash Subsidy	Implied Subsidy	Total
■ Present Value of Benefits			
• Actives	\$ 10,913	\$ 6,526	\$ 17,439
• Retirees	<u>28,666</u>	<u>7,946</u>	<u>36,612</u>
• Total	39,579	14,472	54,051
■ Actuarial Accrued Liability (AAL)			
• Actives	7,544	4,126	11,671
• Retirees	<u>28,666</u>	7,946	<u>36,612</u>
• Total	36,210	12,072	48,283
■ Actuarial Value of Assets ²²	16,320	5,441	<u>21,761</u>
■ Unfunded AAL	19,890	6,631	26,522
■ 2020/21 Service Cost	479	267	746
■ 2020/21 Pay-As-You-Go Cost	2,538	757	3,295

²³ For illustrative purposes, assets allocated on AAL.



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RESULTS

<u>Actuarially Determined Contribution (ADC) – Fiscal Year 2020/21</u> (000's Omitted)

	Cash Subsidy	Implied Subsidy	Total
■ ADC - \$	Subsidy	Subsidy	Total
Service Cost	\$ 479	\$ 267	\$ 746
UAAL Amortization	<u>1,704</u>	<u>576</u>	<u>2,280</u>
• Total	2,183	843	3,027
■ Projected Payroll	34,496	34,496	34,496
■ ADC - %			
Service Cost	1.4%	0.8%	2.2%
UAAL Amortization	4.9%	<u>1.7%</u>	6.6%
• Total	6.3%	2.4%	8.8%





Actuarial Obligations – June 30, 2019 (000's Omitted)

	Miscellaneous	Safety	Total
■ Present Value of Benefits			
• Actives	\$ 10,486	\$ 6,953	\$ 17,439
• Retirees	22,108	<u>14,504</u>	<u>36,612</u>
• Total	32,594	21,457	54,051
■ Actuarial Accrued			
Liability (AAL)			
• Actives	7,387	4,284	11,671
• Retirees	<u>22,108</u>	<u>14,504</u>	<u>36,612</u>
• Total	29,495	18,788	48,283
■ Assets ²³	<u>13,293</u>	8,468	<u>21,761</u>
■ Unfunded AAL	16,202	10,320	26,522
■ Service Cost (20/21)	430	316	746
■ Pay Go Costs (20/21)	2,012	1,283	3,295

²³ For illustrative purposes, assets allocated on AAL.



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RESULTS

Actuarially Determined Contribution (ADC) – Fiscal Year 2020/21 (000's Omitted)

	Miscellaneous	Safety	Total
■ ADC- \$			
Normal Cost	\$ 430	\$ 316	\$ 746
• UAL Amortization ²⁴	1,392	<u>888</u>	<u>2,280</u>
Total ADC	1,822	1,205	3,027
■ Projected Payroll	18,321	16,175	34,496
■ ADC - %			
Normal Cost	2.3%	2.0%	2.2%
UAL Amortization	<u>7.6%</u>	<u>5.5%</u>	6.6%
• Total ADC	9.9%	7.4%	8.8%

²⁴ For illustrative purposes, amortization amount allocated on AAL.





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Parking Fund/SRSD

Actuarial Obligations – June 30, 2019 (000's Omitted)

	Parking Fund	SRSD
■ PVPB		
• Actives	\$ 806	\$ 1,119
• Retirees	685	<u>1,336</u>
• Total	1,491	2,455
■ AAL		
• Actives	475	813
• Retirees	685	<u>1,336</u>
• Total	1,160	2,149
■ Assets ²⁵	523	969
■ Unfunded AAL	637	1,180
■ Pay Go Costs (20/21)	82	113

²⁵ For illustrative purposes, assets allocated on AAL.



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RESULTS

Parking Fund/SRSD Results

Actuarially Determined Contribution (ADC) – Fiscal Year 2020/21 (000's Omitted)

	Parking Fund	SRSD
■ ADC- \$		
Service Cost	\$ 44	\$ 43
• UAL Amortization ²⁶	<u>56</u>	<u>104</u>
• Total ADC	100	147
■ Projected Payroll	1,342	1,292
■ ADC - %		
Service Cost	3.3%	3.3%
 UAL Amortization 	4.2%	8.1%
Total ADC	7.5%	11.4%

²⁶ For illustrative purposes, amortization amount allocated on AAL.





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ACTUARIAL CERTIFICATION

This report presents the City of San Rafael Retiree Healthcare Plan ("Plan") June 30, 2019 actuarial valuation. The 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,

Doug Pryor, ASA, EA, MAAA Vice President

Vice President Bartel Associates, LLC June 29, 2020 Tak Frazita, ASA, EA, MAAA Associate Actuary

Associate Actuary Bartel Associates, LLC June 29, 2020



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ACTUARIAL CERTIFICATION

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2019 PEMHCA Monthly Premiums Bay Area

	Non-Medicare Eligible			Me	edicare Eli	gible
Plan	Single	2-Party	Family	Single	2-Party	Family
Anthem Select	\$ 831.44	\$ 1,662.88	\$ 2,161.74	n/a	n/a	n/a
Anthem Traditional	1,111.13	2,222.26	2,888.94	\$ 357.44	\$ 714.88	\$ 1,072.32
Blue Shield Access+	970.90	1,941.80	2,524.34	n/a	n/a	n/a
Health Net SmartCare	901.55	1,803.10	2,344.03	n/a	n/a	n/a
Kaiser	768.25	1,536.50	1,997.45	323.74	647.48	971.22
UnitedHealthcare	n/a	n/a	n/a	299.37	598.74	898.11
Western Health						
Advantage	767.01	1,534.02	1,994.23	n/a	n/a	n/a
PERS Choice	866.27	1,732.54	2,252.30	360.41	720.82	1,081.23
PERS Select	543.19	1,086.38	1,412.29	360.41	720.82	1,081.23
PERSCare	1,131.68	2,263.36	2,942.37	394.83	789.66	1,184.49



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PARTICIPANT STATISTICS

2020 PEMHCA Monthly Premiums Region 1

	Non-Medicare Eligible			Mo	edicare Elig	ible
Medical Plan	Single	2-Party	Family	Single	2-Party	Family
Anthem Select	\$ 868.98	\$ 1,737.96	\$ 2,259.35	\$ 388.15	\$ 776.30	\$1,164.45
Anthem Traditional	1,184.84	2,369.68	3,080.58	388.15	776.30	1,164.45
Blue Shield Access+	1,127.77	2,255.54	2,932.20	n/a	n/a	n/a
Blue Shield Trio	833.00	1,666.00	2,165.80	n/a	n/a	n/a
Health Net SmartCare	1,000.52	2,001.04	2,601.35	n/a	n/a	n/a
Kaiser	768.49	1,536.98	1,998.07	339.43	678.86	1,018.29
UnitedHealthcare	899.94	1,799.88	2,339.84	327.03	654.06	981.09
Western Health						
Advantage	731.96	1,463.92	1,903.10	n/a	n/a	n/a
PERS Choice	861.18	1,722.36	2,239.07	351.39	702.78	1,054.17
PERS Select	520.29	1,040.58	1,352.75	351.39	702.78	1,054.17
PERSCare	1,133.14	2,266.28	2,946.16	384.78	769.56	1,154.34





Participant Statistics June 30, 2019

	Miscellaneous	Police	Fire	Total
■ Actives				
• Count	226	64	66	356
 Average Age 	45.4	39.1	39.1	43.1
 Average Service 	10.6	11.1	9.9	10.5
 Average Pay 	\$ 78,700	\$ 115,100	\$ 126,300	\$ 94,100
• Payroll (\$000s)	17,787	7,368	8,336	33,491
■ Retirees				
➤ Count < 65	57	18	31	106
➤ Count ≥ 65	<u>139</u>	<u>46</u>	<u>68</u>	<u>253</u>
> Total	196	64	99	359
 Average Age 	70.7	68.0	70.7	70.3
• Avg. Svc Ret. Age	59.7	55.1	55.2	57.9



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PARTICIPANT STATISTICS

Participant Statistics June 30, 2017

	Miscellaneous	Police	Fire	Total
■ Actives				
• Count	231	66	69	366
Average Age	46.6	41.2	38.8	44.2
Average Service	11.6	12.1	9.7	11.3
 Average Pay 	\$ 72,200	\$ 113,100	\$ 121,300	\$ 88,800
• Payroll (\$000s)	16,672	7,463	8,371	32,506
■ Retirees				
➤ Count < 65	54	18	36	108
➤ Count ≥ 65	<u>125</u>	<u>44</u>	<u>60</u>	<u>229</u>
> Total	179	62	96	337
 Average Age 	70.6	68.7	69.7	70.0
• Avg. Svc Ret. Age	59.3	54.5	54.9	57.5





Medical Plan Participation²⁷

Medical Plan	A ativas	_	Retirees				
Medical Plan	Actives	< 65	≥ 65	Total			
Anthem Traditional	5%	1%	0%	0%			
Blue Shield Access+	1%	9%	1%	4%			
Health Net SmartCare	3%	6%	0%	2%			
Kaiser	77%	54%	50%	51%			
United Healthcare	0%	1%	12%	9%			
Western Health Advantage	3%	0%	0%	0%			
PERS Choice	4%	8%	12%	11%			
PERS Select	1%	0%	0%	0%			
PERS Care	1%	6%	23%	17%			
PORAC	5%	15%	2%	6%			
Total	100%	100%	100%	100%			

²⁷ Excludes waived participants.



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PARTICIPANT STATISTICS

Active Medical Coverage

Medical Plan	Single	2-Party	Family	Waived	Total
Anthem Traditional	7	3	5	-	15
Blue Shield Access+	1	-	2	_	3
Health Net SmartCare	1	3	4	-	8
Kaiser	85	47	84	-	216
Western Health Advantage	-	-	7	-	7
PERS Choice	6	3	3	-	12
PERS Select	2	-	2	-	4
PERSCare	-	1	2	-	3
PORAC	6	4	5	-	15
Waived	-	-	-	73	73
Total	108	61	114	73	356





Retiree Medical Coverage – Under Age 65

Medical Plan	Single	2-Party	Family	Total
Anthem Traditional	_	1	-	1
Blue Shield Access+	5	2	3	10
Health Net SmartCare	4	2	-	6
Kaiser	34	18	5	57
United Healthcare	-	1	-	1
PERS Choice	5	3	1	9
PERSCare	3	2	1	6
PORAC	7	9	-	16
Total	58	38	10	106





PARTICIPANT STATISTICS

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Retiree Medical Coverage - Over Age 65

Medical Plan	Single	2-Party	Family	Total
Blue Shield Access+	2	-	1	3
Kaiser	63	56	6	125
United Healthcare	19	12	-	31
PERS Choice	16	13	1	30
PERS Select	1	-	-	1
PERSCare	33	23	1	57
PORAC	2	4	-	6
Total	136	108	9	253





Actives by Age and City Service Miscellaneous

	City Service									
Age	< 1	1-4	5-9	10-14	15-19	20-24	≥ 25	Total		
< 25	4	11	2	-	-	-	-	17		
25-29	4	10	3	1	-	-	-	18		
30-34	3	12	2	3	-	-	-	20		
35-39	2	9	4	3	1	1	-	20		
40-44	4	9	4	9	5	1	-	32		
45-49	2	4	4	6	6	3	1	26		
50-54	1	4	3	6	4	6	10	34		
55-59	2	8	4	1	2	4	6	27		
60-64	1	3	1	9	4	3	3	24		
≥ 65	-	-	1	1	2	-	4	8		
Total	23	70	28	39	24	18	24	226		



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PARTICIPANT STATISTICS

Actives by Age and City Service Safety

		City Service										
Age	< 1	1-4	5-9	10-14	15-19	20-24	≥ 25	Total				
< 25	1	6	-	-	-	-	-	7				
25-29	1	10	5	-	-	-	-	16				
30-34	2	10	13	1	-	-	-	26				
35-39	1	4	14	6	1	-	-	26				
40-44	-	-	3	4	10	-	-	17				
45-49	-	-	1	4	12	5	-	22				
50-54	-	-	-	2	4	3	3	12				
55-59	-	-	1	-	-	-	-	1				
60-64	-	-	-	2	-	1	-	3				
≥ 65	-	-	-	-	-	-	-	-				
Total	5	30	37	19	27	9	3	130				





Retiree Healthcare Coverage by Age Group Miscellaneous

Age	Single	2-Party	Family	Total
Under 50	-	-	1	1
50-54	1	-	-	1
55-59	16	3	1	20
60-64	20	12	3	35
65-69	21	18	4	43
70-74	23	20	-	43
75-79	14	8	-	22
80-84	11	5	-	16
Over 85	12	3	-	15
Total	118	69	9	196
Average Age	71.3	70.8	63.2	70.7



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PARTICIPANT STATISTICS

Retiree Healthcare Coverage by Age Group Safety

Age	Single	2-Party	Family	Total
Under 50	2	-	1	3
50-54	4	2	-	6
55-59	4	5	4	13
60-64	11	16	-	27
65-69	23	15	4	42
70-74	11	23	1	35
75-79	6	7	-	13
80-84	8	5	-	13
Over 85	7	4	-	11
Total	76	77	10	163
Average Age	70.1	70.2	62.0	69.7





ACTUARIAL ASSUMPTIONS

Assumption	June 30, 2017 Valuation			June	30, 2019 Va	luation
■ Service	■ 6/30/17 MCERA valuation			■ 6/30/19	MCERA va	aluation
Retirement	assump	otions		assump	otions	
		<u>Misc</u>	<u>Safety</u>		<u>Misc</u>	<u>Safety</u>
	Tier 1 ²⁸	2.7%@55	3%@55	Tier 1 ³¹	2.7%@55	3%@55
	ERA	61.9	54.6	ERA	62.0	55.1
	Tier 2 ²⁹	2%@55	3%@55	Tier 2 ³²	2%@55	3%@55
	ERA	62.9	54.6	ERA	63.3	55.8
	Tier 3 ³⁰	2%@62	2.7%@57	Tier 3 ³³	2%@62	2.7%@57
	ERA	CRA 61.3 54.2 I			61.7	54.3
■ Part Time	■ 25% PARS employees become			■ Same		
Employment	full tim	e eligible				

Final Average Pay based on 1 year (FAP 1); 3% COLA
 Hired ≥ 7/1/11 based on FAP 3 and 2% COLA



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ACTUARIAL ASSUMPTIONS

Assumption	June 3	30, 2017 Valuation	June 3	0, 2019 Valuation
■ PEMHCA Minimum Increases		es to \$136 for 2019, after 2019	estimate	s to \$139 for 2020, d \$143 for 2021, fter 2021
■ Medicare Part B Trend		Medicare 0.0% 3.7% 4.4% 5.1% enverging to Medical Trends after 2022		Medicare 4.4% 5.1% nverging to Medical Trends after 2022
■ Medical Plan at Retirement		ly covered: same as elections	■ Same	





PEPRA hired ≥ 1/1/13
 Final Average Pay based on 1 year (FAP 1); 3% COLA
 Hired ≥ 7/1/11 based on FAP 3 and 2% COLA
 PEPRA hired ≥ 1/1/13

ACTUARIAL ASSUMPTIONS

Assumption	June 30, 2017 Valuation	June 30, 2019 Valuation
■ Marital Status	 Covered actives and retirees – based on current coverage election Waived actives – 80% married 	■ Same
■ Spouse Age	■ Males 3 years older than females	■ Same
■ Dependents at Retirement	 Pre-65: Actives: 20% Retirees: same as current coverage Post-65: 0% 	■ Same



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ACTUARIAL ASSUMPTIONS

Assumption	June 30, 2017 Valuation	June 30, 2019 Valuation
■ Medicare Participation	■ For Pre-Medicare, all eligible elect City reimbursement of Part B	■ Same
	■ For those currently Eligible for Medicare, based on current coverage	
■ CERBT Administrative Expenses	■ Included in the ADC■ 0.05% of assets	■ Same
■ PEMHCA Administrative Expenses	■ Included in the ADC■ 0.33% of premiums	■ Included in the ADC■ 0.27% of premiums





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ACTUARIAL ASSUMPTIONS

Assumption	June 30,	aluatio	n	June	30, 201	9 Valuation			
■ HMO Medical	■ Sample est	■ Sample estimated monthly claims costs							
Claims Costs		Bay	Area Reg	ion - No	n-Medicar	e Eligible			
2019		HNS	S Care	<u>K</u>	<u> Laiser</u>	Wester	<u>n Health</u>		
PEMHCA	<u>Age</u>	$\underline{\mathbf{M}}$	<u>F</u>	<u>M</u>	<u>F</u>	$\underline{\mathbf{M}}$	<u>F</u>		
	25	\$325	\$569	\$281	\$492	\$277	\$484		
Implied	35	414	702	358	607	353	597		
Subsidy	45	592	862	511	745	504	733		
Estimate	55	982	1,143	849	987	836	972		
Estimate	60	1,239	1,299	1,071	1,122	1,055	1,105		
	65	1,403	1,406	1,213	1,215	1,195	1,196		
	70	1,494	1,490	1,291	1,287	1,272	1,267		
	75	1,570	1,566	1,357	1,352	1,336	1,331		
	80	1,650	1,646	1,426	1,421	1,405	1,399		
		Ba	y Area R	egion - N	Medicare E	ligible			
		HNS	S Care	K	<u> aiser</u>	Wester	n Health		
	Age	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>		
	65	n/a	n/a	\$294		n/a	n/a		
	70	n/a	n/a	313	312	n/a	n/a		
	75	n/a	n/a	329	328	n/a	n/a		
	80	n/a	n/a	345	345	n/a	n/a		



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ACTUARIAL ASSUMPTIONS

Assumption	June 30,	2017 V	aluation	n	June	30, 201	9 Valuation	
■ PPO Medical	■ Sample est	Sample estimated monthly claims costs						
Claims Costs	1	Bay	Area Reg	gion - No	nMedicare	Eligible		
2019		PERS	Choice	PERS	S Select	PER	SCare SCare	
	<u>Age</u>	<u>M</u>	<u>F</u>	$\underline{\mathbf{M}}$	<u>F</u>	<u>M</u>	<u>F</u>	
PEMHCA	25	\$253	\$473	\$183	\$356	\$324	\$596	
Implied	35	334	595	245	452	423	743	
Subsidy	45	498	742	375	569	623	924	
Estimate	55	866	1,007	670	780	1,071	1,243	
	60	1,111	1,156	868	900	1,368	1,423	
	65	1,271	1,261	996	985	1,561	1,549	
	70	1,359	1,342	1,067	1,050	1,666	1,646	
	75	,	1,413	,	1,107	1,754	*	
	80	1,508	1,489	1,187	1,168	1,846	1,824	
		Ва	ay Area R	egion - N	Aedicare E	ligible		
		<u>PERS</u>	Choice	PERS	S Select	<u>PER</u>	<u>SCare</u>	
	<u>Age</u>	<u>M</u>	<u>F</u>	$\underline{\mathbf{M}}$	<u>F</u>	$\underline{\mathbf{M}}$	<u>F</u>	
	65	\$291	\$352	\$291	\$352	\$303	\$366	
	70	316	384	316	384	329	399	
	75	331	403	331	403	345	419	
	80	348	423	348	423	362	440	





ACTUARIAL METHODS

Method	June 30, 2017 Valuation	June 30, 2019 Valuation
■ Cost Method	■ Entry Age Normal	■ Same
Amortization Method	■ Level percentage of payroll	■ Same
■ Actuarial Value of Assets	 ■ Investment gains and losses spread over 5-year rolling period ■ Not less than 80% nor more than 120% of market value 	■ Same
Amortization Period	■ 17-year fixed (closed) period for 6/30/18 UAAL	■ 15-year fixed (closed) period for 6/30/20 UAAL



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DEFINITIONS

GASBS 75 Accrual Accounting	 Project future employer-provided benefit cash flows for current active employees and current retirees Discount projected cash flow to valuation date using discount rate (assumed return on assets used to pay benefits) and other actuarial assumptions to determine present value of projected future benefits (PVB) Allocate PVB to past, current, and future periods using the actuarial cost method Actuarial cost method used for this valuation is the Entry Age Normal Cost
	method which determines Normal Cost as a level percentage of payroll (same method used by CalPERS) Normal Cost is amount allocated to current fiscal year Actuarial Accrued Liability (AAL) is amount allocated to prior service with employer Unfunded AAL (UAAL) is AAL less plan assets pre-funded in a segregated and restricted trust
■ PayGo Cost	 ■ Cash subsidy is employer pay-as-you-go benefit payments for retirees ■ Implied subsidy is difference between actual cost of retiree benefits and retiree premiums subsidized by active employee premiums

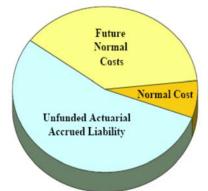




DEFINITIONS

Present Value of Benefits

Present Value of Benefits (Without Plan Assets)



Present Value of Benefits (With Plan Assets)



(B/A)

