

## **Notice of Public Meeting**

## The Board of Retirement

of the San Mateo County Employees' Retirement Association will meet on

### Tuesday, September 26, 2023, at 10:00 A.M.

**PUBLIC SESSION** – The Board will meet in Public Session at 10:00 a.m.

- 1. Call to Order, Roll Call and Miscellaneous Business
  - 1.1 Appointment of Ad Hoc CEO Review Committee

#### 2. Oral Communications

- 2.1 Oral Communications from the Board
- 2.2 Oral Communications from the Public

#### 3. Approval of the Minutes

3.1 Approval of Board Meeting Minutes from August 22, 2023

#### 4. Approval of the Consent Agenda\*

- 4.1 Disability Retirements (5)
  - Huynh, David
  - Peardon, Jason
  - Sanders, Michael
  - Solorzano, Maria
  - Talley, Leslie
- 4.2 Survivor Death Benefits
  - Hylden, Lowell

- 4.3 Service Retirements
- 4.4 Continuances
- 4.5 Deferred Retirements
- 4.6 Member Account Refunds
- 4.7 Member Account Rollovers
- 4.8 Member Account Redeposits
- 4.9 Acceptance of Trustees' Reports of Educational Activities
- 4.10 Approval of Questions for Annual Review of Auditor

#### 5. Benefit & Actuarial Services

- 5.1 Consideration of Agenda Items, if any, Removed from the Consent Agenda
- 5.2 Presentation of the June 30, 2023, Actuarial Valuation Report
- 5.3 Presentation of the June 30, 2023, Actuarial Valuation Audit
- 5.4 Approval of Resolution Accepting the 2023-2024 Employer and Employee Contribution Rates

#### 6. Investment Services

- 6.1 Report on Preliminary Monthly Portfolio Performance for the Period Ended August 31, 2023
- 6.2 Report on Opportunistic Credit Manager Annual Reviews
- 6.3 Approval of Proposed Alternative Investment (Confidential Under Gov. Codes §54956.81 and §7928.710, to be heard in Closed Session, C2)

#### 7. Board & Management Support

7.1 Approval of Resolution Setting the Board Meeting Schedule for 2024

#### 8. Management Reports

8.1 Chief Executive Officer's Report

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- 8.2 Assistant Executive Officer's Reports
- 8.3 Chief Investment Officer's Report
- 8.4 Chief Legal Counsel's Report

#### **CLOSED SESSION** – The Board may meet in closed session prior to adjournment

- C1 Consideration of Disability Items, if any, removed from the Consent Agenda
- C2 Approval of Proposed Alternative Investment (to be heard in Closed Session, Confidential Under Gov. Code §54956.81 and §7928.710, see item 6.3)
- C3 Conference with Legal Counsel Anticipated Litigation Significant Exposure to Litigation (Govt. Code section 54956.9(d)(2)) - One Case
- 9. Report on Actions Taken in Closed Session

#### 10. Adjournment in Memory of the Following Deceased Members:

Maze, Janet	August 3, 2023	District Attorney's Office
Cayago, Jose	August 6, 2023	San Mateo County Health
Melica, George	August 19, 2023	General Services
Phelps, Elaine	August 10, 2023	Hospital
Robinson, Ronald	August 28, 2023	<b>Human Services Agency</b>
Coleman, Jerome	August 24, 2023	District Attorney's Office
Hinshaw, Joan	August 30, 2023	Correctional Health
Holm, Carl	September 7, 2023	District Attorney's Office
Hickman, Philip	September 7, 2023	Coroner's Office
Cardoza, Ronald	September 8, 2023	Parks

Scott Hood, Chief Executive Officer

(\* ALL ITEMS ON THE CONSENT AGENDA ARE APPROVED BY ONE ROLL CALL MOTION UNLESS A REQUEST IS MADE BY A BOARD MEMBER THAT AN ITEM BE WITHDRAWN OR TRANSFERRED TO THE REGULAR AGENDA. ANY ITEM ON THE REGULAR AGENDA MAY BE TRANSFERRED TO THE CONSENT AGENDA. ANY 4.1 ITEMS REMOVED FROM THE CONSENT AGENDA WILL BE TAKEN UP UNDER CLOSED SESSION; ALL OTHER ITEMS REMOVED FROM THE CONSENT AGENDA WILL BE TAKEN UP UNDER ITEM 5.1.)

The Board Meets at 100 Marine Parkway, Suite 160, which is located on the SE Corner of Twin Dolphin & Marine Parkway in Redwood City. Detailed directions are available on the "Contact Us" page of the website <a href="www.samcera.org">www.samcera.org</a>. Free Parking is available in all lots in the vicinity of the building. A copy of the Board of Retirement's open session agenda packet is available for review at the SamCERA offices and on our website unless the writings are privileged or otherwise exempt from disclosure under the provisions of the California Public Records Act. Office hours are Monday through Thursday 7 a.m. – 6 p.m.

In compliance with the California Government Code and the Americans with Disabilities Act: SamCERA's facilities and board and committee meetings are accessible to individuals with disabilities. Contact SamCERA at (650) 599-1234 at least three business days prior to the meeting if (1) you need special assistance or a disability-related modification or accommodation, including auxiliary aids or services, in order to participate in this meeting; or (2) you have a disability and wish to receive the agenda, meeting notice, agenda packet or other writings that may be distributed at the meeting in an alternative format. Notification in advance of the meeting will enable SamCERA to make reasonable arrangements to ensure full accessibility to this meeting and the materials related to it.

Posted: September 20, 2023

## SAN MATEO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION Board of Retirement

September 26, 2023 Agenda Item 1.1

**TO:** Board of Retirement

FROM: Scott Hood, Chief Executive Officer

**SUBJECT:** Announcement of Appointment of Ad Hoc CEO Review Committee

#### **Ad Hoc Committee Appointments**

The Chair appoints Alma Salas, Nicole McKay and Elaine Orr, Chair to the Ad Hoc CEO Review Committee.

## SAN MATEO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION AUGUST 22, 2023 – REGULAR BOARD MEETING MINUTES

#### 2308.1 Call to Order, Roll Call and Miscellaneous Business

**Call to Order:** Mr. Battey, Chair, called the Regular Meeting of the Board of Retirement to order at 10:01 a.m.

#### **Roll Call:**

Present: Sandie Arnott, Mark Battey, Al David, April DeCarsky (for Katherine O'Malley), Kurt Hoefer, Elaine Orr, Robert Raw and Alma Salas.

Absent: Kimathi Marangu and Katherine O'Malley.

Alternates: Nicole McKay.

Staff: Lili Dames, Scott Hood, Jenny Lukan, Elizabeth LeNguyen, JulieAnne Nagal, Doris Ng, Paul Okada

and Gladys Smith.

Consultants: Joe Abdou and John Nicolini.

- 2308.1.1 **Announcement of Appointment of Board Committees:** Mr. Hood announced that the Board Committees will remain the same.
- 2308.2.1 **Oral Communications from the Board:** None.
- 2308.2.2 **Oral Communications from the Public:** Ms. Smith informed the Board that Ms. O'Malley had a happy, healthy baby boy on August 6<sup>th</sup>, 2023.
- 2308.3.1 **Approval of Board Meeting Minutes from July 25, 2023:** Mr. Battey asked if there were any changes or corrections, or objections, to the minutes from the regular meeting held on July 25, 2023. There were no changes, corrections, or objections presented.

**Action:** Mr. David moved to approve the minutes from the July 22, 2023 regular Board meeting. The motion was seconded by Mr. Hoefer and carried with a vote of 6-0, with trustees Battey, David, DeCarsky, Hoefer, Raw and Salas all in favor; Arnott and Orr abstained; none opposed.

2308.4.0 **Approval of the Consent Agenda:** Mr. Battey asked if there were any items to be removed for discussion from the Consent Agenda. No items were removed.

**Action:** Ms. Salas moved to approve the items on the Consent Agenda. The motion was seconded by Mr. Hoefer and carried with a vote of 8-0, with trustees Arnott, Battey, David, DeCarsky, Hoefer, Orr, Raw and Salas all in favor; none opposed.

#### 2308.4.1 **Disability Retirements:**

- a) The Board found that Susan Houser (1) is able to substantially perform her usual and customary duties as a Nurse Practitioner and a Sexual Assault Response Team (SART) Nurse and (2) denied her application for a service-connected disability retirement.
- b) The Board found that Lisa Linhares (1) is permanently incapacitated from the performance of her usual and customary duties as a Senior Electrograph Technician, (2) found that her disability was the result of an injury arising out of and in the course of her employment and (3) granted her application for a service-connected disability retirement.

c) The Board found that Heinz Puschendorf (1) is permanently incapacitated from the performance of his usual and customary duties as a Deputy Sheriff, (2) found that his disability was the result of an injury arising out of and in the course of his employment and (3) granted his application for a service-connected disability retirement.

#### 2308.4.2 **Survivor Death Benefits:**

a) The Board granted Elissa Vidal, widow of Jonathan Vidal, a non-service-connected disability death benefit pursuant to Government Code § 31781.3.

#### 2308.4.3 **Service Retirements:**

Name	<b>Effective Retirement Date</b>	Department
Amaya, Cecile	July 1, 2023	Aging & Adult Services
Arancibia, Maria Sara	June 29, 2023	Behavioral Health
Changtin, Glenn	July 1, 2023	Assessor Clerk Recorder Elections
De La Vega, Maria B	July 1, 2023	Assessor Clerk Recorder Elections
Galvan, Rick	June 10, 2023	Superior Court
Garcia, Neldy	July 1, 2023	Human Services Agency
Garcia, Reina	June 16, 2023	San Mateo County Health
Gonzalez, Alma	June 6, 2023	Deferred - Human Services
		Agency
Himenez, Tracy	July 1, 2023	QDRO of Carlos Smith
Moore, Dwight	June 2, 2023	Deferred - Probation
Pollack, Nicole	June 7, 2023	Deferred - Human Services
		Agency
Reed, Jason	June 25, 2023	Sheriff's Office
Smith, Carlos	March 25, 2022	Deferred - Probation
Solis, Rina	July 1, 2023	Assessor Clerk Recorder Elections
Watanabe, Anabel	July 1, 2023	Probation

#### 2308.4.4 Continuances:

Survivor's Name	Beneficiary of:
Anderson-Potts, Rebecca	Potts, Ronald
Brown, Frank	Brown, Joann
Domerofski, Kathleen	Domerofski, Charles
Kim, Robert	Kim, Solomon
Rabusa, Diane	Rabusa, Dolores
Wight, Karen	Bradley, Diane

#### 2308.4.5 **Deferred Retirements:**

Name	Retirement Plan Type
Bailey, Laura	G7, Vested - Auto Defer – Code 31700
Bleeker, Justine	S7/G7, Vested - Auto Defer – Code 31700
Caracheo Luna, Viridiana	G7, Vested
Cornejo, Madahi	G7, Vested - Auto Defer – Code 31700
Hagen, Michelle	P7, Vested - Auto Defer – Code 31700
Lange, Elizabeth	G7, Non-Vested - Reciprocity
Lolax, Molly	G4, Vested - Auto Defer – Code 31700
Mendoza, Ma Cherrie	G7, Vested - Auto Defer – Code 31700

Morales, Pamela G7, Non-Vested – Reciprocity Morgan, Shannon G4, Vested - Reciprocity Noryko, Jessica G4, Vested

#### 2308.4.6 Member Account Refunds:

Name **Retirement Plan Type** Booker, Anita (FBO Norris, Micah) G4, Vested Brown, Ashley G7, Non-vested Nordberg, Jeremy G5, Non-Vested Novelo, Yolanda G4, Vested Phillips, Thomas (FBO:Getz, Carol) G4, Vested Wong, Chi G7, Non-vested Zhu, Victor G7, Non-vested

#### 2308.4.7 Member Account Rollovers:

NameRetirement Plan TypeHurtado, ItzuriG7, VestedPhillips, Thomas (FBO:Getz, Carol)G4, VestedWilliams, EdwinaG7, Non-vested

- 2308.4.8 **Member Account Redeposits:** None.
- 2308.4.9 **Acceptance of Trustees' Reports of Educational Activities:** The Board accepted the submitted report for educational activities attended by Ms. McKay.
- 2308.4.10 Acceptance of Semi-Annual Compliance Certification Statements for Period Ended June 30, 2023: The Board accepted the semi-annual Compliance Certification Statements for SamCERA's non-alternative investment managers as of June 30, 2023.
- 2308.4.11 **Report on SamCERA's Securities Lending Program:** The Board accepted the report on SamCERA's Securities Lending Program as of June 30, 2022.
- 2308.4.12 **Report on Preliminary Financial Statements for the Fiscal Year Ended June 30, 2023:** The Board accepted the Preliminary Financial Statements for the Fiscal Year Ended June 30, 2023.
- 2308.4.13 **Report on Budget-to-Actual for the Fiscal Year Ended June 30, 2023:** The Board accepted the Preliminary Report on Budget-to-Actual for the fiscal year ended June 30, 2023.
- 2308.5.1 Consideration of Agenda Items, if any, Removed from the Consent Agenda: None.
- 2308.6.1 Report on Preliminary Monthly Portfolio Performance Report for the Period Ended July 31, 2023: Ms. Ng reported that SamCERA's net preliminary return for July was 1.5% bringing the preliminary trailing twelve-month net return ending July 2023 to 4%, which is below both SamCERA's benchmark return of 5.2% and assumed earnings rate of 6.25%. She reported SamCERA's estimated market value as of July was \$6.16 billion, while the actuarial funded ratio as of June 30, 2022, was 90.7%.
- 2308.6.2 **Report on Quarterly Investment Performance for the Period Ended June 30, 2023 (Amended):** Ms. Dames reported that the 2<sup>nd</sup> quarter net total return for the SamCERA portfolio was 2.1%, which was 80 bps lower than the 2.9% policy benchmark return. Mr. Nicolini and Mr. Abdou from Verus presented the Verus Quarterly Performance Report Ending June 30, 2023 to the Board.

- 2308.6.3 **Report on Defensive Fixed Income Manager Annual Reviews:** Ms. Ng reported that staff and consultant held annual review meetings with defensive fixed income bond managers, FIAM, NISA Investment Advisors and DoubleLine LP, on June 21 and 22. Each meeting lasted approximately 1.5 hours, and consisted of a firm/organizational update, investment process review, performance review and attribution, and current positioning/market outlook. There were no significant concerns identified during the portfolio reviews. This item was informational and for discussion only, no action was taken.
- 2308.6.4 **Report on Opportunistic Credit Manager Annual Reviews:** Ms. Ng reviewed the meeting notes from the annual reviews with opportunistic credit bond managers, Franklin Templeton (July 6), PIMCO, Beach Point, and Brigade Capital Management (July 13<sup>t</sup>. Each meeting lasted approximately 1.5-2 hours, and consisted of a firm/organizational update, investment process review, performance review and attribution, and current positioning/market outlook. This item was informational and for discussion only, no action was taken.
- 2308.7.1 **Approval of Amendment to Contract with Milliman:** Mr. Hood asked the Board to authorize him to negotiate and execute a one-year extension of the agreement with Milliman, Inc. for actuarial services through December 31, 2024 and increasing the not-to-exceed amount in accordance with the extension.

**Action:** Mr. Hoefer moved to approve the Resolution Authorizing the Chief Executive Officer to Execute an Amendment to the Agreement with Milliman, Inc. The motion was seconded by Mr. David and carried with a vote of 8-0, with trustees Arnott, Battey, David, DeCarsky, Hoefer, Orr, Raw and Salas all in favor; none opposed.

2308.7.2 Approval of Amendment to Contract with Managed Medical Review Organization, Inc (MMRO): Mr. Hood asked the Board to authorize him to execute an amendment to the agreement with Managed Medical Review Organization to increase the not to exceed amount due to rise in applications processed and independent medical examinations.

Action: Ms. Arnott moved to approve the Resolution Authorizing the Chief Executive Officer to Execute an Amendment to the Agreement with Managed Medical Review Organization (MMRO). The motion was seconded by Mr. David and carried with a vote of 8-0, with trustees Arnott, Battey, David, DeCarsky, Hoefer, Orr, Raw and Salas all in favor; none opposed.

- 2308.8.1 Chief Executive Officer's Report: Mr. Hood informed the Board that he and Mr. Raw attended the SACRS Board of Director's Meeting and that he attended the NCPERS Funding Forum for the first time. Mr. Hood also informed the Board that SamCERA is doing their Staff Planning Retreat on August 29<sup>th</sup>. Mr. Hood announced congratulations to SamCERA staff member Julieanne Nagal, who is celebrating 10 years of County employment. Lastly, Mr. Hood informed the Board that next month SamCERA will be having their annual valuation and audit of the valuation.
- 2308.8.2 **Assistant Executive Officer's Report:** Ms. Smith informed the Board that SamCERA is getting ready to launch the upgraded member self-service portal, which will go live September 5<sup>th</sup>. Ms. Lukan informed the Board of a few upcoming conferences including NCPERS Fall Conference, CALPRS Trustees Virtual Roundtable and SACRS Fall Conference, and she will send out an email regarding these conferences.
- 2308.8.3 **Chief Investment Officer's Report:** Ms. Ng informed the Board that on September 7, SamCERA will be having an annual review of the Brookfield Supercore Infrastructure fund. Additionally, on September 14, SamCERA will be meeting with Graham Quantitative Macro to review the Absolute Return portfolio, SSgA Custom Real Asset to review the Public Real Asset strategy, and Angelo Gordon CSF to review the credit solutions strategy.

2308.8.4 Chief Legal Counsel's Report: None.

C1 Consideration of Disability Items, if any, removed from the Consent Agenda: None.

C2 Conference with Real Property Negotiators (Gov. Code § 54956.8)
Property: 100 Marine Parkway, Suites 125 & 160, Redwood City, CA

**Agency Negotiator: Chief Executive Officer** 

Negotiating Parties: SamCERA; 1 Twin Property Owner LLC

**Under Negotiation: Price and terms** 

The Board met in Closed Session in order to meet with its real property negotiator regarding the following:

Property: 100 Marine Parkway, Suites 125 & 160, Redwood City, CA

Agency Negotiator: Chief Executive Officer

Negotiating Parties: SamCERA; 1 Twin Property Owner LLC

Under Negotiation: Price and terms

No reportable action was taken.

No other matters were heard in Closed Session.

2308.9.0 **Reports on Actions Taken in Closed Session:** Mr. Okada reported on Item C2 above. There were no additional closed session items.

2308.10 **Adjournment:** Mr. Battey adjourned the meeting at 10:49 a.m. in memory of the deceased members listed below, and also in the memory of Rex Arnott, the husband of fellow trustee Sandie Arnott.

Andrea, Rex	July 4, 2023	Human Services Agency
Hsu, Margaret	July 5, 2023	Public Health
Palamidessi, Flora	July 6, 2023	Library
Schauer, Donald	July 10, 2023	<b>Human Services Agency</b>
Perryman, Desmond	July 18, 2023	<b>Human Services Agency</b>
Ogata, Dennis	July 21, 2023	Information Services
Kawashima, Carolyn	July 26, 2023	<b>Human Services Agency</b>
Montalvo, Lilian	July 27, 2023	San Mateo County Health
Walker, Burton	July 29, 2023	Sheriff's Office

Mark Battey	
Chair	

## SAN MATEO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION Board of Retirement

September 26, 2023 Agenda Items 4.1- 4.9

**TO:** Board of Retirement

FROM: Elizabeth LeNguyen, Retirement Benefits Manager

**SUBJECT:** Approval of Consent Agenda Items 4.1 – 4.9

#### 4.1 Disability Retirements

a) The Board finds that **David Huynh** (1) is permanently incapacitated from the performance of his usual and customary duties as a Deputy Sheriff, (2) find that his disability was the result of an injury arising out of and in the course of his employment and (3) grant his application for a service-connected disability retirement.

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- b) The Board finds that **Jason Peardon** (1) is permanently incapacitated from the performance of his usual and customary duties as a Sheriff's Sergeant, (2) find that his disability was the result of an injury arising out of and in the course of his employment and (3) grant his application for a service-connected disability retirement.
- c) The Board finds that **Michael Sanders** (1) is permanently incapacitated from the performance of his usual and customary duties as a Deputy Sheriff, (2) find that his disability was the result of an injury arising out of and in the course of his employment and (3) grant his application for a service-connected disability retirement.
- d) The Board finds that **Maria Solorzano** (1) is permanently incapacitated from the performance of her usual and customary duties as a Patient Services Assistant II, (2) find that her disability was the result of an injury arising out of and in the course of her employment and (3) grant her application for a service-connected disability retirement.
- e) The Board finds that **Leslie Talley** (1) is permanently incapacitated from the performance of her usual and customary duties as a Deputy Sheriff, (2) find that her disability was the result of an injury arising out of and in the course of her employment and (3) grant her application for a service-connected disability retirement.

#### 4.2 Survivor Death Benefits

a) The Board find that **Lowell Hylden**, would have been entitled to a non-service-connected disability but has died, and Frank Schroeder, the surviving spouse, has elected to receive an optional death allowance pursuant to Government Code § 31781.3.

#### **4.3 Service Retirements**

The Board ratifies the service retirement for the individuals listed below as follows:

Name	Effective Retirement Date	Department
Aboud, Tami	July 22, 2023	Probation
Alvarez, Joann	July 22, 2023	Plan 3 Only – retired 1/19/23 under G2
Assadurian, Tami	July 29, 2023	Probation
Azzari, Zack	July 22, 2023	Public Works
Cole, Kenneth	July 22, 2023	Human Services Agency
Conover, Mark	July 1, 2023	Deferred - Weights & Measures
Douglas, Michelle	July 28, 2023	Superior Court
Early, Jason	July 6, 2023	Sheriff's Office
Enriquez, Jose	August 1, 2023	Family Health Services
Gonzalez, Frank	July 10, 2023	Probation
Kenevan, Bridget	August 1, 2023	Deferred - Mental Health
Langtry, Sharon	July 22, 2023	Aging & Adult Services
Leong, Leon	July 15, 2023	Assessor Clerk Recorder Elections
McCarty, Craig	August 1, 2023	Sheriff's Office
Miller, Loren	July 9, 2023	Probation
Muccia, Charles	July 12, 2023	QDRO of Tamara Wright
Okada, Karen	July 13, 2023	Deferred - Information Services
Saberi, Melissa	July 25, 2023	Deferred - Probation
Sharma, Pushpa	July 29, 2023	Superior Courts
Stevens, Lisa	September 13, 2021	Building and Planning
Tillman, Joan	August 1, 2023	Deferred - District Attorney's Office
Watt, Bryan	July 31, 2023	Sheriff's Office

#### 4.4 Continuances

The Board ratifies the granting of a continuance to the following individuals:

Survivor's Name	Beneficiary of:
Boyd, Corrine	Boyd, Jeffrey
Ogar, Janice	Andrea, Rex

#### **4.5 Deferred Retirements**

The Board ratifies the deferred retirements as listed below for the following individuals:

Name	Retirement Plan Type
Chin-Agustin, Cassandra	G7, Vested – Auto Defer – Code 31700
Chung, Ji Yuon	G7, Vested
Haupt, Jacquelyn	G7, Vested
Lomotan, Francesca	G7, Vested - Reciprocity
Liu, Xiaoyu	G7, Vested
Miyashiro, Rand	G4, Vested - Reciprocity
Nguyen, Viviann	S7, Vested - Reciprocity
Rosen, Nika	G7, Non-Vested Reciprocity
Villanueva, Jimenez	G4, Vested – Auto Defer – Code 31700
Wilson, Heather	G7, Vested - Auto Defer – Code 31700
Yee, Lisa	Gr7, Vested

#### **4.6 Member Account Refunds**

The Board ratifies the refunds as listed below for the following individuals:

Name	Retirement Plan Type
Arnold, Vettel	S7, Non-vested
Garnica, Yesenia (FBO: Garnica, Maribel)	P4, Vested
Guest-Brown, Stefaney	G7, Vested
Hiatt, Mikaela	G7, Non-vested
Maas Vargas, Ricardo Antonio	G7, Vested
Randall, David Scott	G7,Non-vested
Raymundo Abreu, Marisol	G7, Vested
Vidal, Jonathan (FBO: Vidal, Elissa)	G7, Vested

#### **4.7 Member Account Rollovers**

Name	Retirement Plan Type
Moore-Burdelle, Audrey	G7, Non-vested
Phelan, Paul	P4, Vested
Zherebin, Maksim	G7, Non-vested

#### **4.8 Member Account Redeposits**

None.

#### **4.9 Acceptance of Trustees' Reports of Educational Activities**

None.

## SAN MATEO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION Board of Retirement

September 26, 2023 Agenda Item 4.10

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**TO:** Board of Retirement

FROM: Gladys Smith, Assistant Executive Officer

**SUBJECT:** Approval of Questions for Annual Review of Brown Armstrong

Accountancy

#### Recommendation

Approve the evaluation questions in the "Questions for Annual Auditor Consultant Evaluation."

#### Discussion

The questions in the attached document will be submitted to SamCERA's auditor, Brown Armstrong, prior to the annual review, which will be scheduled for the December 5, 2023, Board meeting. In addition, there will be a survey of trustees and staff regarding Brown Armstrong's performance.

Staff will provide Brown Armstrong's responses to the questionnaire as well as the survey results at the December meeting.

#### **Attachment**

Questions for Annual Actuarial Consultant Evaluation

#### **Questions for Annual Auditor Consultant Evaluation**

Please provide information about the following events and activities and whether they occurred during Fiscal Year 2022-23.

#### **Organizational Update**

- 1) Provide an update on your firm's organization, with particular emphasis on changes to your management structure over the past twelve months. All significant changes should be accompanied by an explanation. An updated organizational chart should accompany this response.
- 2) Update all significant personnel changes or expected changes to the "SamCERA Team."
- 3) Has your firm or any of its employees been involved in regulatory or litigation actions related to your business in the past twelve months?
- 4) Has a peer review been performed on any of your firm's audit products? If yes, discuss the review and the findings. Any material findings or recommendations must be accompanied by an explanation.
- 5) Are any of your operations outsourced? If the answer is yes, provide details regarding the firm(s) with which your firm has contracted.
- 6) Please describe how your firm monitors and manages cyber security risks as they relate to confidential SamCERA data/information. Has your firm experienced any problems with cyber security in the past 18 months? What is your cyber security breach policy? What procedures do you have in place for a cyber security breach?

#### **Client Update**

- 7) What is your firm's philosophy and current policy regarding new business?
- 8) Please list all clients gained or lost in the past eighteen months.

#### **Outlook Beyond Fiscal Year 2022-23**

- 9) What issues are other clients concerned with regarding products, services, education and governance that your staff has not addressed with SamCERA?
- 10) Should SamCERA be made aware of significant changes that your clients are making?

11) Relative to your expertise, what trends are occurring in the retirement industry that SamCERA should be tracking?

#### Conclusion

- 12) How can SamCERA better assist you in accomplishing the goals it has established for your firm?
- 13) How can we better utilize your firm's capabilities?
- 14) Is there any information that would be timely pursuant to SamCERA's annual review?
- 15) What audit related changes should SamCERA consider that were not mentioned in your audit or audit presentation?

## SAN MATEO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION Board of Retirement

September 26, 2023 Agenda Item 5.2

**TO:** Board of Retirement

FROM: Scott Hood, Chief Executive Officer

**SUBJECT:** Presentation of the June 30, 2023, Actuarial Valuation Report by Milliman, Inc.

#### Recommendation

Milliman, Inc. will discuss the results of its Actuarial Valuation Report. This is for information only.

#### **Background**

Nick Collier and Craig Glyde of Milliman, Inc., will present the results and recommendations of its Actuarial Valuation Report as of June 30, 2023. This year's actuarial valuation process resulted in:

- An increase in the Employer Statutory Contribution rate from 26.19% (effective July 1, 2023) to 26.64% (effective July 1, 2024).
- An increase in the member contribution rates for all plans (effective July 1, 2024).
- A decrease in the funded ratio of the system from 90.7% as of June 30, 2022, to 88.3% as of June 30, 2023.

#### **Attachment**

San Mateo County Employees' Retirement Association June 30th, 2023 Actuarial Valuation



# San Mateo County Employees' Retirement Association

June 30, 2023 Actuarial Valuation

Prepared by:

Nick Collier, ASA, EA, MAAA Consulting Actuary Craig Glyde, ASA, EA, MAAA Consulting Actuary

Milliman, Inc. 1301 Fifth Avenue, Suite 3800 Seattle, WA 98101-2605 Tel +1 206 624 7940 milliman.com



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milliman.com

September 19, 2023

Board of Retirement San Mateo County Employees' Retirement Association 100 Marine Parkway, Suite 125 Redwood City, CA 4065-5208

Dear Members of the Board:

As requested, we have completed an actuarial valuation for the San Mateo County Employees' Retirement Association (SamCERA). The purpose of the valuation is to recommend the employer and member contribution rates for the fiscal year beginning July 1, 2024.

#### **Actuarial Certification - Per SamCERA Consulting Contract**

This actuarial valuation has been completed in accordance with generally accepted actuarial principles and practices, including Actuarial Standards of Practice (ASOPs) Nos. 4, 27, and 35. In particular, it reflects the actuary's responsibility under Section 5.8 ("Actuary's Responsibility) of ASOP No. 4 (1993 Reformatted Edition) for assessing the implications of overall results, in terms of short-range and long-range benefit security and expected cost progression. Note that this section no longer exists in the current ASOP No. 4; however, Milliman will continue to assess the results pursuant to the prior section.

To the best of our knowledge, the information supplied in this actuarial valuation is complete and accurate. Further, in our best professional judgment, the assumptions and methodologies as adopted by the Board of Retirement, individually and in combination, are reasonably related to the experience of and the expectations for SamCERA, and will not, in and of themselves, expose SamCERA to "unsound financial risk." In this regard, we consider "unsound financial risk" to mean the following:

- A substantial likelihood that future required contribution rates as a percentage of payroll will be dramatically
  higher than the rates shown in this report, given the uncertainties of actuarial projections and assuming the
  full payment of all recommended contributions; or
- A substantial likelihood that SamCERA's assets will be insufficient to pay benefit payments when due, given the uncertainties of actuarial projections and assuming the full payment of all recommended contributions.

In preparing this report, we have complied with all quality assurance procedures detailed on page 26 of our October 22, 2018 proposal titled "Actuarial Consulting Services Proposal."

#### **Actuarial Certification – Milliman**

The major findings of the valuation are contained in this report. This report reflects the benefit provisions as of June 30, 2023 and member contribution rates effective July 1, 2024. In preparing this report, we relied, without audit, on information (some oral and some in writing) supplied by SamCERA staff. This information includes, but is not limited to, statutory provisions, employee data, and financial information. We found this information to be reasonably consistent and comparable with information used for other purposes. The valuation results depend on the integrity of this information. If any of this information is inaccurate or incomplete, our results may be different, and our calculations may need to be revised.



All costs, liabilities, rates of interest, and other factors for SamCERA have been determined on the basis of actuarial assumptions and methods which are individually reasonable (taking into account the experience of SamCERA and reasonable expectations) and which, in combination, offer a reasonable estimate of anticipated experience affecting SamCERA and are expected to have no significant bias. Further, in our opinion, each actuarial assumption used is reasonably related to the experience of the Plan and to reasonable expectations, which, in combination, represent a reasonable estimate of anticipated experience for SamCERA.

The valuation results were developed using models employing standard actuarial techniques. We have reviewed the models, including their inputs, calculations, and outputs for consistency, reasonableness, and appropriateness to the intended purpose and in compliance with generally accepted actuarial practice and relevant actuarial standards of practice. Reliance on other experts is reflected in Milliman's capital market assumptions, and in Milliman's expected return model maintained by Milliman investment consultants.

This valuation report is only an estimate of SamCERA's financial condition as of a single date. It can neither predict SamCERA's future condition nor guarantee future financial soundness. Actuarial valuations do not affect the ultimate cost of benefits, only the timing of contributions. While the valuation is based on an array of individually reasonable assumptions, other assumption sets may also be reasonable and valuation results based on those assumptions would be different. No one set of assumptions is uniquely correct. Determining results using alternative assumptions is outside the scope of our engagement.

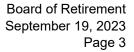
Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the Plan's funded status); and changes in plan provisions or applicable law. Due to the limited scope of our assignment, we did not perform an analysis of the potential range of future measurements. The Board of Retirement has the final decision regarding the appropriateness of the assumptions and adopted them as indicated in Appendix A.

Actuarial computations presented in this report are for purposes of determining the recommended funding amounts for SamCERA. The calculations in this report have been made on a basis consistent with our understanding of SamCERA's current funding requirements. Determinations for purposes other than meeting these requirements may be significantly different from the results contained in this report. Accordingly, additional determinations may be needed for other purposes.

Milliman's work is prepared solely for the internal business use of SamCERA. SamCERA may place the final version of this report on its website. Milliman's "work" to create this report, to the extent that Milliman's work is not subject to disclosure under applicable public records laws, may not be provided to third parties without Milliman's prior written consent. Milliman does not intend to benefit or create a legal duty to any third party recipient of its work product. Milliman's consent to release its work product to any third party may be conditioned on the third party signing a Release, subject to the following exceptions:

- (a) SamCERA may provide a copy of Milliman's work, in its entirety, to its professional service advisors who are subject to a duty of confidentiality and who agree to not use Milliman's work for any purpose other than to benefit SamCERA.
- (b) SamCERA may provide a copy of Milliman's work, in its entirety, to other governmental entities, as required by law.

No third party recipient of Milliman's work product should rely upon Milliman's work product. Such recipients should engage qualified professionals for advice appropriate to their own specific needs.





The consultants who worked on this assignment are actuaries. Milliman's advice is not intended to be a substitute for qualified legal or accounting counsel.

The signing actuaries are independent of the plan sponsors. We are not aware of any relationship that would impair the objectivity of our work.

On the basis of the foregoing, we hereby certify that, to the best of our knowledge and belief, this report is complete and accurate and has been prepared in accordance with generally recognized and accepted actuarial principles and practices, which are consistent with the principles prescribed by the Actuarial Standards Board and the Code of Professional Conduct and Qualification Standard for Actuaries Issuing Statements of Actuarial Opinion in the United States, published by the American Academy of Actuaries. We are members of the American Academy of Actuaries and meet the Qualification Standards to render the actuarial opinion contained herein.

We would like to express our appreciation to Scott Hood, Chief Executive Officer of SamCERA, and to members of his staff, who gave substantial assistance in supplying the data on which this report is based.

We respectfully submit the following report, and we look forward to discussing it with you.

Sincerely,

Nick Collier, ASA, EA, MAAA

Consulting Actuary

NC/CG/va

Craig Glyde, ASA, EA, MAAA Consulting Actuary

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#### 1. Summary of Findings

This report presents the results of the June 30, 2023 actuarial valuation, including the Employer Statutory Contribution Rate calculated for the fiscal year beginning July 1, 2024 and the Funded Ratio of SamCERA. The following table summarizes these key results from the current and prior valuations.

	June 30, 2023	June 30, 2022
Employer Statutory Contribution Rate (all employers)	26.64%	26.19%
County Statutory Contribution Rate	26.62%	26.19%
Funded Ratio	88.3%	90.7%

Key findings and results from the valuation are summarized below.

#### **Employer Statutory Contribution Rate**

The Statutory Contribution Rate (SCR) is comprised of the Employer Normal Cost rate and a separate component to amortize the Unfunded Actuarial Accrued Liability (UAAL). The SCR increased by 0.45% of pay to 26.64% of pay, from 26.19% of pay (calculated in the prior valuation). The SCR is a weighted average of the statutory contribution rates for each individual SamCERA plan. The actual percent of payroll to be contributed by each employer varies by plan, as shown in Section 6 of this report. All employers will see increases in their SCR; however, the San Mateo County Mosquito and Vector Control District (SMCM&VCD) will see the largest increase due to the DSCA balance being almost entirely utilized as of June 30, 2024.



Although the SCR is relatively similar to the prior year there were several changes over the year that had significant impacts, such as changes in

assumptions and funding methods, and the full amortization of the June 30, 2009 15-year amortization layer. Higher than assumed inflation and salary increases also had an impact on the SCR. In general, the impact of these changes was offset against each other. The "Analysis of Change" section that follows later in Section 1 provides an analysis of the sources of change in the SCR since last year. In addition, the section "Projected Future Employer Contribution Rates" below shows a 10-year projection of the statutory employer contribution rate.

The County Supplementary Contributions Account (CSCA) provides an offset of 4.48% of pay (compared to 4.59% of pay in the prior valuation) to the County's SCR, resulting in a County-only SCR of 26.62% of pay. Without the recognition of the CSCA, the County SCR would be 31.10% of pay.

The District Supplementary Contributions Account (DSCA) provides an offset of 0.10% of pay (compared to 2.72% of pay in the prior valuation) for SMCM&VCD. The decrease in the DSCA offset is due to the DSCA balance being almost entirely utilized as of June 30, 2024. As of June 30, 2024 the DSCA is projected to have a remaining balance of \$3,000.

Throughout this report we use the term SCA when referring to both of the CSCA and DSCA.

#### **Investment Return**



SamCERA's money-weighted net investment return on the market value of assets of 6.0% for the fiscal year ended June 30, 2023, was less than the assumed rate of 6.25%.

Under the asset smoothing method there is approximately \$273 million of unrecognized investment losses that will be recognized over the next five years. The market value of assets as of June 30, 2023 is approximately \$6.0 billion, and the actuarial value of assets (including non-valuation reserves) is approximately \$6.3 billion.

Due to the asset smoothing method and the recognition of prior year investment losses, the net result was a return on Valuation Assets of 4.5%, which is less than the assumed rate of 6.25%, and caused an

increase in the Statutory Contribution Rate (SCR) of 1.56% of pay and a decrease of 1.5% in the Funded Ratio. Note that this impact is strictly due to the smoothed investment return. Other factors caused additional changes to the SCR and Funded Ratio, as described in this report.

#### **Funding**

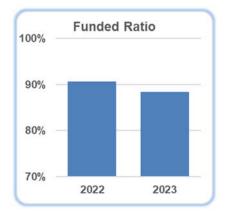
The Funded Ratio decreased from 90.7% to 88.3%, primarily due to assumption changes and the recognition of investment returns less than expected by the assumptions. On a market-value basis, the Funded Ratio decreased from 86.5% to 85.4%.

The "Analysis of Change" section that follows later in Section 1 provides an analysis of the sources of change in the Funded Ratio since last year.

The assets used in the calculation of the Funded Ratio include the value of the SCAs.

The County contributed \$10.0 million in excess of the SCR for the year ended June 30, 2023 which was credited to the CSCA. The District did not contribute

to the DSCA over the year ended June 30, 2023. In total, the CSCA has an actuarial value of \$224.7 million and the DSCA has an actuarial value of \$0.07 million as of June 30, 2023. Without the CSCA and DSCA the Funded Ratio would be 85.1% (instead of 88.3%) as of June 30, 2023.



#### **Economic and Demographic Assumptions**

The assumptions developed as a result of the 2023 Investigation of Experience study, described in our report dated July 18, 2023, were adopted by the Board for use in this valuation. The net effect of all the assumption changes was an increase in the Unfunded Actuarial Accrued Liability (UAAL) of approximately \$162 million effective June 30, 2023, a decrease in the Funded Ratio of 2.1%, and an increase in the employer contribution rate of 2.56% of payroll.

The new assumptions generally caused increases in the member contribution rates for all plans, as discussed below in the "Member Contributions Rate" section.

#### **Funding Method**

As a result of the 2023 Investigation of Experience study, the Board adopted changes in the UAAL amortization funding method for use in this valuation. Effective with the June 30, 2023 valuation all outstanding UAAL layers are combined into a single layer and reamortized over a 15-year period (fresh-start method) beginning July 1, 2024. New layers will be established in future years to amortize newly emerging gains and losses over their own 15-year closed period.

In addition, for each member class (i.e. General, Safety, Probation) the UAAL rate will be set equal to the greater of 1) the UAAL contribution rate for that class under the 15-year layered amortization approach with fresh-start in 2023; and 2) the UAAL contribution rate in effect for that class for the fiscal year beginning July 1, 2023, before reflecting any Supplemental Contribution Accounts.

The development of the FYB 2024 UAAL rates is shown below.

	Preliminary FYB 2024 Gross UAAL Rate (1)	FYB 2023 Gross UAAL Rate (2)	FYB 2024 Gross UAAL Rate (3) = max [ (1), (2) ]	SCA Offset	FYB 2024 UAAL Rate (3) + (4)
General - County	10.39%	15.86%	15.86%	-3.79%	12.07%
General - Courts	10.39%	15.86%	15.86%	0.00%	15.86%
SMCM&VCD	10.39%	15.86%	15.86%	-0.10%	15.76%
Probation	34.78%	44.77%	44.77%	-11.44%	33.33%
Safety	20.30%	36.97%	36.97%	-7.48%	29.49%
Total	12.27%	19.20%	19.16%	-4.27%	14.89%

#### Notes:

- 1. Column (1) is the UAAL contribution rates based on the 15-year fresh-start method as of June 30, 2023.
- 2. Column (2) is the FYB 2023 UAAL contribution rates before SCA offset, as calculated in the June 30, 2022 valuation. It reflects the remaining year of the phase-in of the June 30, 2021 assumption changes.
- 3. Column (3) is the FYB 2024 UAAL contribution rates before SCA offset. For individual classes and employers this is the greater of columns (1) and (2). The Total FYB 2024 Gross UAAL rate is an aggregate of the individual classes and may not equal the greater of the Total line for columns (1) and (2) due to the changing composition of the classes and employers.

The calculation of the Preliminary FYB 2024 Gross UAAL rates is shown in Exhibits 12a - 12c.

The aggregate FYB 2024 UAAL rate is 14.89% of pay after application of an aggregate 4.27% of pay credit for SCAs (shown above and in Exhibit 10). This compares to the aggregate FYB 2023 UAAL rate of 14.82% of pay after application of an aggregate 4.38% of pay credit for SCAs, as shown in Exhibit 10 of the June 30, 2022 valuation report.

These changes are projected to result in a smoother UAAL contribution rate over the upcoming years than the prior UAAL amortization funding method.

#### **Member Contribution Rates**

New member contribution rates are recommended for all plans effective July 1, 2024 based on the new assumptions adopted with the 2023 Investigation of Experience study. Member contribution rates for all plans, except Plan 3 (non-contributory) and Plan 7 (PEPRA), vary based on a member's entry age to SamCERA and the underlying actuarial assumptions. Plan 7 member contribution rates are required to be equal to 50% of the Gross Normal Cost Rate of the respective plans.

Exhibit 1b includes a summary of recommended member contribution rates. In general, there are increases for all plans.

For contributory legacy plans (non-Plan 7) the member contribution rates increased by about 1% to 7% on a relative basis, with younger entry ages tending to have the larger relative increases. In Plan 7 the member contribution rates increased in the range of 0.6% to 3.5% on a relative basis.

Member contribution rates are discussed in Section 5 of this report, and a complete list of all member contribution rates is shown in Appendix D.

#### **Summary of Contribution Rates**

The following exhibits summarize our recommendations to the Board.

## **Exhibit 1a Summary of Recommended Minimum Statutory Contribution Rates**

#### Recommendation #1: Adopt new Statutory Contribution Rates for fiscal year beginning July 1, 2024

	Fiscal Year	Increase /	
	July 1, 2024	July 1, 2023	(Decrease)
Gross Normal Cost Rate	24.16%	23.64%	0.52%
Average Member Contribution Rate	(12.41)%	(12.27)%	(0.14)%
Employer Normal Cost Rate	11.75%	11.37%	0.38%
UAAL Amortization Rate	14.89%	16.04%	(1.15)%
Calculated Employer Rate	26.64%	27.41%	(0.77)%
Deferred Recognition of 2021 Assumptions		(1.22)%	1.22%
Total Employer Rate	26.64%	26.19%	0.45%
County Contribution Rate	26.62%	26.19%	0.43%
Courts Contribution Rate	26.35%	26.02%	0.33%
SMCM&VCD Contribution Rate	28.03%	25.06%	2.97%

#### Notes:

- 1. Detailed contribution rates by plan are shown in Section 6.
- 2. The Total Employer Statutory Contribution Rate of 26.64% is the aggregate rate for all employers.
- 3. The UAAL Amortization rate (before SCA offset) for each member class is the greater of the FYB 2023 UAAL Amortization rate (with phase-in and before SCA offset) for the respective class and those calculated in this year's valuation (shown in Exhibits 12a 12c).

Exhibit 1b
Summary of Recommended Member Contribution Rates

Recommendation #2: Adopt new member contribution rates for fiscal year beginning July 1, 2024								
			Recomme	nded Rates		Current		
	Entry Age	Basic	50% COLA Sharing	Cost Sharing	Total as a % of Pay	Total as a % of Pay	Ratio (New/Curr	
eneral Member	s (not includ	ling SMCM&	VCD)					
Plan 1	25	8.07%	2.82%	3.00%	13.89%	13.41%	103.6%	
	35	9.27%	3.24%	3.00%	15.51%	15.15%	102.4%	
	45	10.68%	3.74%	3.00%	17.42%	17.26%	100.9%	
Plan 2	25	8.07%	3.38%	3.00%	14.45%	13.44%	107.5%	
	35	9.27%	3.88%	3.00%	16.15%	15.19%	106.3%	
	45	10.68%	4.47%	3.00%	18.15%	17.30%	104.9%	
Plan 4	25	7.78%	2.15%	3.00%	12.93%	12.49%	103.5%	
	35	8.94%	2.47%	3.00%	14.41%	14.07%	102.4%	
	45	10.25%	2.84%	3.00%	16.09%	15.93%	101.0%	
Plan 5	25	6.86%	1.86%	0.00%	8.72%	8.28%	105.3%	
	35	7.88%	2.13%	0.00%	10.01%	9.65%	103.8%	
	45	9.07%	2.46%	0.00%	11.53%	11.29%	102.1%	
Plan 7	All	7.74%	1.89%	0.00%	9.63%	9.30%	103.5%	
MCM&VCD Mer	nbers							
Plan 1	25	8.07%	0.00%	0.00%	8.07%	7.71%	104.7%	
	35	9.27%	0.00%	0.00%	9.27%	9.00%	103.0%	
	45	10.68%	0.00%	0.00%	10.68%	10.56%	101.1%	
Plan 2	25	8.07%	0.00%	0.00%	8.07%	7.71%	104.7%	
	35	9.27%	0.00%	0.00%	9.27%	9.00%	103.0%	
	45	10.68%	0.00%	0.00%	10.68%	10.56%	101.1%	
Plan 4	25	7.78%	0.00%	0.00%	7.78%	7.45%	104.4%	
	35	8.94%	0.00%	0.00%	8.94%	8.69%	102.9%	
	45	10.25%	0.00%	0.00%	10.25%	10.15%	101.0%	
Plan 7	All	7.73%	1.96%	0.00%	9.69%	9.45%	102.5%	

#### Notes:

<sup>1.</sup> All General members contribute 50% of the cost of COLA benefits except for all members of SMCM&VCD.

<sup>2.</sup> Plan 7 COLA share represents one-half of the cost of the COLA.

<sup>3.</sup> See Appendix B of this report for a full description of members COLA share. See Appendix D of this report for a full schedule of rates.

Exhibit 1b
Summary of Recommended Member Contribution Rates (continued)

Recommendation	1#2: Adop	t new memb	er contribution	rates for fisc	al year beginnin	g July 1, 2024	
			Recomme	nded Rates		Current	
	Entry Age	Basic	50% COLA Sharing	Cost Sharing	Total as a % of Pay	Total as a % of Pay	Ratio (New/Curr)
Safety Members							
Plan 1	25	11.12%	5.33%	5.00%	21.45%	20.83%	103.0%
	35	12.52%	6.00%	5.00%	23.52%	23.06%	102.0%
	45	14.18%	6.80%	5.00%	25.98%	25.65%	101.3%
Plan 2	25	11.12%	6.79%	5.00%	22.91%	21.38%	107.1%
	35	12.52%	7.65%	5.00%	25.17%	23.70%	106.2%
	45	14.18%	8.66%	5.00%	27.84%	26.38%	105.6%
Plan 4	25	10.68%	4.59%	5.00%	20.27%	19.60%	103.4%
	35	12.03%	5.17%	5.00%	22.20%	21.65%	102.5%
	45	13.36%	5.74%	5.00%	24.10%	23.72%	101.6%
Plan 5	25	10.68%	4.19%	4.00%	18.87%	18.32%	103.0%
	35	12.03%	4.72%	4.00%	20.75%	20.33%	102.1%
	45	13.36%	5.24%	4.00%	22.60%	22.36%	101.1%
Plan 6	25	10.68%	3.47%	0.00%	14.15%	13.66%	103.6%
	35	12.03%	3.91%	0.00%	15.94%	15.58%	102.3%
	45	13.36%	4.34%	0.00%	17.70%	17.51%	101.1%
Plan 7	All	12.35%	3.56%	0.00%	15.91%	15.81%	100.6%
Probation Membe	rs						
Plan 1	25	11.12%	5.92%	3.50%	20.54%	19.89%	103.2%
	35	12.52%	6.66%	3.50%	22.68%	22.21%	102.1%
	45	14.18%	7.55%	3.50%	25.23%	24.89%	101.4%
Plan 2	25	11.12%	6.89%	3.50%	21.51%	19.95%	107.9%
	35	12.52%	7.76%	3.50%	23.78%	22.27%	106.8%
	45	14.18%	8.79%	3.50%	26.47%	24.96%	106.1%
Plan 4	25	10.68%	4.46%	3.50%	18.64%	18.01%	103.5%
	35	12.03%	5.02%	3.50%	20.55%	20.05%	102.5%
	45	13.36%	5.58%	3.50%	22.44%	22.11%	101.5%
Plan 5	25	10.68%	3.87%	3.50%	18.05%	17.59%	102.6%
	35	12.03%	4.36%	3.50%	19.89%	19.57%	101.6%
	45	13.36%	4.85%	3.50%	21.71%	21.57%	100.6%
Plan 6	25	10.68%	3.25%	0.00%	13.93%	13.45%	103.6%
	35	12.03%	3.66%	0.00%	15.69%	15.34%	102.3%
	45	13.36%	4.07%	0.00%	17.43%	17.24%	101.1%
Plan 7	All	12.57%	3.66%	0.00%	16.23%	15.78%	102.9%

#### Notes:

- 1. All Safety and Probation members contribute 50% of the cost of COLA benefits.
- 2. Plan 7 COLA share represents one-half of the cost of the COLA.
- 3. See Appendix B of this report for a full description of members COLA share. See Appendix D of this report for a full schedule of rates.
- 4. Safety member cost sharing shown is for all members who are not Deputy Sheriffs. Cost sharing varies for Deputy Sheriffs.

#### Analysis of Change - Funded Ratio

A detailed analysis of the sources of changes in both the Statutory Contribution Rate and the Funded Ratio was performed. There were several factors that caused the changes, with the overall impact of these factors being a decrease in the Funded Ratio and an increase in the Statutory Contribution Rate from the prior valuation.

The following chart shows how the various factors affected the overall funding of SamCERA as compared to the prior valuation.

Sources of Change	Statutory Contribution Rate	Funded Ratio
Calculated Rate for 2023 (2022 valuation)	26.19%	90.7%
Expected Year-to-Year Change	-11.96%	2.1%
Assumption Changes	2.56%	-2.1%
Fresh Start Amortization	-0.81%	0.0%
Minimum 2023 UAAL rate	6.89%	0.0%
Recognized Investment Gain / Loss From Current Year From Prior Years Combined Investment Gain / Loss	0.08% 1.48% 1.56%	-0.1% -1.4% -1.5%
Payroll increases different than assumed Contributions different than assumed	-0.12% 0.00%	0.0% 0.0%
SCA Contribution Funding	-0.15%	0.2%
Liability Gain / Loss Salary increases different than assumed Retiree COLAs different than assumed Changes in Plan Membership Other Combined Liability Gain / Loss	0.48% 0.50% -0.05% 0.34% 1.27%	-0.5% -0.4% 0.0% -0.2% -1.1%
Deferred Recognition of 2021 Assumptions	1.22%	0.0%
Total Change	0.45%	-2.4%
Calculated Rate for 2024 (2023 valuation)	26.64%	88.3%

#### **Employer Statutory Contribution Rate**

The Statutory Contribution Rate (SCR) for each plan is equal to the payment of the Employer Normal Cost rate plus a 15-year layered amortization of the UAAL (excluding the CSCA and DSCA).

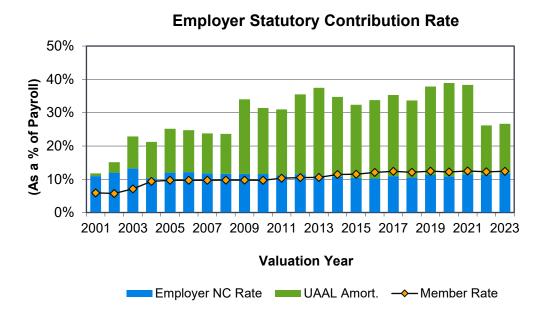
Effective with the June 30, 2023 valuation all outstanding UAAL layers are combined into a single layer and reamortized over a 15-year period (fresh-start method) beginning July 1, 2024. New layers will be established in future years to amortize newly emerging gains and losses over their own 15-year closed period. In addition, for each member class the UAAL rate will be set equal to the greater of 1) the UAAL rate for that class under the 15-year layered amortization approach with fresh-start in 2023; and 2) the UAAL contribution rate in effect for that class for the fiscal year beginning July 1, 2023 before reflecting any Supplemental Contribution Accounts.

The UAAL rate for the County is reduced to reflect the CSCA, as is the UAAL rate for SMCM&VCD to reflect the DSCA. The SCR (blended average for all employers) is 26.64% for the fiscal year beginning July 1, 2024.

It should be noted that these rates are a weighted average of each individual SamCERA plan. The actual percent of payroll to be contributed by each employer varies by plan. See Exhibit 10 for the SCR by classification and Exhibits 10a through 10d for the SCR by plan.

In our opinion, the SCRs calculated are adequate to maintain the funding of SamCERA based on the actuarial methods and assumptions shown in Appendix A of this report.

A historical perspective of the total SCR is shown in the following graph.



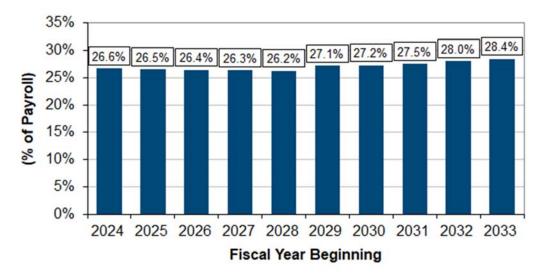
#### **Projected Future Statutory Employer Contribution Rate**

The statutory employer contribution rate beginning July 1, 2024 is 26.64% of payroll, which is a weighted average for all SamCERA plans. The actual percent of payroll to be contributed by the employers varies by plan as shown in Exhibit 10.

The new statutory employer contribution rate is effective for the fiscal year beginning July 1, 2024. Employer contribution rates in future years will be dependent on actual experience relative to that projected by the actuarial assumptions, particularly the investment return assumption. It is almost certain that actual experience will not exactly match the actuarial assumptions over the projection period, and a different pattern of projected employer contribution rate is likely to emerge. However, due to the funding method change there is a margin in the UAAL contribution rate to absorb some adverse experience without causing the SCR to increase.

We have performed a 10-year projection of the employer contribution rate that assumes all actuarial assumptions are met, and reflects the projected recognition of the deferred investment losses as of June 30, 2023 and the impact of the SCA offset as those layers begin to become fully amortized starting in 2029. This projection is shown in the graph below.

#### Projected Employer Contribution Rate



#### Notes:

- 1. Projections assume that all actuarial assumptions are met after June 30, 2023, and reflect the scheduled recognition of investment gains currently being deferred. Actual results will vary.
- 2. Projections assume no future SCA contributions.

Under this projected contribution schedule, and assuming future experience is exactly as assumed, SamCERA is projected to be 100% funded as of June 30, 2036.

#### **Funding Progress**

Based on the 2022 valuation, the expected UAAL as of June 30, 2023 was \$634 million. The actual UAAL for the fiscal year ended June 30, 2023 is \$820 million. This difference is due to a combination of factors, including salary increases and retiree cost of living adjustments (COLAs) larger than assumed, assumption changes as a result of the 2023 Investigation of Experience, and investment returns less than assumed.

The Funded Ratio compares the value of the Actuarial Value of Assets (net of certain non-valuation reserves) to the Actuarial Accrued Liability (AAL) for all SamCERA plans combined. Due primarily to investment returns less than assumed from 2001 through 2009, SamCERA's Funded Ratio decreased significantly over those years. In recent years, the Funded Ratio has improved, due primarily to better-than-assumed investment performance and strong funding by the employers.

#### **Historical Funded Ratios**



#### **Assets**

For the fiscal year ended June 30, 2023, SamCERA earned 6.0% on a market value basis net of investment and administrative expenses. Note that this rate of return may differ from that calculated by SamCERA and shown in the Annual Comprehensive Financial Report (ACFR) based on the calculation method.

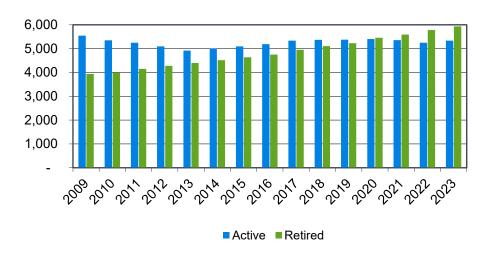
SamCERA uses a modified asset-smoothing method in the calculation of the UAAL contribution. Under this method, asset gains or losses for the most recently completed fiscal period are offset against prior period gains or losses and all remaining gains or losses are then smoothed over a five-year (10 six-month) period. Due to the recognition of current and deferred investment losses, the return on Actuarial Valuation Assets, at 4.5% net of expenses, was less than the assumed return of 6.25% for the fiscal year ended June 30, 2023. Additional detail on the asset smoothing method is included in Section 3.

#### **Member Information**

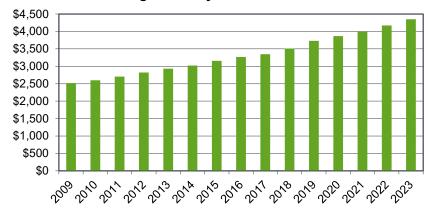
The number of active members included in the valuation increased from 5,249 in 2022 to 5,334 in 2023.

Retired member counts continue to increase steadily. For 2023, there were 5,932 retired members and beneficiaries with an average benefit of \$4,351 per month. This represents a 2.6% increase in count (up from 5,779 in 2022) and a 4.2% increase in the average monthly benefit (up from \$4,174 over the period). There are also 2,424 members who are no longer actively employed or retired but are entitled to a future retirement benefit or a refund of member contributions.

#### **Membership Count**



#### **Average Monthly Retirement Benefit**



#### **Analysis of Change in Member Population**

The following table summarizes the year-to-year change in member population.

	Active Members	Inactive Members	Service Retired Members	Disabled Retired Members	Beneficiaries in Pay	Total
As of June 30, 2022	5,249	2,224	4,608	493	678	13,252
New Members	587	59	3	-	53	702
Status Change:						
to Active	10	(10)	-	-	-	-
to Inactive	(276)	276	-	-	-	-
to Service Retirement	(186)	(79)	265	-	-	-
to Disabled Retirement	(6)	(2)	(24)	32	-	-
to Beneficiary	-	(1)	(25)	(1)	27	-
Refunds	(36)	(39)	-	-	-	(75)
Terminated non-vested	(1)	(1)	-	-	-	(2)
Deaths	(7)	(3)	(127)	(16)	(34)	(187)
As of June 30, 2023	5,334	2,424	4,700	508	724	13,690

#### **Summary Valuation Results**

Exhibit 2 presents a comparison of the key results from the June 30, 2023 and June 30, 2022 valuations. More detail on each of these elements can be found in the following sections and exhibits of this report.

## **Exhibit 2 Summary of Significant Valuation Results**

			June 30, 2023		June 30, 2022	Relative Change
1.	Total Membership					
	A. Active Members     B. Retired Members & Beneficiaries     C. Inactive Members     D. Total		5,334 5,932 2,424 13,690		5,249 5,779 2,224 13,252	1.6% 2.6% 9.0% 3.3 %
2	Pay Rate		.0,000		. 0,202	0.0 //
	A. Annual Total (\$thousands)     B. Monthly Average	\$	650,698 10,166	\$	613,703 9,743	6.0% 4.3%
3.	Average Monthly Benefit to Current Retirees and Beneficiaries					
	A. Service Retirement     B. Disability Retirement     C. Surviving Spouse and Dependents     D. Total Average	\$	4,597 4,433 2,700 4,351	\$	4,423 4,117 2,524 4,174	3.9% 7.7% 7.0% 4.2%
4	Actuarial Accrued Liability (\$thousands)		1,001		.,	1.270
7.	A. Active Members B. Retired Members C. Inactive Members D. Total	\$	2,412,207 4,264,848 358,586 7,035,641	\$ 	2,289,384 3,922,840 317,815 6,530,039	5.4% 8.7% 12.8% 7.7%
5	Assets	Ψ	7,000,041	Ψ	0,000,000	7.770
0.	A. Market Value of Fund (\$thousands) B. Return on Market Value C. Actuarial Value (\$thousands) D. Return on Actuarial Value	\$ \$	6,005,043 6.0% 6,215,283 4.5%	\$ \$	5,649,674 -6.1% 5,922,894 7.1%	6.3% 4.9%
6	Unfunded Actuarial Accrued Liability		4.5%		7.170	
0.	or Surplus Funding (\$thousands)	\$	820,358	\$	607,145	35.1%
7.	Statutory Employer Contribution Rate for all plans combined as a percent of total payroll					
	<ul><li>A. Gross Normal Cost</li><li>B. Member Contributions</li></ul>		24.16% (12.41)%		23.64% (12.27)%	2.2% 1.1%
	C. Employer Normal Cost D. UAAL Amortization		11.75% 14.89%		11.37% 16.04%	3.3% (7.2)%
	<ul><li>E. Calculated Employer Contribution Rate</li><li>F. Deferred Recognition of 2021 Assumptions</li></ul>		26.64% -		27.41% (1.22)%	(2.8)%
	G. Employer Rate		26.64%		26.19%	1.7%
8.	Funded Ratio (5C / 4D)		88.3%		90.7%	(2.6)%
9.	Results Based on Market Value (No Asset Smoothin A. Total Employer Rate B. Funded Ratio (5A / 4D)	ng)	For Informationa 29.48% 85.4%	ıl Pu	rposes Only 30.42% 86.5%	(3.1)% (1.4)%

## 2. Scope of the report

This report presents the actuarial valuation of the San Mateo County Employees' Retirement Association as of June 30, 2023. This valuation is made in accordance with SamCERA's annual valuation cycle. Section 31453 of the County Employees Retirement Law of 1937 (the CERL) requires an actuarial valuation to be performed at least every three years for the purposes of setting contribution rates.

In reading our cover letter, please pay particular attention to the guidelines employed in the preparation of this report. We also comment on the sources and reliability of both the data and the actuarial assumptions upon which our findings depend. Those comments are the basis for our certification that this report is complete and accurate to the best of our knowledge and belief.

In many respects, an actuarial valuation can be thought of as an inventory process as of the valuation date. On that date, the assets available for the payment of retirement benefits are appraised and compared with the accrued and future actuarial liabilities. The purpose of the valuation is to determine what future contributions by the members and employers are needed to pay all expected future benefits not funded by the current assets.

A summary of the findings resulting from this valuation is presented in the previous section. The following sections of the report provide the details of the actuarial valuation.

**Section 3** describes the assets and investment experience of SamCERA. The assets and investment income are presented in Exhibits 3-5. Exhibits 6-8 develop the Actuarial Value of Assets as of June 30, 2023.

**Section 4** describes the benefit obligations of SamCERA. Exhibits 9a and 9b show the Actuarial Balance Sheet. Additional analysis on the change in UAAL is also provided in this section.

**Sections 5 and 6** deal with the process for determining required contributions based on the relationship between the actuarial assets and the actuarial liabilities. Section 5 discusses the member contribution rates and Section 6 discusses the employer contributions needed to fund the benefits under the actuarial cost method in use.

Section 7 discloses supplemental information that may be included in SamCERA's ACFR.

**Section 8** discusses risks that could potentially affect future valuation results.

This report includes several appendices:

- Appendix A A summary of the actuarial procedures and assumptions used to estimate liabilities and contributions.
- Appendix B A summary of the current benefit structure, as determined by the provisions of governing law as of June 30, 2023.
- Appendix C Schedules of valuation data classified by various categories of members by plan.
- Appendix D Member contribution rates by plan.
- Appendix E A glossary of actuarial terms used in this report.

### 3. Assets

This section of the report deals with the determination of assets used for funding purposes. A historical summary of SamCERA's assets is presented below:

	All dollar amounts in millions								
		Actuari	ial Value						
Year	Market Value of Total Assets	Non Valuation Assets	Valuation Assets						
2004 2005 2006 2007 2008	\$ 1,435 1,599 1,790 2,132 2,011	\$ 31 0 0 0 0	\$ 1,453 1,616 1,769 1,977 2,219						
2009 2010 2011 2012 2013	1,591 1,816 2,318 2,360 2,728	0 0 0 0	1,910 2,179 2,405 2,480 2,619						
2014 2015 2016 2017 2018	3,292 3,454 3,541 4,039 4,374	30 33 36 40 44	2,993 3,344 3,625 3,977 4,352						
2019 2020 2021 2022 2023	4,723 4,781 5,982 5,650 6,005	48 51 55 60 63	4,686 4,998 5,489 5,923 6,215						

On June 30, 2023, the total market value of the fund was about \$6.01 billion. The actuarial value of the fund was determined to be \$6.28 billion, including the non-valuation reserves.

### **Financial Exhibits**

Exhibit 3 presents a Statement of Plan Net Assets and Exhibit 4 presents a Statement of Changes in Plan Net Assets.

Exhibit 5 describes the allocation of SamCERA's assets by the various reserve values determined for accounting purposes.

Exhibits 3-5 are taken from data furnished to us by SamCERA for its annual financial report. We have accepted these tables for use in this report without audit, but we have reviewed them for reasonableness and consistency with previous reports.

#### **Actuarial Value of Assets**

The actuarial value of assets is equal to the market value of assets with a five-year (10 six-month periods) recognition of the difference between expected and actual investment returns. Effective with the June 30, 2018 valuation, all deferred gains and losses were combined into a single amount to be recognized over a five-year (10 six-month) period. Beginning with the six-month period immediately following the June 30, 2018 valuation, offsetting of current period gains or losses against prior period gains or losses occur, as follows: to the extent there is a loss for the period, it shall be used to offset any unrecognized gains from prior periods in the order of oldest to most recent. Any remaining loss for the period is recognized over a five-year (10 six-month) period. Similarly, any gain for the period shall be offset against unrecognized losses from prior periods.

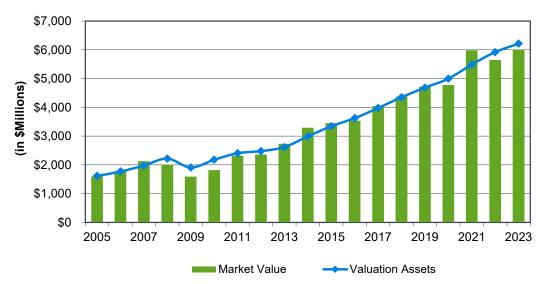
Beginning with the June 30, 2014 valuation, assets used to calculate the preliminary UAAL contribution rates exclude the value of the CSCA. The CSCA is used to adjust the County's Statutory Contribution Rate. Beginning with the June 30, 2016 valuation, assets used to calculate the preliminary UAAL contribution rates also exclude the value of the DSCA. The DSCA is used to adjust the SMCM&VCD's Statutory Contribution Rate. To adjust the Statutory Contribution Rate, we track the CSCA and DSCA assets separately.

The development of the June 30, 2023 actuarial value of assets is shown in Exhibits 6 and 7. Exhibits 6a and 7a show the development of the total actuarial value of assets. Exhibits 6b and 7b show the development excluding the Supplemental Contribution Account (SCA) assets. Exhibits 6c and 7c show the development of the actuarial value of assets for the CSCA. Exhibits 6d and 7d show the development of the actuarial value of assets for the DSCA.

The County and the SMCM&VCD each made their contributions for the year ended June 30, 2023 based on the SCR. Since the SCR reflected offsets due to the respective SCAs, each employer effectively used up an amount of the SCA equivalent to the offset. Therefore, we have shown this in the "Credits Used" column in Exhibits 6c and 6d.

The following graph shows a historical comparison of the total actuarial and market assets used for valuation purposes.





#### Valuation Assets

Valuation Assets are the actuarial value of the fund, less the value of any reserves which have been set aside for current liabilities and special benefits (if any) that are to be funded outside of the actuarially determined contribution rates.

Valuation Assets are allocated by classification (General, Safety, and Probation) as shown in Exhibit 8. This allocation is necessary because the UAAL contribution rates are determined separately by employer and class.

### **Allocation of Assets**

In the calculation of the Statutory Contribution Rate, the Normal Cost Rate is determined separately for each plan. The UAAL portion of the rate is allocated proportionately to each classification. To determine the UAAL amount by classification, the actual UAAL is allocated in proportion to the expected UAAL after reflecting expected contributions from the prior year to pay down the UAAL. The allocation is done without consideration of the SCAs. Valuation Assets are equal to the AAL minus the UAAL for each classification. These calculations are shown in Exhibit 8.

CSCA valuation assets are allocated to each County member classification (General, Safety or Probation) in proportion to the actual UAAL excluding SCAs. These assets directly reduce the UAAL of each classification.

DSCA assets are allocated entirely to the SMCM&VCD General member classification.

Exhibit 3
Statement of Plan Net Assets as of June 30, 2023 and 2022

	2023	2022
ASSETS		
Cash and short-term investments:		
Cash and cash equivalents	\$ 210,121,124	\$ 237,495,568
Cash management overlay	19,989,496	73,569,285
Securities lending cash collateral	3,737,378	4,120,692
Total cash and short-term investments	233,847,998	315,185,545
Receivables:		
Contributions	3,105,913	14,690,743
Due from broker for investments sold	131,151,929	60,199,734
Investment income	12,789,009	8,049,214
Securities lending income	35,260	16,435
Other	3,019,886	131,903
Total receivables	150,101,997	83,088,029
Prepaid Expenses	214,663	352,332
Investments at fair value:		
Public equity	2,435,036,194	2,065,993,116
Fixed income	1,358,012,682	1,365,666,389
Alternatives	742,188,710	807,907,593
Inflation hedge	1,022,566,835	1,105,638,764
Liquidity	270,101,574	
Total investments at fair value	5,827,905,995	5,345,205,862
Capital assets	11,924,532	11,788,264
Less: accumulated depreciation	(6,451,799)	(5,098,591)
Capital assets, net of accumulated depreciation	5,472,733	6,689,673
Total assets	6,217,543,386	5,750,521,441
LIABILITIES		
Investment management fees payable	2,037,842	2,125,820
Due to broker for investments purchased	202,435,351	90,090,580
Securities lending collateral due to borrowers	3,737,379	4,120,692
Lease liability	2,443,817	2,890,295
Other	1,846,497	1,619,608
Total liabilities	212,500,886	100,846,995
NET POSITION RESTRICTED FOR PENSIONS	\$ 6,005,042,500	\$ 5,649,674,446

Exhibit 4
Statement of Changes in Plan Net Assets for the Fiscal Years Ended 2023 and 2022

	2023		2022
ADDITIONS			
Contributions:			
Employer	\$ 238,938,203	\$	234,746,179
Employer supplementary	10,000,000		15,200,000
Member	77,666,128		73,967,823
Total contributions	326,604,331		323,914,002
Investment income:			
Interest and dividends	133,336,480		111,425,057
Net increase (decrease) in the fair value of investments	253,087,820		(427,447,926)
Total investment income	386,424,300		(316,022,869)
Less: investment expenses	(45,366,003)		(50,676,576)
Net investment income	341,058,297		(366,699,445)
Securities lending activities:	_	,	_
Securities lending income	267,081		32,658
Borrower rebates	10,568		61,277
Management fees	(90,114)		(20,645)
Net income from securities lending activities	 187,535		73,290
Total additions	667,850,163		(42,712,153)
DEDUCTIONS			
Benefits:			
Service retirement benefits	266,316,948		246,250,375
Disability retirement benefits	30,196,733		28,674,627
Survivor, death, and other benefits	2,420,489		1,577,229
Total benefits	298,934,170		276,502,231
Member refunds	3,895,438		4,407,296
Administrative expenses	7,835,470		7,196,431
Information technology expenses	1,817,031		1,593,393
Total deductions	312,482,109		289,699,351
Net increase (decrease) in net position	355,368,054		(332,411,504)
NET POSITION RESTRICTED FOR PENSIONS			
Beginning of year	5,649,674,446		5,982,085,950
End of year	\$ 6,005,042,500	\$	5,649,674,446
Estimated Return, Net of Investment Expenses	6.0%		-6.1%

# Exhibit 5 Allocation of Assets by Accounting Reserve Amounts as of June 30, 2023 and 2022

	2023	2022
Valuation Reserves		
1. Member Reserve	\$ 973,281,721	\$ 937,791,042
2. Employer Advance Reserve	1,729,066,194	1,523,311,607
3. Retiree Reserves	1,564,182,230	1,496,585,584
4. Cost of Living Adjustment Reserve	1,827,829,723	1,737,309,767
5. County Supplemental Contributions Account Reserve	213,031,763	215,660,082
6. District Supplemental Contributions Account Reserve	71,587	595,202
7. Undistributed Earnings / (Losses) Reserve	 (103,839,146)	(2,859,547)
Total Valuation Reserves	6,203,624,072	5,908,393,737
Non-Valuation Reserves		
1. Contingency Reserve	62,780,628	59,827,218
Total Non-Valuation Reserves	62,780,628	59,827,218
Market Stabilization Account	(261,362,200)	(318,546,509)
Total Reserves (Market Value of Assets)	\$ 6,005,042,500	\$ 5,649,674,446

Note: These amounts were determined by SamCERA for accounting purposes.

Exhibit 6a
Five-Year Smoothing of Gains and Losses on Market Value (Total Assets) – History

			History of Unex	cpected Asset Gai	ins and Los	ses		
Six-Month Period Ended	Market Value at Beginning of Period	Contributions	Benefit Payments	Market Value at End of Period	Assumed Rate of Return	Expected Return	Actual Return	Unexpected Gain / (Loss)
06/30/2023	\$ 5,707,845,869	\$ 172,696,149	\$ 154,103,188	\$ 6,005,042,500	3.125%	\$ 180,247,504	\$ 278,603,670	\$ 98,356,166
12/31/2022	5,649,674,446	153,908,182	148,726,420	5,707,845,869	3.125%	178,045,995	52,989,661	(125,056,334)
06/30/2022	6,176,561,202	161,928,657	144,035,148	5,649,674,446	3.125%	194,281,326	(544,780,265)	(739,061,591)
12/31/2021	5,982,085,950	161,985,345	136,874,380	6,176,561,202	3.125%	188,713,042	169,364,287	(19,348,755)
06/30/2021	5,604,786,769	92,110,542	133,842,465	5,982,085,950	3.250%	181,730,879	419,031,104	237,300,225
12/31/2020	4,780,502,313	246,858,414	128,309,469	5,604,786,769	3.250%	157,292,070	705,735,511	548,443,441
06/30/2020	4,950,278,117	141,276,359	126,289,581	4,780,502,313	3.250%	162,104,000	(184,762,582)	(346,866,582)
12/31/2019	4,723,109,935	127,937,403	119,531,561	4,950,278,117	3.250%	154,870,851	218,762,340	63,891,489
06/30/2019	4,251,567,361	102,883,854	116,505,474	4,723,109,935	3.375%	142,617,961	485,164,194	342,546,233
12/31/2018	4,373,961,514	210,310,184	110,679,649	4,251,567,361	3.375%	149,503,844	(222,024,688)	(371,528,532)

Exhibit 6b
Five-Year Smoothing of Gains and Losses on Market Value (excluding SCAs) – History

	History of Unexpected Asset Gains and Losses								
Six-Month Period Ended	Market Value at Beginning of Period	Contributions and SCA Credits	Benefit Payments	Market Value at End of Period	Assumed Rate of Return	Expected Return	Actual Return	Unexpected Gain / (Loss)	
06/30/2023	\$ 5,489,572,140	\$ 188,873,480	\$ 154,103,188	\$ 5,791,939,150	3.125%	\$ 173,139,991	\$ 267,596,718	\$ 94,456,727	
12/31/2022	5,433,419,162	153,908,182	148,726,420	5,489,572,140	3.125%	171,288,017	50,971,216	(120,316,801)	
06/30/2022	5,921,524,752	178,303,937	144,035,148	5,433,419,162	3.125%	186,297,896	(522,374,379)	(708,672,275)	
12/31/2021	5,744,004,263	151,985,345	136,874,380	5,921,524,752	3.125%	181,142,781	162,409,524	(18,733,257)	
06/30/2021	5,403,232,963	73,393,630	133,842,465	5,744,004,263	3.250%	174,078,088	401,220,135	227,142,047	
12/31/2020	4,604,453,572	246,858,414	128,309,469	5,403,232,963	3.250%	151,570,486	680,230,446	528,659,960	
06/30/2020	4,750,877,586	157,364,783	126,289,581	4,604,453,572	3.250%	155,623,482	(177,499,216)	(333,122,698)	
12/31/2019	4,532,439,649	127,937,403	119,531,561	4,750,877,586	3.250%	148,674,067	210,032,095	61,358,028	
06/30/2019	4,114,925,851	64,852,245	116,505,474	4,532,439,649	3.375%	137,584,435	469,167,027	331,582,592	
12/31/2018	4,230,263,350	210,310,184	110,679,649	4,114,925,851	3.375%	144,654,031	(214,968,034)	(359,622,065)	

Exhibit 6c
Five-Year Smoothing of Gains and Losses on Market Value of CSCA – History

	History of Unexpected Asset Gains and Losses												
Six-Month Period Ended		ccount Value at Beginning of Period	C	ontributions		Credits Used	A	ccount Value at End of Period	Assumed Rate of Return		Expected Return	Actual Return	Jnexpected Sain / (Loss)
06/30/2023	\$	217,665,841	\$	10,000,000	\$	25,626,953	\$	213,031,763	3.125%	\$	7,088,516	\$ 10,992,875	\$ 3,904,359
12/31/2022		215,660,082		-		-		217,665,841	3.125%		6,739,378	2,005,759	(4,733,619)
06/30/2022		253,879,479		5,200,000		20,982,395		215,660,082	3.125%		7,947,275	(22,437,002)	(30,384,277)
12/31/2021		236,971,881		10,000,000		-		253,879,479	3.125%		7,535,580	6,907,598	(627,982)
06/30/2021		199,979,234		39,700,000		20,449,473		236,971,881	3.250%		7,601,617	17,742,120	10,140,503
12/31/2020		174,529,290		-		-		199,979,234	3.250%		5,672,202	25,449,944	19,777,742
06/30/2020		197,473,708		-		15,629,442		174,529,290	3.250%		6,417,896	(7,314,976)	(13,732,872)
12/31/2019		188,806,043		-		-		197,473,708	3.250%		6,136,196	8,667,665	2,531,469
06/30/2019		134,646,329		50,668,357		12,444,200		188,806,043	3.375%		4,966,189	15,935,557	10,969,368
12/31/2018		141,751,083		-		-		134,646,329	3.375%		4,784,099	(7,104,754)	(11,888,853)

Exhibit 6d
Five-Year Smoothing of Gains and Losses on Market Value of DSCA – History

	History of Unexpected Asset Gains and Losses											
Six-Month Period Ended	Account Value at Beginning of Period	Contributions		Credits Used		ccount Value at End of Period	Assumed Rate of Return	E	Expected Return		Actual Return	nexpected nin / (Loss)
06/30/2023	\$ 607,888	\$ -	\$	550,378	\$	71,587	3.125%	\$	18,997	\$	14,077	\$ (4,920)
12/31/2022	595,202	-		-		607,888	3.125%		18,600		12,686	(5,914)
06/30/2022	1,156,971	-		592,885		595,202	3.125%		36,155		31,116	(5,039)
12/31/2021	1,109,806	-		-		1,156,971	3.125%		34,681		47,165	12,484
06/30/2021	1,574,572	-		533,615		1,109,806	3.250%		51,174		68,849	17,675
12/31/2020	1,519,451	-		-		1,574,572	3.250%		49,382		55,121	5,739
06/30/2020	1,926,823	-		458,982		1,519,451	3.250%		62,622		51,610	(11,012)
12/31/2019	1,864,243	-		-		1,926,823	3.250%		60,588		62,580	1,992
06/30/2019	1,995,181	-		192,548		1,864,243	3.375%		67,337		61,610	(5,727)
12/31/2018	1,947,081	-		-		1,995,181	3.375%		65,714		48,100	(17,614)

Exhibit 7a
Five-Year Smoothing – Development of Valuation Assets (Total Assets)

	Development of Market Stabilization Reserve								
Six-Month Period Ended	Investment Gain / (Loss)	Adjusted Investment Gain / (Loss)		Percent Excluded		Adjusted Gain / (Loss) Excluded			
06/30/2023	\$ 98,356,166	\$ -	х	90%	=	\$ -			
12/31/2022	(125,056,334)	(125,050,420)	Х	80%	=	(100,040,336)			
06/30/2022	(739,061,591)	(247,116,872)	Х	70%	=	(172,981,810)			
12/31/2021	(19,348,755)	3,145	Х	60%	=	1,887			
06/30/2021	237,300,225	0	Х	50%	=	0			
12/31/2020	548,443,441	0	Х	40%	=	0			
06/30/2020	(346,866,582)	0	Х	30%	=	0			
12/31/2019	63,891,489	0	Х	20%	=	0			
06/30/2019	342,546,233	0	Х	10%	=	0			
12/31/2018	(371,528,532)	0	Х	0%	=	0			
		Total G	ain /	(Loss) Exclude	d =	\$ (273,020,259)			

	Development of Valua	ation Assets	
1.	Market Value of Assets as of June 30, 2023		\$ 6,005,042,500
2.	Preliminary Market Stabilization Reserve		(273,020,259)
3.	Preliminary Actuarial Value of Assets (1) - (2)		6,278,062,759
4.	Corridor Around Market Value a) Minimum = 80% of Market b) Maximum = 120% of Market c) Corridor Adjustment	\$ 4,804,034,000 7,206,051,000	0
5.	Market Stabilization Reserve	(273,020,259)	
6.	Gross Actuarial Valuation of Assets (3) - (4c)		\$ 6,278,062,759
7.	Non-Valuation Reserves a) Contingency Reserve b) Other Specified Reserves c) Total	62,780,628	62,780,628
8.	Valuation Assets (6) - (7c)		\$ 6,215,282,131

Exhibit 7b
Five-Year Smoothing – Development of Valuation Assets (excluding SCAs)

Development of Market Stabilization Reserve								
Six-Month Period Ended	Investment Gain / (Loss)	Adjusted Investment Gain / (Loss)	Percent Excluded	_	Adjusted Gain / (Loss) Excluded			
06/30/2023	\$ 94,456,727	\$ -	х	90%	=	\$ -		
12/31/2022	(120,316,801)	(120,316,801)	Х	80%	=	(96,253,441)		
06/30/2022	(708,672,275)	(235,869,656)	Х	70%	=	(165,108,759)		
12/31/2021	(18,733,257)	0	Х	60%	=	0		
06/30/2021	227,142,047	0	Х	50%	=	0		
12/31/2020	528,659,960	0	Х	40%	=	0		
06/30/2020	(333,122,698)	0	Х	30%	=	0		
12/31/2019	61,358,028	0	Х	20%	=	0		
06/30/2019	331,582,592	0	Х	10%	=	0		
12/31/2018	(359,622,065)	0	Х	0%	=	0		
		Total G	ain /	(Loss) Excluded	=	\$ (261,362,200)		

	Development of Valua	ation Assets	
1.	Market Value of Assets as of June 30, 2023		\$ 5,791,939,150
2.	Preliminary Market Stabilization Reserve		(261,362,200)
3.	Preliminary Actuarial Value of Assets (1) - (2)		6,053,301,350
4.	Corridor Around Market Value a) Minimum = 80% of Market b) Maximum = 120% of Market c) Corridor Adjustment	\$ 4,633,551,320 6,950,326,980	0
5.	Market Stabilization Reserve	(261,362,200)	
6.	Gross Actuarial Valuation of Assets (3) - (4c)		\$ 6,053,301,350
7.	Non-Valuation Reserves a) Contingency Reserve b) Other Specified Reserves c) Total	62,780,628	62,780,628
8.	Valuation Assets (6) - (7c)		\$ 5,990,520,722

Exhibit 7c
Five-Year Smoothing – Development of CSCA Assets

	Development of Market Stabilization Reserve											
Six-Month Period Ended		nvestment nin / (Loss) <sup>1</sup>	Adjusted Investment Gain / (Loss)			Percent Excluded		(	Adjusted Gain / (Loss) Excluded			
06/30/2023	\$	3,904,359	\$	-	x	90%	=	\$	-			
12/31/2022		(4,733,619)		(4,733,619)	х	80%	=		(3,786,895)			
06/30/2022		(30,384,277)	(1	11,247,216)	х	70%	=		(7,873,051)			
12/31/2021		(627,982)		0	Х	60%	=		0			
06/30/2021		10,140,503		0	х	50%	=		0			
12/31/2020		19,777,742		0	х	40%	=		0			
06/30/2020		(13,732,872)		0	х	30%	=		0			
12/31/2019		2,531,469		0	х	20%	=		0			
06/30/2019		10,969,368		0	х	10%	=		0			
12/31/2018		(11,888,853)		0	х	0%	=		0			
				Total G	ain .	/ (Loss) Excluded	=	\$	(11,659,946)			

<sup>1.</sup> Historical amounts were recalculated as of June 30, 2019 for consistency with Addenda #1 of the MOU regarding retirement system funding.

	Development of Valuation	n As	ssets	
1.	Market Value of Assets as of June 30, 2023			\$ 213,031,763
2.	Preliminary Market Stabilization Reserve			 (11,659,946)
3.	Preliminary Actuarial Value of Assets (1) - (2)			224,691,709
4.	Corridor Around Market Value a) Minimum = 80% of Market b) Maximum = 120% of Market c) Corridor Adjustment	\$	170,425,410 255,638,116	0
5.	Market Stabilization Reserve		(11,659,946)	
6.	Gross Actuarial Valuation of Assets (3) - (4c)			\$ 224,691,709
7.	Non-Valuation Reserves a) Contingency Reserve b) Other Specified Reserves c) Total		0	0
8.	Valuation Assets (6) - (7c)			\$ 224,691,709

Exhibit 7d
Five-Year Smoothing – Development of DSCA Assets

Development of Market Stabilization Reserve											
Six-Month Period Ended		estment / (Loss) <sup>1</sup>	Adjusted Investment Gain / (Loss)		nt Percent			Ga	Adjusted nin / (Loss) Excluded		
06/30/2023	\$	(4,920)	\$	0	Χ	90%	=	\$	0		
12/31/2022		(5,914)		0	Х	80%	=		0		
06/30/2022		(5,039)		0	Χ	70%	=		0		
12/31/2021		12,484		3,145	Х	60%	=		1,887		
06/30/2021		17,675		0	Χ	50%	=		0		
12/31/2020		5,739		0	Х	40%	=		0		
06/30/2020		(11,012)		0	Х	30%	=		0		
12/31/2019		1,992		0	Χ	20%	=		0		
06/30/2019		(5,727)		0	Х	10%	=		0		
12/31/2018		(17,614)		0	Х	0%	=		0		
				Total C	3ain /	(Loss) Exclude	d =	\$	1,887		

<sup>1</sup> Historical amounts were recalculated as of June 30, 2019 for consistency with the District's MOU regarding retirement system funding.

Development of Valua	tion Asse	ts	
Market Value of Assets as of June 30, 2023			\$ 71,587
2. Preliminary Market Stabilization Reserve			 1,887
3. Preliminary Actuarial Value of Assets (1) - (2)			69,700
<ul><li>4. Corridor Around Market Value</li><li>a) Minimum = 80% of Market</li><li>b) Maximum = 120% of Market</li><li>c) Corridor Adjustment</li></ul>	\$	57,270 85,904	0
5. Market Stabilization Reserve		1,887	
6. Gross Actuarial Valuation of Assets (3) - (4c)			\$ 69,700
<ul><li>7. Non-Valuation Reserves</li><li>a) Contingency Reserve</li><li>b) Other Specified Reserves</li><li>c) Total</li></ul>		0 0	0
8. Valuation Assets (6) - (7c)			\$ 69,700

# Exhibit 8 Allocation of Valuation Assets

(Dollars in thousands)

## **ALLOCATION OF VALUATION ASSETS**

For the Year Ended June 30, 2023 (Dollars in thousands)

		General		Safety		Probation		Total
. 5: 7	•	500.005	•	170 100	•	70.007	•	007.004
Prior Year UAAL	\$	,	\$	170,429	\$	70,637	\$	837,901
Expected UAAL Contribution for Preceding Year		(131,543)		(42,200)		(12,302)		(186,045)
3. Expected Interest at 6.25%		33,254		9,353		4,036		46,643
4 Expected UAAL Based on Prior Year Assumptions		498,546		137,582		62,371		698,499
5. Percentage of Total Expected UAAL		71.37%		19.70%		8.93%		100.00%
6. Actual UAAL Based on Prior Year Assumptions								869,667
7. Actual AAL Based on Prior Year Assumptions	\$	5,049,920	\$	1,327,912	\$	482,356	\$	6,860,188
8. Allocated UAAL Based on Prior Year Assumptions		620,682		171,324		77,661		869,667
9. Valuation Assets (excluding SCA assets)	\$	4,429,238	\$	1,156,588	\$	404,695	\$	5,990,521
10. Actual UAAL excluding SCA Valuation Assets	\$	755,563	\$	202,525	\$	87,032	\$	1,045,120
11. Allocation of UAAL		72.29%		19.38%		8.33%		100.00%
12. Valuation Assets (CSCA)	\$	162,430	\$	43,545	\$	18,717	\$	224,692
13. Valuation Assets (DSCA)	\$	70	\$	-	\$	-	\$	70
14. Valuation Assets (Total)	\$	4,591,738	\$	1,200,133	\$	423,412	\$	6,215,283

### 4. Actuarial Liabilities

This section of the report focuses on the commitments of SamCERA for retirement benefits, which are referred to as its actuarial liabilities. All liabilities reflect the benefits effective through June 30, 2023.

In an active retirement system, the combined current and future actuarial liabilities will almost always exceed the actuarial assets. This difference has to be provided by future contributions. An actuarial valuation method sets out a schedule of future contributions that will deal with this difference in an orderly fashion. The determination of the level of future contributions needed is discussed in the next section.

The actuarial assumptions used to determine the liabilities are based on the results of the 2023 Investigation of Experience study for the period ended April 30, 2023. At its meeting on July 25, 2023, the Board adopted new assumptions as recommended by Milliman. These assumptions are shown in Appendix A. The assumptions will next be reviewed in detail as part of the 2026 Investigation of Experience study.

#### **Actuarial Balance Sheet**

The Actuarial Balance Sheet compares the Present Value of Future Benefits for retired, inactive and active members to the resources available to meet them. The amount of any difference is called the Unfunded Actuarial Accrued Liability (UAAL). For the purpose of the Actuarial Balance Sheet, SamCERA's resources are equal to the sum of:

- (a) Assets currently available to pay benefits and considered for funding purposes, the Valuation Assets,
- (b) The present value of future contributions expected to be made by current active members, and
- (c) The present value of future contributions expected to be made by the employer.

Exhibit 9a contains an analysis of the Present Value of Future Benefits compared to total Valuation Assets.

Exhibit 9b contains an analysis using the Valuation Assets excluding the SCA assets (sum of the CSCA and DSCA). These analyses are displayed by class of membership and by type of benefit.

### **Unfunded Actuarial Accrued Liability**

The Actuarial Accrued Liability (AAL) represents the value of benefits earned as of the valuation date, and is one component of the Present Value of Future Benefits. The difference between the AAL and Valuation Assets is referred to as the Unfunded Actuarial Accrued Liability (UAAL).

Exhibit 9c provides an analysis of the change in the UAAL since the prior valuation date.

## Exhibit 9a Actuarial Balance Sheet (Total Assets) June 30, 2023

(Dollars in thousands)

		Resources				
	General Safety Probation		robation	Total		
Valuation Assets (Actuarial)	\$	4,591,738	\$ 1,200,133	\$	423,412	\$ 6,215,283
Present Value of Future Member Contributions		511,452	105,517		23,360	640,329
Present Value of Future Employer Contributions to Fund: a) Normal Cost b) Unfunded Actuarial Accrued Liability		445,249 593,063	101,390 158,980		24,593 68,315	571,232 820,358
Total Resources	\$	6,141,502	\$ 1,566,020	\$	539,680	\$ 8,247,202

	Liabilities	
	General Safety Proba	ation Total
Present Value of Future Benefits		
1. Present Retired Members	\$ 2,950,871 \$ 983,182 \$ 33	30,795 \$ 4,264,848
2. Current Inactive Members	316,383 23,740	18,463 358,586
3. Current Active Members		
- Service Retirement	2,621,589 493,954 17	75,974 3,291,517
- Termination Benefits	134,956 16,722	3,088 154,766
- Death Benefits	27,857 4,056	860 32,773
- Disability Benefits	89,846 44,366	10,500 144,712
- Total Active	2,874,248 559,098 19	90,422 3,623,768
Total Actuarial Liabilities	\$ 6,141,502 \$ 1,566,020 \$ 53	39,680 \$ 8,247,202

# Exhibit 9b Actuarial Balance Sheet (excluding SCAs) June 30, 2023

(Dollars in thousands)

Resources											
	General			Safety	Probation			Total			
Valuation Assets (Actuarial)	\$	4,429,238	\$	1,156,588	\$	404,695	\$	5,990,521			
Present Value of Future Member Contributions		511,452		105,517		23,360		640,329			
Present Value of Future Employer Contributions to Fund: a) Normal Cost b) Unfunded Actuarial Accrued Liability		445,249 755,563		101,390 202,525		24,593 87,032		571,232 1,045,120			
Total Resources	\$	6,141,502	\$	1,566,020	\$	539,680	\$	8,247,202			

		Liabilities				
	General		Safety	afety Probation		Total
Present Value of Future Benefits						
1. Present Retired Members	\$	2,950,871	\$ 983,182	\$	330,795	\$ 4,264,848
2. Current Inactive Members		316,383	23,740		18,463	358,586
3. Current Active Members						
- Service Retirement		2,621,589	493,954		175,974	3,291,517
- Termination Benefits		134,956	16,722		3,088	154,766
- Death Benefits		27,857	4,056		860	32,773
- Disability Benefits		89,846	44,366		10,500	144,712
- Total Active		2,874,248	559,098		190,422	3,623,768
Total Actuarial Liabilities	\$	6,141,502	\$ 1,566,020	\$	539,680	\$ 8,247,202

# Exhibit 9c Analysis of Change in the Unfunded Actuarial Accrued Liability June 30, 2023

(Dollars in thousands)

			As a Percent of June 30, 2023 Actuarial
		Amount	Accrued Liability
Unfunded Actuarial Accrued Liability - June 30, 2022		\$ 607,145	8.6%
Increase in UAAL due to new assumptions		161,882	2.3%
Interest Accrued		37,947	0.5%
Benefits Accrued (Normal Cost)		163,758	2.3%
Contributions			
Employers	\$ (246,292)		-3.5%
Members	(80,056)		-1.1%
CSCA and DSCA Contributions	(10,000)		-0.1%
Total		(336,348)	-4.8%
Expected Unfunded Actuarial Accrued Liability - June 30, 2023		\$ 634,383	9.0%
Sources of Change:			0.0%
(Gain) / Loss due to Investment Income		101,991	1.4%
Liability (Gains) and Losses			
Salary Increases Greater than Expected	\$ 31,440		0.4%
Active Member Experience (non salary)	17,732		0.3%
CPI Greater than Expected	33,389		0.5%
Mortality Experience	(890)		0.0%
All Other Experience	2,312		0.0%
Total		 83,983	1.2%
Total Changes		\$ 185,975	2.6%
Unfunded Actuarial Accrued Liability - June 30, 2023		\$ 820,358	11.7%

### 5. Member Contributions

For SamCERA members in Plans 1-6, contributions are of three types: Basic contributions, Cost Sharing contributions, and COLA Cost Sharing contributions.

SamCERA members in Plan 7 pay contributions equal to one-half of the total Normal Cost rate for all members.

There are no member contributions under General Plan 3.

#### **Basic Member Contributions**

Basic contribution member rates for General members in Plans 1, 2 and 4 are defined in Section 31621.9 of the County Employees Retirement Law (CERL). General Plan 5 member rates are defined in Section 31621, and Probation and Safety member rates in Plans 1-6 are defined in Section 31639.25.

Basic member contributions are determined using the Entry Age Normal Cost Method and the following actuarial assumptions:

- 1. Expected rate of return on assets
- 2. Individual salary increase rate (wage growth + merit)
- 3. Mortality for members based on service retirement
- 4. No COLAs are assumed

The basic member contribution rates for Plans 1-6 were recalculated as of the June 30, 2023 valuation to reflect assumptions adopted by the Board of Retirement on July 25, 2023. The rates are shown in Appendix D.

## **Cost of Living Member Contributions**

Members in Plans 1-6 (except Plan 3 and SMCM&VCD members) may share in the cost of the Cost of Living Adjustment (COLA) benefit by making additional contributions. The COLA level is described in detail in the Member Contributions section of Appendix B.

COLA member rates for Plans 1-6 are determined by calculating and applying a load factor to the basic member rates. New COLA load factors were calculated in the 2023 valuation to reflect the new assumptions as a result of the 2023 Investigation of Experience study. COLA load factors are determined for each class and plan of member separately, as shown in the following table:

Plan	COLA Share	COLA Load
General 1	50%	35.00%
General 2	50%	41.85%
General 4	50%	27.66%
General 5	50%	27.08%
Safety 1	50%	47.93%
Safety 2	50%	61.09%
Safety 4	50%	42.98%
Safety 5	50%	39.25%
Safety 6	50%	32.47%
Probation 1	50%	53.21%
Probation 2	50%	61.98%
Probation 4	50%	41.73%
Probation 5	50%	36.28%
Probation 6	50%	30.44%

As an example, a member who enters General Plan 5 at age 35 has a basic member contribution rate of 7.88% (Exhibit D-1). The General Plan 5 COLA load is 27.08% for a member COLA contribution of 2.13% (7.88% x 27.08%) of pay. The basic plus COLA member contribution rate is 10.01% (7.88% + 2.13%).

The COLA load for each plan is determined as follows: the present value of future normal costs with and without COLA provisions is calculated. The difference is multiplied by the COLA share percentage, and then divided by the present value of future basic only member contributions.

## **Cost Sharing Contributions**

All Plan 1, 2, and 4 employees (except SMCM&VCD) and Plan 5 Safety and Probation employees make additional cost-sharing contributions as shown in Appendix B. Plan 5 General employees; Plan 6 and 7 employees do not participate in cost-sharing. For valuation purposes, cost-sharing contributions are assumed to be permanent. The cost-sharing contributions are fixed and not impacted by changes in assumptions.

### **Member Contribution Rates (Plan 7)**

Contributions for Plan 7 are defined in Section 7522.30 of the Government Code.

All employees of the same class who are members of Plan 7 shall contribute the same percentage of payroll. Such percentage will be 50% of the total Normal Cost rate for that class. The rates are recalculated annually.

## 6. Employer Contributions

Employer contribution rates are determined using the Entry Age Normal Cost Method. The portion of the actuarial present value of retirement benefits allocated to a valuation year by the Actuarial Cost Method is called the Normal Cost. These amounts are usually expressed as a percentage of payroll and called the Normal Cost Contribution Rate. Exhibit 11 shows the Normal Cost Rates by type of benefit and for each plan based on this valuation.

It should be noted that when we use the term "Gross Normal Cost rate," we are referring to the value of benefits earned by active members allocated to the valuation year. The Employer Normal Cost rate is the portion of the annual benefit that the employer is responsible for. This is simply the Gross Normal Cost rate less the contributions expected to be made by the members.

### **Statutory Contribution Rate**

A summary of the total Statutory Contribution Rate for each classification, along with a comparison to the prior year's rates, can be found in Exhibit 10, with additional detail for each plan in Exhibits 10a through 10d. These results are expressed as a percentage of payroll. Note that SamCERA's UAAL is determined separately for each class. Thus, the employers fund the UAAL evenly as a percentage of pay over salaries for all members within a class

The current UAAL amortization method uses a 15-year closed period layered approach, which is consistent with guidelines published by the California Actuarial Advisory Panel (CAAP) and the Conference of Consulting Actuaries (CCA). Effective with the June 30, 2023 valuation the Board elected to combine all outstanding layers into a single layer and reamortize the newly established layer over a 15-year period (fresh-start method) beginning July 1, 2024. New layers will be established in future years to amortize newly emerging gains and losses over their own 15-year closed period. In addition, for each member class the UAAL rate will not be less than the UAAL contribution rate in effect for that member class for the fiscal year beginning July 1, 2023 before reflecting any Supplemental Contribution Accounts. The minimum rate would need to be reviewed if SamCERA reaches a 100% Funded Ratio in the future.

The SCA (CSCA for the County and DSCA for the SMCM&VCD) UAAL offset amounts are calculated using a similar layered approach to the UAAL amortization described above, except that these will not be subject to fresh-start as of June 30, 2023. The SMCM&VCD last contributed funds to the DSCA in the Fiscal Year Ended June 30, 2017. Projected amortization payments from the DSCA effective July 1, 2024 are small. Therefore, the entire balance remaining in the DSCA will be amortized each year until it is fully credited to the SMCM&VCD.

Exhibits 12a through 12c show detailed information on how the UAAL contribution rate is calculated using the layered method. The UAAL contribution rates are calculated prior to reflecting the SCAs.

Exhibits 12d through 12f show detailed information on how the CSCA offsets are calculated using the same layered approach as used for UAAL amortizations, and Exhibit 12g shows similar information on the DSCA offsets.

# Exhibit 10 Employer Statutory Contribution Rates – All Plans For the 2024-2025 Fiscal Year

### **All Plans**

			Employer Rates								
	Gross Normal Cost	Member Contributions	Basic Normal Cost	COLA Normal Cost	Total Normal Cost	UAAL Contribution Rate (1)(2)	Total Contribution Rate	Prior Year Total Contribution Rate			
General											
County	21.83%	(11.42)%	8.11%	2.30%	10.41%	12.07%	22.48%	22.09%			
Courts	21.97%	(11.48)%	8.17%	2.32%	10.49%	15.86%	26.35%	26.02%			
Total	21.85%	(11.42)%	8.11%	2.32%	10.43%	12.26%	22.69%	22.31%			
SMCM&VCD (3)	21.35%	(9.08)%	9.03%	3.24%	12.27%	15.76%	28.03%	25.06%			
Safety	37.57%	(18.34)%	14.87%	4.36%	19.23%	29.49%	48.72%	47.35%			
Probation	38.48%	(18.28)%	15.65%	4.55%	20.20%	33.33%	53.53%	53.75%			
All Plans	24.16%	(12.41)%	9.12%	2.63%	11.75%	14.89%	26.64%	26.19%			
County Only	24.25%	(12.47)%	9.16%	2.62%	11.78%	14.84%	26.62%	26.19%			

<sup>1.</sup> The UAAL Contribution Rate for each member class is the greater of the FYB 2023 calculated UAAL Contribution Rate for the respective class and those calculated in this year's valuation (shown in Exhibits 12a - 12c).

<sup>2.</sup> County UAAL Contribution Rate includes an aggregate offset of 4.48% of payroll to reflect the County Supplementary Contributions Account.

Offsets vary by class of member as follows:

<sup>-</sup> General member UAAL offset is 3.79% of payroll

<sup>-</sup> Safety member UAAL offset is 7.48% of payroll

<sup>-</sup> Probation member UAAL offset is 11.44% of payroll

<sup>3.</sup> SMCM&VCD UAAL Contribution Rate includes an offset of 0.10% of payroll to reflect the District Supplementary Contributions Account.

# Exhibit 10a Employer Statutory Contribution Rates – General Members For the 2024-2025 Fiscal Year

### **General Members**

					Er	nployer Rates		
	Gross Normal Cost	Member Contributions	Basic Normal Cost	COLA Normal Cost	Total Normal Cost	UAAL Contribution Rate (1)(2)	Total Contribution Rate	Prior Year Total Contribution Rate
Plan 1								
County	30.59%	(14.02)%	11.70%	4.87%	16.57%	12.07%	28.64%	26.15%
Courts	30.59%	(14.02)%	11.70%	4.87%	16.57%	15.86%	32.43%	30.00%
Total	30.59%	(14.02)%	11.70%	4.87%	16.57%	12.07%	28.64%	26.15%
Plan 2								
County	26.64%	(15.09)%	7.69%	3.86%	11.55%	12.07%	23.62%	22.06%
Courts	26.64%	(15.09)%	7.69%	3.86%	11.55%	15.86%	27.41%	25.91%
Total	26.64%	(15.09)%	7.69%	3.86%	11.55%	12.24%	23.79%	22.19%
Plan 3								
County	9.39%	0.00%	9.39%	0.00%	9.39%	12.07%	21.46%	21.06%
Courts	9.39%	0.00%	9.39%	0.00%	9.39%	15.86%	25.25%	24.91%
Total	9.39%	0.00%	9.39%	0.00%	9.39%	12.20%	21.59%	21.18%
Plan 4								
County	25.03%	(14.12)%	8.22%	2.69%	10.91%	12.07%	22.98%	22.59%
Courts	25.03%	(14.12)%	8.22%	2.69%	10.91%	15.86%	26.77%	26.44%
Total	25.03%	(14.12)%	8.22%	2.69%	10.91%	12.27%	23.18%	22.79%
<u>Plan 5</u>								
County	23.61%	(10.20)%	10.97%	2.44%	13.41%	12.07%	25.48%	25.12%
Courts	23.61%	(10.20)%	10.97%	2.44%	13.41%	15.86%	29.27%	28.97%
Total	23.61%	(10.20)%	10.97%	2.44%	13.41%	12.31%	25.72%	25.37%
Plan 7								
County	19.26%	(9.63)%	7.73%	1.90%	9.63%	12.07%	21.70%	21.31%
Courts	19.26%	(9.63)%	7.73%	1.90%	9.63%	15.86%	25.49%	25.16%
Total	19.26%	(9.63)%	7.73%	1.90%	9.63%	12.25%	21.88%	21.50%
All Plans								
County	21.83%	(11.42)%	8.11%	2.30%	10.41%	12.07%	22.48%	22.09%
Courts	21.97%	(11.48)%	8.17%	2.32%	10.49%	15.86%	26.35%	26.02%
Total	21.85%	(11.42)%	8.11%	2.32%	10.43%	12.26%	22.69%	22.31%

<sup>1.</sup> UAAL Contribution Rate (before SCA offset) is the greater of 15.86% and the calculated UAAL Contribution Rate shown in Exhibit 12a.

<sup>2.</sup> UAAL Contribution Rate includes an offset of 3.79% of payroll to reflect the County Supplementary Contributions Account, except for Courts.

# Exhibit 10b Employer Statutory Contribution Rates – SMCM&VCD Members For the 2024-2025 Fiscal Year

### **SMCM&VCD Members**

					Er	nployer Rates		
	Gross Normal Cost	Member Contributions	Basic Normal Cost	COLA Normal Cost	Total Normal Cost	UAAL Contribution Rate (1)(2)	Total Contribution Rate	Prior Year Total Contribution Rate
Plan 1 <sup>(3)</sup>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Plan 2 <sup>(3)</sup>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Plan 4	23.71%	(8.35)%	10.60%	4.76%	15.36%	15.76%	31.12%	27.92%
Plan 7	19.38%	(9.69)%	7.73%	1.96%	9.69%	15.76%	25.45%	22.58%
All Plans	21.35%	(9.08)%	9.03%	3.24%	12.27%	15.76%	28.03%	25.06%

<sup>1.</sup> UAAL Contribution Rate (before SCA offset) is the greater of 15.86% and the calculated UAAL Contribution Rate shown in Exhibit 12a.

<sup>2.</sup> UAAL Contribution Rate includes an offset of 0.10% of payroll to reflect the District Supplementary Contributions Account.

<sup>3.</sup> There are currently no active Plan 1 or Plan 2 members. Employer rates will be developed in the future if needed.

# Exhibit 10c Employer Statutory Contribution Rates – Safety Members For the 2024-2025 Fiscal Year

### **Safety Members**

					En	nployer Rates		
	Gross Normal Cost	Member Contributions	Basic Normal Cost	COLA Normal Cost	Total Normal Cost	UAAL Contribution Rate (1)(2)	Total Contribution Rate	Prior Year Total Contribution Rate
Plan 1 <sup>(3)</sup>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Plan 2	48.24%	(21.12)%	18.48%	8.64%	27.12%	29.49%	56.61%	50.66%
Plan 4	42.13%	(20.55)%	16.71%	4.87%	21.58%	29.49%	51.07%	49.18%
Plan 5	41.11%	(19.47)%	16.95%	4.69%	21.64%	29.49%	51.13%	49.49%
Plan 6 <sup>(3)</sup>	N/A	N/A	N/A	N/A	NA	NA	NA	NA
Plan 7	31.81%	(15.91)%	12.34%	3.56%	15.90%	29.49%	45.39%	44.59%
All Plans	37.57%	(18.34)%	14.87%	4.36%	19.23%	29.49%	48.72%	47.35%

<sup>1.</sup> UAAL Contribution Rate (before SCA offset) is the greater of 36.97% and the calculated UAAL Contribution Rate shown in Exhibit 12b.

<sup>2.</sup> UAAL Contribution Rate includes an offset of 7.48% of payroll to reflect the County Supplementary Contributions Account.

<sup>3.</sup> There are currently no active Safety Plan 1 or Plan 6 members. Employer rates will be developed in the future if needed.

# Exhibit 10d Employer Statutory Contribution Rates – Probation Members For the 2024-2025 Fiscal Year

### **Probation Members**

					Er	nployer Rates		
	Gross Normal Cost	Member Contributions	Basic Normal Cost	COLA Normal Cost	Total Normal Cost	UAAL Contribution Rate (1)(2)	Total Contribution Rate	Prior Year Total Contribution Rate
Plan 1 <sup>(3)</sup>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Plan 2	44.98%	(12.25)%	21.97%	10.76%	32.73%	33.33%	66.06%	59.69%
Plan 4	40.72%	(19.14)%	16.82%	4.76%	21.58%	33.33%	54.91%	54.91%
Plan 5	36.03%	(18.41)%	13.37%	4.25%	17.62%	33.33%	50.95%	52.07%
Plan 6 <sup>(3)</sup>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Plan 7	32.45%	(16.23)%	12.56%	3.66%	16.22%	33.33%	49.55%	50.26%
All Plans	38.48%	(18.28)%	15.65%	4.55%	20.20%	33.33%	53.53%	53.75%

<sup>1.</sup> UAAL Contribution Rate (before SCA offset) is the greater of 44.77% and the calculated UAAL Contribution Rate shown in Exhibit 12c.

<sup>2.</sup> UAAL Contribution Rate includes an offset of 11.44% of payroll to reflect the County Supplementary Contributions Account.

<sup>3.</sup> There are currently no active Probation Plan 1 or Plan 6 members. Employer rates will be developed in the future if needed.

Exhibit 11
Calculated Gross Normal Cost Rates

## **All Plans**

			Normal Cost		
Plan	Service Retirement	Disability Retirement	Death Benefits while Active	Termination Benefits	Total Gross Normal Cost
General Plan 1	23.04%	2.23%	0.32%	4.99%	30.59%
General Plan 2	19.82%	1.07%	0.31%	5.44%	26.64%
General Plan 3	8.67%	0.00%	0.00%	0.72%	9.39%
General Plan 4	19.01%	1.09%	0.31%	4.62%	25.03%
General Plan 5	18.20%	1.44%	0.35%	3.62%	23.61%
General Plan 7	14.83%	1.21%	0.28%	2.94%	19.26%
General Total	16.71%	1.17%	0.29%	3.68%	21.85%
SMCM&VCD Plan 1	N/A	N/A	N/A	N/A	N/A
SMCM&VCD Plan 2	N/A	N/A	N/A	N/A	N/A
SMCM&VCD Plan 4	18.23%	1.01%	0.28%	4.19%	23.71%
SMCM&VCD Plan 7	14.56%	1.08%	0.36%	3.38%	19.38%
SMCM&VCD Total	16.23%	1.05%	0.32%	3.75%	21.35%
Safety Plan 1	N/A	N/A	N/A	N/A	N/A
Safety Plan 2	37.91%	5.44%	0.46%	4.43%	48.24%
Safety Plan 4	33.28%	4.38%	0.43%	4.04%	42.13%
Safety Plan 5	30.79%	6.37%	0.44%	3.51%	41.11%
Safety Plan 6	N/A	N/A	N/A	N/A	N/A
Safety Plan 7	23.25%	5.35%	0.39%	2.82%	31.81%
Safety Total	28.57%	5.17%	0.41%	3.42%	37.57%
Probation Plan 1	N/A	N/A	N/A	N/A	N/A
Probation Plan 2	36.74%	3.55%	0.39%	4.30%	44.98%
Probation Plan 4	32.85%	3.62%	0.34%	3.91%	40.72%
Probation Plan 5	28.51%	3.97%	0.34%	3.21%	36.03%
Probation Plan 6	N/A	N/A	N/A	N/A	N/A
Probation Plan 7	24.85%	4.33%	0.33%	2.94%	32.45%
Probation Total	30.69%	3.81%	0.34%	3.64%	38.48%
All Plans	18.49%	1.71%	0.31%	3.65%	24.16%

# Exhibit 12a UAAL Amortization Detail – General Members

(Dollars in Thousands)

	Unfunded Actuarial Liability Amortization Detail														
Date Established	Description		ance as of ne 30, 2023		erest on Balance	Pay	ortization yment on e 30, 2024	Balance as of June 30, 2024		Remaining Period as of June 30, 2024	July 1, 2024 Amortization Payment				
June 30, 2023	Initial UAAL	\$	755,563	\$	47,223	\$	94,197	\$	708,589	15 Years	\$	58,181			
							To	otal Am	ortization Pay	ment July 1, 2024:	\$	58,181			
									Projected P	ayroll July 1, 2024:	\$	559,719			
UAAL as o	of June 30, 2023:	\$	755,563		UAA	L Contr	ibution Rate	(as a º	% of Payroll)	FYB July 1, 2024:		10.39%			

- 1. Amortization Payments are based on a fixed schedule that increases by the payroll growth assumption each year.
- 2. The calculation of UAAL is as of June 30, 2023; whereas the contribution rates are effective as of July 1, 2024. The June 30, 2023 UAAL is adjusted to June 30, 2024 based on the July 1, 2023 contribution rates and June 30, 2023 valuation assumptions.
- 3. (Gain)/Loss includes new assumptions adopted in the June 30, 2023 valuation.

# Exhibit 12b UAAL Amortization Detail – Safety Members

(Dollars in Thousands)

	Unfunded Actuarial Liability Amortization Detail														
Date Established	Description		ance as of ne 30, 2023		erest on Balance	Pay	ortization yment on e 30, 2024		ance as of le 30, 2024	Remaining Period as of June 30, 2024	Am	ly 1, 2024 ortization ayment			
June 30, 2023	Initial UAAL	\$	202,525	\$	12,658	\$	29,132	\$	186,051	15 Years	\$	15,276			
							To	otal Am	ortization Pay	ment July 1, 2024:	\$	15,276			
									Projected P	ayroll July 1, 2024:	\$	75,247			
UAAL as o	of June 30, 2023:	\$	202,525		UAA	L Contr	ibution Rate	(as a <sup>c</sup>	% of Payroll)	FYB July 1, 2024:		20.30%			

- 1. Amortization Payments are based on a fixed schedule that increases by the payroll growth assumption each year.
- 2. The calculation of UAAL is as of June 30, 2023; whereas the contribution rates are effective as of July 1, 2024. The June 30, 2023 UAAL is adjusted to June 30, 2024 based on the July 1, 2023 contribution rates and June 30, 2023 valuation assumptions.
- 3. (Gain)/Loss includes new assumptions adopted in the June 30, 2023 valuation.

# Exhibit 12c UAAL Amortization Detail – Probation Members

(Dollars in Thousands)

	Unfunded Actuarial Liability Amortization Detail													
Date Established	Description		ance as of e 30, 2023		erest on alance	Pay	ortization ment on 30, 2024		ance as of e 30, 2024	Remaining Period as of June 30, 2024	Am	y 1, 2024 ortization ayment		
June 30, 2023	Initial UAAL	\$	87,032	\$	5,440	\$	9,193	\$	83,279	15 Years	\$	6,838		
							To	otal Am	ortization Pay	ment July 1, 2024:	\$	6,838		
									Projected P	ayroll July 1, 2024:	\$	19,660		
UAAL as o	of June 30, 2023:	\$	87,032		UAA	L Contri	bution Rate	(as a %	6 of Payroll)	FYB July 1, 2024:		34.78%		

- 1. Amortization Payments are based on a fixed schedule that increases by the payroll growth assumption each year.
- 2. The calculation of UAAL is as of June 30, 2023; whereas the contribution rates are effective as of July 1, 2024. The June 30, 2023 UAAL is adjusted to June 30, 2024 based on the July 1, 2023 contribution rates and June 30, 2023 valuation assumptions.
- 3. (Gain)/Loss includes new assumptions adopted in the June 30, 2023 valuation.

# Exhibit 12d CSCA Amortization Detail – General Members

(Dollars in Thousands)

				Genera	al Mem	bers					
Date Established	Description	 ance as of e 30, 2023	_	erest on alance	Pa	ortization yment on ie 30, 2024		ance as of e 30, 2024	Remaining Period as of June 30, 2024	Am	ly 1, 2024 ortization ayment
June 30, 2014	Initial CSCA	\$ 23,572	\$	1,473	\$	4,511	\$	20,534	5 Years	\$	4,413
June 30, 2015	<b>CSCA Addition</b>	\$ 5,804	\$	363	\$	966	\$	5,201	6 Years	\$	945
June 30, 2016	<b>CSCA Addition</b>	\$ 11,253	\$	703	\$	1,664	\$	10,292	7 Years	\$	1,625
June 30, 2017	<b>CSCA Addition</b>	\$ 20,352	\$	1,272	\$	2,715	\$	18,908	8 Years	\$	2,648
June 30, 2018	<b>CSCA Addition</b>	\$ 17,890	\$	1,118	\$	2,180	\$	16,828	9 Years	\$	2,124
June 30, 2019	<b>CSCA Addition</b>	\$ 31,728	\$	1,983	\$	3,567	\$	30,144	10 Years	\$	3,471
June 30, 2020	<b>CSCA Addition</b>	\$ (915)	\$	(57)	\$	(96)	\$	(877)	11 Years	\$	(93)
June 30, 2021	<b>CSCA Addition</b>	\$ 33,449	\$	2,091	\$	3,276	\$	32,263	12 Years	\$	3,181
June 30, 2022	<b>CSCA Addition</b>	\$ 12,854	\$	803	\$	1,186	\$	12,471	13 Years	\$	1,150
June 30, 2023	CSCA Addition	\$ 6,443	\$	403	\$	-	\$	6,845	14 Years	\$	594
						Total CSC	A Cour	nty Offset Pay	ment July 1, 2024:	\$	20,057
							Projec	ted County Pa	ayroll July 1, 2024:	\$	529,294
CSCA Value as o	f June 30, 2023:	\$ 162,430		С	SCA C	ounty Offset	(as a %	6 of Payroll)	FYB July 1, 2024:		3.79%

- 1. CSCA Offsets are based on a fixed schedule that increases by the payroll growth assumption each year.
- 2. The calculation of CSCA amounts are as of June 30, 2023; whereas the contribution rates are effective as of July 1, 2024. The June 30, 2023 CSCA is adjusted to June 30, 2024 based on the July 1, 2023 contribution rates and June 30, 2023 valuation assumptions.

Exhibit 12e CSCA Amortization Detail – Safety Members

(Dollars in Thousands)

			Safety	Memb	ers					
Date Established	Description	 nce as of e 30, 2023	 rest on lance	Pay	ortization ment on e 30, 2024		nce as of e 30, 2024	Remaining Period as of June 30, 2024	Amo	y 1, 2024 ortization ayment
June 30, 2014	Initial CSCA	\$ 7,988	\$ 499	\$	1,529	\$	6,958	5 Years	\$	1,495
June 30, 2015	<b>CSCA Addition</b>	\$ 1,969	\$ 123	\$	328	\$	1,764	6 Years	\$	320
June 30, 2016	<b>CSCA Addition</b>	\$ 3,413	\$ 213	\$	505	\$	3,122	7 Years	\$	493
June 30, 2017	<b>CSCA Addition</b>	\$ 6,141	\$ 384	\$	819	\$	5,706	8 Years	\$	799
June 30, 2018	<b>CSCA Addition</b>	\$ 5,535	\$ 346	\$	675	\$	5,207	9 Years	\$	657
June 30, 2019	<b>CSCA Addition</b>	\$ 8,650	\$ 541	\$	972	\$	8,218	10 Years	\$	946
June 30, 2020	<b>CSCA Addition</b>	\$ (615)	\$ (38)	\$	(64)	\$	(589)	11 Years	\$	(63)
June 30, 2021	<b>CSCA Addition</b>	\$ 8,111	\$ 507	\$	794	\$	7,823	12 Years	\$	771
June 30, 2022	<b>CSCA Addition</b>	\$ 3,164	\$ 198	\$	292	\$	3,070	13 Years	\$	283
June 30, 2023	CSCA Addition	\$ (810)	\$ (51)	\$	-	\$	(860)	14 Years	\$	(75)
					Total CSC	A Coun	ty Offset Pay	ment July 1, 2024:	\$	5,628
						Project	ted County Pa	ayroll July 1, 2024:	\$	75,247
CSCA Value as o	f June 30, 2023:	\$ 43,545	С	SCA C	ounty Offset	(as a %	of Payroll)	FYB July 1, 2024:		7.48%

- 1. CSCA Offsets are based on a fixed schedule that increases by the payroll growth assumption each year.
- 2. The calculation of CSCA amounts are as of June 30, 2023; whereas the contribution rates are effective as of July 1, 2024. The June 30, 2023 CSCA is adjusted to June 30, 2024 based on the July 1, 2023 contribution rates and June 30, 2023 valuation assumptions.

Exhibit 12f
CSCA Amortization Detail – Probation Members

(Dollars in Thousands)

			Probati	on Men	nbers					
Date Established	Description	 nce as of e 30, 2023	 rest on	Pa	ortization yment on e 30, 2024		nce as of e 30, 2024	Remaining Period as of June 30, 2024	Amo	y 1, 2024 ortization ayment
June 30, 2014	Initial CSCA	\$ 2,172	\$ 136	\$	416	\$	1,892	5 Years	\$	407
June 30, 2015	<b>CSCA Addition</b>	\$ 561	\$ 35	\$	93	\$	502	6 Years	\$	91
June 30, 2016	<b>CSCA Addition</b>	\$ 1,191	\$ 74	\$	176	\$	1,089	7 Years	\$	172
June 30, 2017	<b>CSCA Addition</b>	\$ 2,430	\$ 152	\$	324	\$	2,257	8 Years	\$	316
June 30, 2018	<b>CSCA Addition</b>	\$ 1,866	\$ 117	\$	227	\$	1,755	9 Years	\$	221
June 30, 2019	<b>CSCA Addition</b>	\$ 3,469	\$ 217	\$	390	\$	3,296	10 Years	\$	380
June 30, 2020	<b>CSCA Addition</b>	\$ 954	\$ 60	\$	100	\$	913	11 Years	\$	97
June 30, 2021	<b>CSCA Addition</b>	\$ 3,693	\$ 231	\$	362	\$	3,562	12 Years	\$	351
June 30, 2022	<b>CSCA Addition</b>	\$ 2,257	\$ 141	\$	208	\$	2,190	13 Years	\$	202
June 30, 2023	CSCA Addition	\$ 125	\$ 8	\$	-	\$	133	14 Years	\$	12
					Total CSC	A Coun	ty Offset Pay	ment July 1, 2024:	\$	2,249
						Project	ted County P	ayroll July 1, 2024:	\$	19,660
CSCA Value as o	f June 30, 2023:	\$ 18,717	C	SCA C	ounty Offset	(as a %	of Payroll)	FYB July 1, 2024:		11.44%

- 1. CSCA Offsets are based on a fixed schedule that increases by the payroll growth assumption each year.
- 2. The calculation of CSCA amounts are as of June 30, 2023; whereas the contribution rates are effective as of July 1, 2024. The June 30, 2023 CSCA is adjusted to June 30, 2024 based on the July 1, 2023 contribution rates and June 30, 2023 valuation assumptions.

# Exhibit 12g Amortization Detail – District SCA Offsets

(Dollars in Thousands)

			S	мсм&	VCD	Members					
Date Established	Description	 nce as of 30, 2023		erest on lance	Р	mortization ayment on ine 30, 2024		ance as of le 30, 2024	Remaining Period as of June 30, 2024	Amo	1, 2024 ortization syment
June 30, 2016	Initial DSCA	\$ 49	\$	3	\$	52	\$	-	0 Years	\$	-
June 30, 2017	DSCA Addition	\$ 8	\$	1	\$	9	\$	-	0 Years	\$	-
June 30, 2018	DSCA Addition	\$ 0	\$	0	\$	0	\$	-	0 Years	\$	-
June 30, 2019	DSCA Addition	\$ 1	\$	0	\$	1	\$	-	0 Years	\$	-
June 30, 2020	DSCA Addition	\$ 0	\$	0	\$	0	\$	-	0 Years	\$	-
June 30, 2021	DSCA Addition	\$ 1	\$	0	\$	1	\$	-	0 Years	\$	-
June 30, 2022	DSCA Addition	\$ 7	\$	0	\$	7	\$	-	0 Years	\$	-
June 30, 2023	DSCA Addition	\$ 3	\$	0	\$	-	\$	3	1 Year	\$	3
						Total	DSC	A Offset Payn	nent July 1, 2024:	\$	3
						P	roject	ed District Pa	yroll July 1, 2024:	\$	2,737
DSCA Value as of	June 30, 2023:	\$ 70		DSC	A Dis	strict Offset (a	s a %	of Payroll) F	YB July 1, 2024:		0.10%

- 1. DSCA Offsets are based on a fixed schedule that increases by the payroll growth assumption each year.
- 2. The calculation of DSCA amounts are as of June 30, 2023; whereas the contribution rates are effective as of July 1, 2024. The June 30, 2023 DSCA is adjusted to June 30, 2024 based on the July 1, 2023 contribution rates and June 30, 2023 valuation assumptions.

# 7. Supplemental Information

We are providing several exhibits in this report for consistency with prior reports and as supporting information for inclusion in SamCERA's ACFR.

- Exhibit 13 Schedule of Funding Progress
- Exhibit 14 Funding Liabilities by Type
- Exhibit 15 History of Employer Contribution Rates
- Exhibit 16 Actuarial Analysis of Financial Experience
- Exhibit 17 Summary of Significant Actuarial Statistics and Measures
- Exhibit 18 Summary of SamCERA Membership
- Exhibit 19 Summary of Active Member Valuation Data
- Exhibit 20 Summary of Demographic Activity of Retirees and Beneficiaries
- Exhibit 21 Average Salary and Active Counts by Employer

The Governmental Accounting Standards Board (GASB) Statement 67 sets standards for defined benefit pension plan reporting and disclosures. The reporting requirements for GASB 67 include certain supplementary information that must be added to the financial statements. GASB Statement 68 specifies financial reporting for pension accounting by state and local governmental employers. We will provide information required for GASB 67 and GASB 68 in a separate report.

All liability calculations shown in this Section 7 are based on an investment return assumption of 6.25%. GASB 67 and 68 calculations as of June 30, 2023 will use an investment return assumption of 6.42%, as the investment return for GASB 67 and 68 is required to be gross of expected administrative expenses.

Exhibit 13
Schedule of Funding Progress

(Dollars in Thousands)

Actuarial Valuation Date	(a) Actuarial Value of Valuation Assets		(b) Actuarial Accrued Liabilities		(b-a) Infunded Actuarial Accrued Ilities (UAAL)	(a/b) Funded Ratio	` ,		[(b-a)/c] UAAL as a Percentage of Covered Payroll
June 30, 2014	\$ 2,993,187	\$	3,797,042	\$	803,855	78.8%	\$	416,274	193.11%
June 30, 2015	3,343,550		4,045,786		702,236	82.6%		439,018	159.96%
June 30, 2016	3,624,726		4,362,296		737,570	83.1%		472,385	156.14%
June 30, 2017	3,976,717		4,719,850		743,133	84.3%		510,132	145.67%
June 30, 2018	4,351,502		4,970,535		619,033	87.5%		535,938	115.50%
June 30, 2019	4,685,502		5,459,978		774,476	85.8%		554,734	139.61%
June 30, 2020	4,998,316		5,786,054		787,738	86.4%		593,295	132.77%
June 30, 2021	5,488,958		6,227,066		738,108	88.1%		600,369	122.94%
June 30, 2022	5,922,894		6,530,039		607,145	90.7%		611,957	99.21%
June 30, 2023	6,215,283		7,035,641		820,358	88.3%		631,144	129.98%

Note: The Covered Payroll amounts are consistent with the GASB 67/68 Disclosure report.

Exhibit 14
Funding Liabilities by Type

(Dollars in Thousands)

				Actu	uarial	Accrued Liabi			Dordin	n of Actuarial A	
Actuarial	Valuation		Active Member Contributions			Retirees and Beneficiaries <sup>(1)</sup>		ve Members Employer Financed Portion)	Liabilities Covered by  Assets		
Valuation Date		Assets		(A)		(B)		(C)	(A)	(B)	(C)
June 30, 2014	\$	2,993,187	\$	584,080	\$	2,285,328	\$	927,634	100%	100%	13%
June 30, 2015		3,343,550		628,287		2,451,544		965,955	100%	100%	27%
June 30, 2016		3,624,726		679,246		2,635,409		1,047,641	100%	100%	30%
June 30, 2017		3,976,717		735,102		2,811,651		1,173,097	100%	100%	37%
June 30, 2018		4,351,502		783,887		3,032,813		1,153,835	100%	100%	46%
June 30, 2019		4,685,502		769,137		3,369,094		1,321,747	100%	100%	41%
June 30, 2020		4,998,316		858,906		3,609,214		1,317,934	100%	100%	40%
June 30, 2021		5,488,958		895,745		3,908,520		1,422,801	100%	100%	48%
June 30, 2022		5,922,894		937,791		4,240,655		1,351,593	100%	100%	55%
June 30, 2023		6,215,283		973,282		4,623,434		1,438,925	100%	100%	43%

<sup>1.</sup> Includes inactive members.

# Exhibit 15 History of Employer Statutory Contribution Rates

				Statutory Cor	tribution Rat	es			
Valuation		eneral Membe County & Court		_	eneral Membe lurses & UAPI		_	eneral Membe (SMCM&VCD)	
Year	Normal	UAAL	Total	Normal	UAAL	Total	Normal	UAAL	Total
2014	10.12% 20.27% 30.39% 9.14% 20.21% 29.35% 11.72% 21.16% 32.88%							32.88%	

	Statutory Contribution Rates											
Valuation	General Members n (County)			Ge	eneral Member (Courts)	rs	General Members (SMCM&VCD)					
Year	Normal	UAAL	Total	Normal	UAAL	Total	Normal	UAAL	Total			
2015	8.67%	18.37%	27.04%	9.04%	19.54%	28.58%	11.75%	19.54%	31.29%			
2016	8.91%	19.81%	28.72%	9.09%	21.30%	30.39%	12.02%	12.50%	24.52%			
2017	9.58%	20.55%	30.13%	9.65%	22.58%	32.23%	12.32%	12.37%	24.69%			
2018	9.22%	19.32%	28.54%	9.27%	21.76%	31.03%	12.13%	0.00%	12.13%			
2019	9.93%	22.18%	32.11%	10.01%	25.21%	35.22%	12.58%	0.00%	12.58%			
2020	9.57%	23.22%	32.79%	9.63%	26.22%	35.85%	12.37%	0.39%	12.76%			
2021	10.18%	21.84%	32.02%	10.28%	25.45%	35.73%	12.10%	0.00%	12.10%			
2022	10.08%	12.01%	22.09%	10.16%	15.86%	26.02%	11.92%	13.14%	25.06%			
2023	10.41%	12.07%	22.48%	10.49%	15.86%	26.35%	12.27%	15.76%	28.03%			

	Statutory Contribution Rates										
Valuation	S	Safety Member			bation Membeluding Manage		Probation Members (Managers)				
Year	Normal	UAAL	Total	Normal	UAAL	Total	Normal	UAAL	Total		
2014	18.99%	46.48%	65.47%	18.92%	28.09%	47.01%	18.79%	28.09%	46.88%		
2015	15.14%	43.58%	58.72%	15.31%	26.77%	42.08%	17.23%	26.77%	44.00%		
2016	16.31%	44.25%	60.56%	15.94%	31.72%	47.66%	Same as F	Probation (ex N	Managers)		
2017	17.28%	45.57%	62.85%	17.42%	32.87%	50.29%	Same as F	Probation (ex N	Managers)		
2018	16.98%	44.68%	61.66%	16.95%	32.88%	49.83%	Same as F	Probation (ex N	Managers)		
2019	18.02%	50.87%	68.89%	17.97%	42.55%	60.52%	Same as F	Probation (ex N	Managers)		
2020	17.57%	54.42%	71.99%	18.30%	47.68%	65.98%	Same as F	Probation (ex N	Managers)		
2021	18.84%	55.10%	73.94%	19.40%	50.12%	69.52%	Same as F	Probation (ex N	Managers)		
2022	18.56%	28.79%	47.35%	19.27%	34.48%	53.75%	Same as F	Probation (ex N	Managers)		
2023	19.23%	29.49%	48.72%	20.20%	33.33%	53.53%	Same as F	Probation (ex N	Managers)		

#### Notes:

- 1. Contribution rates shown are those calculated in the corresponding actuarial valuation. In some cases, actual contributions were higher.
- 2. Beginning with the 2010 actuarial valuation, the SMCM&VCD adopted the same benefit formula and member contribution rates as Plan 1, 2 & 4 General County members (excluding cost sharing and COLA sharing on member rates).
- 3. Beginning with the 2011 actuarial valuation, Plan 1, 2, and 4 members of the CNA contribute 25% of the cost of COLA, in addition to current member rates and cost sharing.
- 4. Beginning with the 2012 actuarial valuation, Plan 1, 2, and 4 Probation members (excluding Managers) contribute 25% of the cost of COLA, in addition to current member rates and cost sharing.
- 5. Beginning with the 2013 actuarial valuation, Plan 1, 2, and 4 members of the UAPD contribute 25% of the cost of COLA, in addition to current member rates and cost sharing. In 2011 and 2012 these members contributed the same as County General members.
- 6. Beginning with the 2015 actuarial valuation, Plan 1, 2, and 4 members of the UAPD and the CNA, and Probation members (Managers) contribute 50% of the cost of COLA, in addition to current member rates and cost sharing.
- 7. Effective with the first pay period after June 30, 2016 all members (except those with benefits negotiated under Court Interpreters and Board of Supervisors bargaining units, and SMCM&VCD members) contribute 50% of the cost of COLA, in addition to current member rates and cost sharing. Additionally, pick-up contributions are discontinued for members with benefits negotiated under the PDA bargaining unit.
- 8. Effective October 2016, all members (except those with benefits negotiated under Board of Supervisors bargaining unit, and SMCM&VCD members) contribute 50% of the cost of COLA, in addition to current member rates and cost sharing. This is reflected in 2016 values.
- 9. Effective July 1, 2018, the Board of Supervisors contribute 50% of the cost of COLA, in addition to current member rates and cost sharing. Additionally, pick-up contributions were eliminated.

Exhibit 16
Actuarial Analysis of Financial Experience

Summary of (Gains) / Losses			Change In Liability	/	
	2023	2022	2021	2020	2019
Unfunded Liability as of July 1	\$ 607,145,000	\$ 738,108,000	\$ 787,737,000	\$ 774,476,000	\$ 619,033,000
Expected Change in UAAL	(134,643,000)	(138,405,000)	(157,668,000)	(85,527,000)	(153,261,000)
Salary (Gain) / Loss	31,440,000	34,541,000	12,064,000	25,190,000	50,472,000
Retiree COLA more / (less) than expected	33,389,000	16,379,000	(25,973,000)	18,992,000	21,749,000
Asset (Gain) / Loss	101,991,000	(47,017,000)	(87,748,000)	15,884,000	46,909,000
Change due to Assumption Changes	161,882,000	0	197,720,000	11,593,000	173,944,000
Miscellaneous Experience	19,154,000	3,539,000	11,976,000	27,129,000	15,630,000
Unfunded Liability as of June 30	\$ 820,358,000	\$ 607,145,000	\$ 738,108,000	\$ 787,737,000	\$ 774,476,000

**Exhibit 17 Summary of Significant Actuarial Statistics and Measures** 

		June	9 30th	of	Relative
		2023		2022	Change
Active Members					
Number of Members		5,334		5,249	1.6 %
Average Age		44.8		44.9	(0.2)%
Average Credited Service		10.1		10.3	(1.9)%
Covered Payroll (\$thousands)	\$	631,144	\$	611,957	`3.1 <sup>´</sup> %
Average Monthly Salary	\$	10,166	\$	9,743	4.3 %
2. Retired Members					
Number of Members					
Service Retirement		4,700		4,608	2.0 %
Disability Retirement		508 724		493	3.0 %
Beneficiaries		724 71.5		678 71.4	6.8 % 0.1 %
Average Age Actual Retiree Benefits Paid (\$thousands)	\$	71.5 298,934	\$	71.4 276,502	8.1 %
,	\$	•		*	4.2 %
Average Monthly Pension	Ф	4,351	\$	4,174	4.2 %
3. Number of Inactive Members		2,424		2,224	9.0 %
4. Assets					
Market Value of Fund (\$thousands)	\$	6,005,043	\$	5,649,674	6.3 %
Return on Market Value		6.0%	-	-6.1%	
Valuation Assets (\$thousands)	\$	6,215,283	\$	5,922,894	4.9 %
Return on Valuation Assets		4.5%		7.1%	
5. Liability Values (\$thousands)					
Actuarial Accrued Liability	\$	7,035,641	\$	6,530,039	7.7 %
Unfunded Actuarial Accrued Liability	\$	820,358	\$	607,145	35.1%
Deferred Asset (Gains) / Losses	\$	273,020	\$	333,047	00.170
6. Funded Ratio					
(based on valuation assets)		88.3%		90.7%	(2.6)%

Exhibit 18
Summary of SamCERA Membership

Plan	One	Two	Three	Four	Five	Six	Seven	Total
Retirees and beneficiaries curre	ntly receiving	benefits:						
General	1,110	2,292	124	1,272	41	-	55	4,894
Safety	250	269	-	181	9	-	9	718
Probation	86	123	-	110	-	-	1	320
Subtotal	1,446	2,684	124	1,563	50	-	65	5,932
Inactive employees entitled to be	ut not current	y receiving b	enefits (Defe	erred):				
General	4	174	67	779	134	-	1,079	2,237
Safety	-	6	-	36	10	-	65	117
Probation	-	10	-	41	1	-	18	70
Subtotal	4	190	67	856	145	-	1,162	2,424
Current employees:								
Vested:								
General	2	223	35	1,394	189	-	1,134	2,977
Safety	-	9	-	142	54	-	124	329
Probation	-	2	-	95	8	-	30	135
Non-Vested:								
General			2	2	58	-	1,688	1,750
Safety	-	1	-		16	-	115	132
Probation	-		-			-	11	11
Subtotal	2	235	37	1,633	325	-	3,102	5,334
Total SamCERA Membership	1,452	3,109	228	4,052	520	-	4,329	13,690

**Exhibit 19 Summary of Active Member Valuation Data** 

Valuatio	n			Average	% Change
Date		Members	Annual Salary	Annual Salary	Average Salary
2014	General	4,272	\$352,918,558	\$82,612	1.8%
	Safety	452	52,974,475	117,200	1.4%
	Probation	280	23,514,343	83,980	3.4%
	Total	5,004	429,407,375	85,813	1.8%
2015	General	4,334	382,303,295	88,210	6.8%
	Safety	479	55,917,864	116,739	-0.4%
	Probation	282	24,418,977	86,592	3.1%
	Total	5,095	462,640,136	90,803	5.8%
2016	General	4,421	408,191,518	92,330	4.7%
	Safety	495	61,564,028	124,372	6.5%
	Probation	271	24,034,819	88,689	2.4%
	Total	5,187	493,790,365	95,198	4.8%
2017	General	4,560	430,613,886	94,433	2.3%
	Safety	503	65,105,116	129,434	4.1%
	Probation	274	26,503,623	96,729	9.1%
	Total	5,337	522,222,625	97,849	2.8%
2018	General	4,603	448,931,595	97,530	3.3%
	Safety	508	66,799,289	131,495	1.6%
	Probation	256	25,741,800	100,554	4.0%
	Total	5,367	541,472,684	100,889	3.1%
2019	General	4,610	476,944,186	103,459	6.1%
	Safety	530	70,890,519	133,756	1.7%
	Probation	237	24,680,991	104,139	3.6%
	Total	5,377	572,515,696	106,475	5.5%
2020	General	4,655	496,992,584	106,765	3.2%
	Safety	522	72,724,015	139,318	4.2%
	Probation	223	24,856,263	111,463	7.0%
	Total	5,400	594,572,862	110,106	3.4%
2021	General	4,643	511,069,950	110,073	3.1%
	Safety	520	72,829,550	140,057	0.5%
	Probation	193	22,777,092	118,016	5.9%
	Total	5,356	606,676,591	113,270	2.9%
2022	General	4,603	522,675,192	113,551	3.2%
	Safety	476	69,870,562	146,787	4.8%
	Probation	170	21,156,904	124,452	5.5%
	Total	5,249	613,702,657	116,918	3.2%
2023	General	4,727	554,563,518	117,318	3.3%
	Safety	461	76,973,479	166,971	13.8%
	Probation	146	19,161,180	131,241	5.5%
	Total	5,334	650,698,177	121,991	4.3%

**Exhibit 20 Summary of Demographic Activity of Retirees and Beneficiaries** 

	Add	ed to Rolls <sup>(1)</sup>	Remo	ved from Rolls	R	colls end of year		
Year Ended	No.	Annual Allowances in Thousands	No.	Annual Allowances in Thousands	No.	Total Retiree Payroll in Thousands	% Increase in Payroll	Average Monthly Allowances
June 30, 2014	203	\$ 12,474	83	\$ 3,479	4,518	\$ 163,769	5.8 %	\$ 3,021
June 30, 2015	213	16,290	93	4,179	4,638	175,880	7.4	3,160
June 30, 2016	233	15,347	123	5,030	4,748	186,197	5.9	3,268
June 30, 2017	310	16,738	102	3,867	4,956	199,068	6.9	3,347
June 30, 2018	315	21,360	162	5,242	5,109	215,186	8.1	3,510
June 30, 2019	306	24,547	190	5,769	5,225	233,964	8.7	3,731
June 30, 2020	362	23,862	133	4,862	5,454	252,963	8.1	3,865
June 30, 2021	270	19,466	132	4,327	5,592	268,102	6.0	3,995
June 30, 2022	363	27,963	176	6,607	5,779	289,458	8.0	4,174
June 30, 2023	330	27,113	177	6,815	5,932	309,756	7.0	4,351

<sup>1.</sup> Amount added to rolls includes COLAs granted in year to continuing retirees and beneficiaries.

Exhibit 21
Average Salary and Active Counts by Employer

	2023	2022	2021	2020	2019
General Plan 1	\$19,119	\$18,575	\$18,022	\$11,102	\$9,793
General Plan 2	11,908	11,516	10,957	10,665	10,088
General Plan 3	9,283	8,850	8,623	8,221	7,872
General Plan 4	11,163	10,680	10,087	9,671	9,302
General Plan 5	11,974	11,659	11,092	10,635	10,180
General Plan 7	8,730	8,291	8,014	7,726	7,395
General Plan Total	9,777	9,463	9,173	8,897	8,622
Safety Plan 1	0	0	0	0	0
Safety Plan 2	17,112	16,177	15,162	15,125	14,197
Safety Plan 4	15,851	14,157	13,494	13,204	12,391
Safety Plan 5	15,378	13,127	12,619	12,367	11,708
Safety Plan 6	0	0	0	0	0
Safety Plan 7	12,201	10,507	9,765	9,581	9,030
Safety Plan Total	13,914	12,232	11,671	11,610	11,146
Probation Plan 1	0	0	0	0	0
Probation Plan 2	11,699	11,203	10,641	10,174	9,908
Probation Plan 4	11,406	10,927	10,359	9,827	9,103
Probation Plan 5	11,024	10,219	9,911	9,343	8,587
Probation Plan 6	0	0	0	0	0
Probation Plan 7	9,794	8,983	8,378	7,598	6,973
Probation Plan Total	10,937	10,371	9,835	9,289	8,678
Grand Total	10,166	9,743	9,439	9,176	8,873

# **Participating Employers and Active Members**

	2023	2022	2021	2020	2019
County of San Mateo					
General Members	4,424	4,294	4,375	4,379	4,350
Safety Members	461	476	520	522	530
Probation Members	146	170	193	223	237
Total	5,031	4,940	5,088	5,124	5,117
San Mateo County Mosquito and Vector Control District					
General Members Total	22	22	19	20	20
Courts					
General Members Total	281	287	249	256	240
Total Active Membership	5,334	5,249	5,356	5,400	5.377

#### 8. Risk Discussion

#### Overview

The results of any actuarial valuation are based on one set of reasonable assumptions. Although we believe the current assumptions provide a reasonable estimate of future expectations, it is almost certain that future experience will differ from the assumptions to some extent. It is therefore important to consider the potential impacts of these likely differences when making decisions that may affect the future financial health of the Plan, or of the Plan's members.

Actuarial Standard of Practice 51 (ASOP 51) addresses these issues by providing actuaries with guidance for assessing and disclosing the risk associated with measuring pension liabilities and the determination of pension plan contributions. Specifically, it directs the actuary to:

- Identify risks that may be significant to the Plan.
- Assess the risks identified as significant to the Plan. The assessment does not need to include numerical calculations.
- Disclose plan maturity measures and historical information that are significant to understanding the Plan's risks

ASOP 51 states that if in the actuary's professional judgment, a more detailed assessment would be significantly beneficial in helping the individuals responsible for the Plan to understand the risks identified by the actuary, then the actuary should recommend that such an assessment be performed.

In addition, the California Actuarial Advisory Panel (CAAP) has adopted a set of model disclosure elements for actuarial valuation reports of public retirement systems in California. Most of these elements are included in other areas of this report. The remaining CAAP-recommended disclosures are as follows:

Disclosure Element	Description	Value
Gross Normal Cost \$	Normal Cost allocated to valuation year, paid at mid-year.	\$ 155,648,623
Statutory Contribution \$	Expected Statutory Contribution, paid at mid-year.	\$ 171,625,799
Asset Smoothing Ratio	Actuarial Value of Assets divided by Market Value of Assets	103.5%
Asset Volatility Ratio	Market Value of Assets divided by Payroll	9.3
Liability Volatility Ratio	Actuarial Accrued Liability divided by Payroll	10.9

This risk discussion uses the framework of ASOP 51 and the Asset and Liability Volatility Ratios shown above to communicate important information about: significant risks to the Plan, the Plan's maturity, and relevant historical plan data.

#### **Factors Affecting Future Results**

There are a number of factors that affect future valuation results. To the extent actual experience for these factors varies from the assumptions, this will likely cause either increases or decreases in the Plan's future funding level and employer Statutory Contribution Rates (SCR). The factors that can have the most significant impact on SamCERA's valuation results are:

#### Investment returns

To the extent that actual investment returns differ from the assumed investment return, the Plan's future assets, SCR, and funded status may differ significantly from those presented in this valuation. Additional discussion of the impact of variance of investment returns is included below.

#### Compensation increases

Individual member retirement benefits are linked to that member's compensation. As such, assumptions need to be made as to a member's future compensation increases. Higher future compensation increases will generally result in larger retirement benefits, liabilities, SCRs, and a lower funded status. Conversely, lower compensation increases than assumed will generally result in smaller retirement benefits, liabilities, SCRs, and a higher funded status.

#### Payroll variation

In the valuation, an assumption is made for the overall rate of payroll growth of SamCERA from year-to-year. To the extent that the overall rate of payroll growth is greater than assumed, the SCR may decrease since the Unfunded Actuarial Accrued Liability (UAAL) will be amortized over a larger payroll base. The opposite will occur if the overall rate of payroll growth is lower than assumed.

This effect will often offset somewhat with individual compensation increases discussed above.

#### Longevity and other demographic risks

The liabilities reported in this valuation have been calculated by assuming that members will follow specific patterns of demographic experience (e.g., mortality, retirement, termination, disability) as described in Appendix A. To the extent that actual demographic experience is different than is assumed to occur, future liabilities, SCRs, and funded status may differ from that presented in this valuation.

All of these assumptions are reviewed in detail during the triennial Investigation of Experience study, and are also reviewed annually during the valuation process. Changes in assumptions are generally recommended if actual experience has been materially different than assumed or forecasts have been changed significantly. Additionally, changes may be recommended and discussed at each valuation if they are deemed to be appropriate at that time.

#### Investment Return Risk

Of these factors, we believe the factor with the greatest potential risk to impact future valuation results for SamCERA is future investment returns. For example, if actual returns fall short of the current assumption of 6.25% per year, this will cause an increase in the SCR and a decrease in the Funded Ratio, all other things being equal. Conversely, if actual returns exceed the current assumption of 6.25% per year, this will cause a decrease in the SCR and an increase in the Funded Ratio.

The magnitude of the increase or decrease in the SCR is affected by the maturity level, and specifically the asset volatility ratio. SamCERA has accumulated a significant amount of assets relative to its payroll and by several measures is considered a mature plan. Accumulating assets to pay for future benefit obligations is responsible funding, but it does mean changes in the investment markets can have a significant impact on the SCR.

In terms of the SCR, for SamCERA with a 9.3 asset volatility ratio, a 10% investment gain or loss relative to the assumed 6.25% investment return assumption (that is, an investment return of -3.75%, or of 16.25%, translates to an 8.0% of pay increase (or decrease) in the SCR, all other things being equal. Since SamCERA uses actuarial smoothing, the increase would not be immediate, but would occur gradually over five years and could potentially be offset, or further increased, by future investment gains or losses or other factors.

In terms of the Funded Ratio, this level of volatility would result in an increase or decrease of approximately 9.1% in the Funded Ratio (on a market-value basis) from the current Funded Ratio of 88.3%.

Over the last several years, the County has been able to reduce the year-to-year variation in its actual contribution rate by contributing at a rate that is higher than the SCR.

#### Low-Default-Risk Obligation Measure (LDROM)

The Plan's target asset allocation reflects a balance of risk and return. Investing in asset classes with a low-default-risk is expected to reduce future investment returns and therefore increase future contributions. However, the lower risk levels would be expected to result in lower year-to-year volatility in the SCR and Funding Ratio. A portfolio with a lower default risk might provide more benefit security for members if the associated liabilities are adequately funded. Conversely, investing in asset classes with higher expected returns and volatility is expected to decrease future contributions, but would increase the year-to-year volatility of the SCR and Funding Ratio and could provide less benefit security for members.

Effective for measurement dates February 15, 2023 or later, Actuarial Standard of Practice No. 4 (ASOP 4) states that when performing a funding valuation, the actuary should calculate and disclose a low-default-risk obligation measure (LDROM) of the benefits earned or accrued under the actuarial cost method used as of the measurement date. The actuary should select a discount rate derived from low-default-risk fixed income securities. We have used the Bond Buyer General Obligation 20-Bond Municipal Bond Index. The index is a 20-year high quality AA municipal bond rate and, based on Section 3.11.c. of ASOP 4, we believe this index meets the requirements for a discount rate for the LDROM. The index was 3.65% as of June 30, 2023.

Note that the Governmental Accounting Standard Board (GASB) requires that the discount rate used for financial reporting after a pension plan has depleted its assets be based on an index such as the Bond Buyer index. If the Plan had no assets in an irrevocable trust meeting the requirements of GASB 68, the employers would reflect the entire Total Pension Liability using such a discount rate on the employers' balance sheets.

The following is a summary of the results comparing the LDROM to the Plan's current assumption.

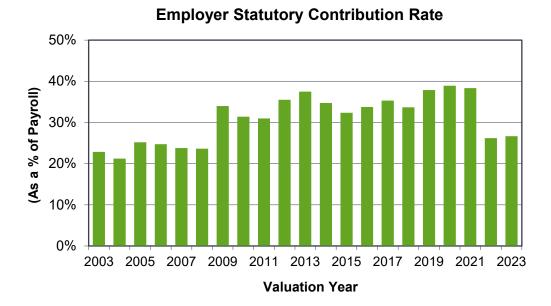
	Bond Buyer Index	Current Assumption
Discount Rate	3.65%	6.25%
Actuarial Accrued Liability as of June 30, 2023 1,2	\$10,257,977	\$7,035,641
Funding Ratio - Valuation Assets	60.6%	88.3%
Funding Ratio - Market Value of Assets	58.5%	85.4%

<sup>1.</sup> Calculated using the same actuarial assumptions and methods as used for this valuation, except for the discount rate.

<sup>2.</sup> Amounts in thousands of dollars

#### **Historical Variation in Statutory Contribution Rate**

One way to assess future risks is to look at historical measurements. The following graph shows how the SCR has varied over the last 20 years under various investment return and assumption environments.



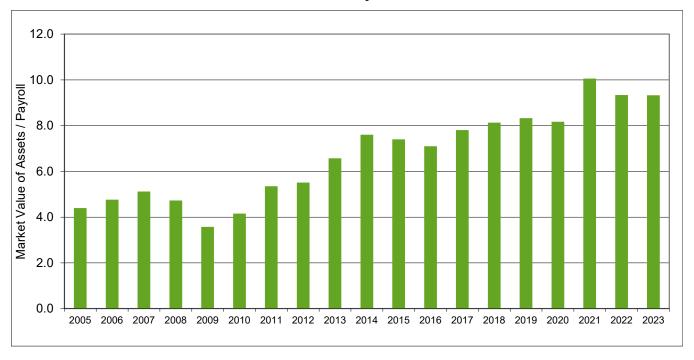
# **Asset and Liability Volatility Ratios**

Asset and Liability Volatility Ratios are a measure of the level of assets (or liabilities) to payroll. In general, a higher ratio means that the SCR is more sensitive to changes in levels of assets or liabilities. Asset and Liability Volatility Ratios are shown in Exhibit 22.

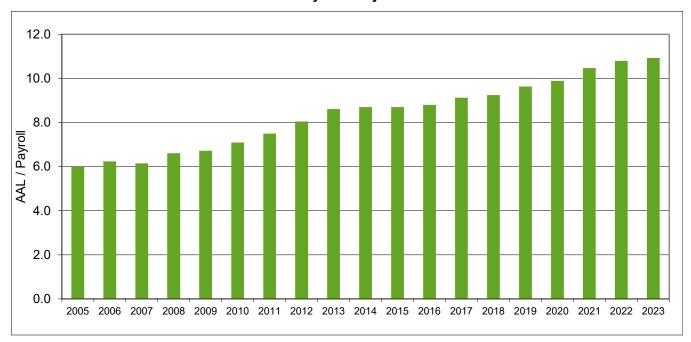
As shown in the table on the first page of this section and in Exhibit 22 (following), in the current valuation SamCERA has an Asset Volatility Ratio of 9.3 and a Liability Volatility Ratio of 10.9.

Exhibit 22
Asset and Liability Volatility Ratios

# **Asset Volatility Ratios**



# **Liability Volatility Ratios**



# Appendix A Actuarial Procedures and Assumptions

The actuarial procedures and assumptions to be used in the June 30, 2023 valuation are described in this section. Except as noted, the assumptions were reviewed and changed as a result of the 2023 Investigation of Experience Study.

The actuarial assumptions used in the valuations are intended to estimate the future experience of the members of SamCERA and of SamCERA itself in areas that affect the projected benefit flow and anticipated investment earnings. Any variations in future experience from that expected from these assumptions will result in corresponding changes in the estimated costs of SamCERA's benefits.

Table A-1 summarizes the assumptions. The mortality rates are taken from the sources listed.

Tables A-2 and A-3 show how members are expected to leave retired status due to death.

Table A-4 presents the probability of refund of contributions upon termination of employment while vested.

Table A-5 presents the expected annual percentage increase in salaries.

Tables A-6 to A-9 present the probabilities a member will leave the system for various reasons.

NOTE: Assumptions for Probation members are assumed to be the same as Safety members unless otherwise noted.

#### **Actuarial Cost Method**

The actuarial valuation is prepared using the entry age actuarial cost method (CERL 31453.5). Under the principles of this method, the actuarial present value of the projected benefits of each individual included in the valuation is allocated as a level percentage of the individual's projected compensation between entry age and assumed exit (until maximum retirement age).

The portion of the actuarial present value of benefits allocated to a valuation year is called the normal cost. The portion of the actuarial present value not provided for at a valuation date by the sum of (a) the actuarial value of the assets, and (b) the actuarial present value of future normal costs is called the Unfunded Actuarial Accrued Liability (UAAL).

# **Funding Method**

The UAAL as of June 30, 2023 is amortized as a level percentage of the projected salaries of present and future members of SamCERA over a 15-year period beginning July 1, 2024. This is commonly referred to as a "closed amortization method". Actuarial gains and losses after the June 30, 2023 valuation are amortized over new closed 15-year periods from the respective dates the new contribution layers are effective.

For each UAAL contribution rate group (General, Safety, and Probation), the UAAL contribution rate is the greater of 1) the UAAL rate under the 15-year layered amortization before reflecting any Supplemental Contribution Accounts (SCAs); and 2) the UAAL contribution rate that was effective July 2023 before reflecting any SCAs. The Statutory Contribution Rate is then set equal to the employer normal cost rate for the Plan plus the greater of 1) and 2) for each UAAL contribution rate group reduced for any offsets from the SCAs as of the current valuation date.

The SCA (CSCA for the County UAAL and DSCA for the SMCM&VCD) offset amounts are calculated using a similar closed amortization method to the UAAL rate described above except that the date of the first layers established were June 30, 2014 (CSCA) and June 30, 2016 (DSCA). Effective with the June 30, 2018 valuation, the DSCA balance is amortized over five years, beginning July 1, 2019. All layers were re-amortized as of June 30, 2018. Due to the relatively small remaining DSCA balance and layers as of June 30, 2023 and the

remaining period of the five-year amortizations, effective with the fiscal year beginning July 1, 2023 the remaining DSCA balance is recognized over a single fiscal year.

#### **Records and Data**

The data used in this valuation consist of financial information and the age, service, and income records for active and inactive members and their survivors. All of the data were supplied by SamCERA and are accepted for valuation purposes without audit.

# **Replacement of Terminated Members**

The ages and relative salaries at entry of future members are assumed to follow a new entrant distribution based on the pattern of current members. Under this assumption, the normal cost rates for active members will remain fairly stable in future years unless there are changes in the governing law, the actuarial assumptions or the pattern of the new entrants.

#### **Growth in Membership**

For benefit determination purposes, no growth in the membership of SamCERA is assumed. For funding purposes, if amortization is required, the total payroll of covered members is assumed to grow due to the combined effects of future wage increases of current active members and the replacement of the current active members by new employees. No growth in the total number of active members is assumed.

#### **Internal Revenue Code Section 415 Limit**

The Internal Revenue Code Section 415 maximum benefit limitations are not reflected in the valuation for funding purposes. Any limitation is reflected in a member's benefit after retirement, except for Plan 7 members which cannot receive benefits in excess of the 415 limit. For Plan 7 members, the benefit levels, combined with the limited compensation are low enough that it is unlikely the 415 limit would apply.

#### Internal Revenue Code Section 401(a)(17)

The Internal Revenue Code Section 401(a)(17) maximum compensation limitation is not reflected in the valuation for funding purposes. Any limitation is reflected in a member's benefit after retirement.

#### **Government Code Section 7522.10**

The maximum compensation limit under Government Code 7522.10 is reflected in the valuation for funding purposes. Any limitation is also reflected in a member's benefit after retirement.

#### **Employer Contributions**

The statutory employer contribution rate is set by the Retirement Board based on actuarial valuations.

#### **Member Contributions**

The member contribution rates vary by entry age (except for Plan 7) and are described in the law. Code references are shown in Appendix B of the valuation report. The methods and assumptions used are detailed later in this section.

The individual member rates by entry age, plan, and class are illustrated in Appendix D of the valuation report.

#### Valuation of Assets

Assets are valued using a modified five-year smoothed method based on the difference between the expected market value and the actual market value of the assets as of the end of each six-month period (12/31 and 6/30). The expected market value is the prior period's market value increased with the net increase in the cash flow of funds, all increased with interest during the period at the expected investment return rate assumption.

Effective June 30, 2018 all deferred gains and losses were combined into a single amount to be recognized over a five-year (10 six-month) period. Beginning with the six-month period immediately following the June 30, 2018 valuation, offsetting of current period gains or losses against prior period gains or losses occur, as follows: to the extent there is a loss for the period, it shall be used to offset any unrecognized gains from prior periods in the order of oldest to most recent. Any remaining loss for the period is recognized over a five-year (10 six-month) period. Similarly, any gain for the period shall be offset against unrecognized losses from prior periods.

The gross preliminary Actuarial Value of Assets is equal to the Market Value of Assets less any of the remaining unrecognized differences. A 20% corridor is then applied, so that the gross Actuarial Value of Assets cannot be greater than 120% of the Market Value of Assets nor less than 80% of the Market Value of Assets.

The Valuation Assets used in the calculation of the SCR are equal to the gross Actuarial Value of Assets less any non-valuation reserves.

# **Investment Earnings and Expenses**

The future investment earnings of the assets of SamCERA are assumed to accrue at an annual rate of 6.25% compounded annually, net of both investment and administrative expenses. This rate was adopted effective June 30, 2021.

#### **CPI Inflation**

The CPI inflation assumption is used in the determination of assumptions for individual salary increases, overall wage growth, and postretirement benefit increases. The CPI inflation assumption is 2.75% per year effective June 30, 2023.

# **Postretirement Benefit Increases**

Postretirement increases are described in Appendix B. Assumed increases for valuation purposes are:

	General	Safety	Probation
Plan 1	2.75%	2.75%	2.75%
Plan 2	2.65%	2.65%	2.65%
Plan 3	0.00%	N/A	N/A
Plans 4, 5, and 7	1.90%	1.90%	1.90%
Plan 6	N/A	1.90%	1.90%

Assumed Plan 1 General and Safety COLAs are set at the CPI inflation assumption of 2.75% per year. Since Plan 2 and Plans 4-7 do not have a COLA bank, it is expected that increases will be limited in some years. This reduces the overall expected rate and is reflected in a lower assumed increase. These rates were adopted effective June 30, 2023.

#### Interest on Member Contributions

The annual credited interest rate on member contributions is assumed to be 6.25% compounded semi-annually (3.125% per six-month period) for an annualized rate of 6.35%. This rate was adopted effective June 30, 2021 for valuation purposes; the change in member crediting is effective July 1, 2022.

#### **Individual Salary Increases**

Salaries increases of individual members are assumed to include the following components: (1) a general wage growth assumption that applies to all members, and (2) an individual-specific increase due to promotion and longevity based on years of service.

The rates of annual salary increase due to promotion and longevity assumed for the purpose of the valuation are illustrated in Table A-5. The general wage growth assumption is 3.25% per year. This includes a 2.75% CPI inflation component and a 0.50% productivity (or "real wage growth") component. This assumption was adopted effective June 30, 2023.

Increases are assumed to occur mid-year. The mid-year timing reflects that salary increases occur throughout the year, or on average mid-year.

SamCERA supplied two types of compensation data:

- 1) pensionable pay from the most recent bi-weekly pay period; and
- 2) pensionable pay from the prior year.

We annualized bi-weekly pay and then used the greater of the two amounts.

Note that if annualized Final Average Compensation (provided by SamCERA) is greater than the above determined amount, then it is used to determine retirement benefits.

#### **Growth in Payroll**

The overall pensionable payroll of SamCERA active members is assumed to increase at 3.25% per annum. This assumption was adopted effective June 30, 2023.

#### **PEPRA Compensation Limit**

The PEPRA compensation limit is assumed to increase in line with the Consumer Prices Index for All Urban Consumers (CPI-U) U.S City Average. We assume that CPI-U will increase at the rate of 2.50% per year.

This assumption was adopted effective June 30, 2023.

# **Social Security Wage Base**

Plan 3 members have their benefits offset by an assumed Social Security Benefit. For valuation funding purposes, we need to project the Social Security Benefit. We assume the current Social Security provisions will continue and the annual Wage Base will increase at the rate of 2.75% per year. Note, statutory provisions describe how to compute a member's offset amount at time of termination or retirement. This assumption was adopted effective June 30, 2023.

#### Retirement

Retirement rates vary by age, service and plan, and are shown in Tables A-7 and A-9.

All General members who attain age 75 and all Safety members who attain age 65 are assumed to retire immediately. Additionally, if a member's benefit is equal to or greater than the 100% of compensation limit, they are also assumed to retire immediately. For purposes of the valuation, immediate retirement is assumed at:

- Age 62 with 38 years of service (General, Plans 1, 2, and 4)
- Age 65 with 41 years of service (General Plan 5)
- Age 67 with 40 years of service (General Plan 7)
- Age 50 with 33 years of service (Safety & Probation, Plans 1, 2, and 4)
- Age 55 with 33 years of service (Safety & Probation Plan 5)
- Age 55 with 38 years of service (Safety & Probation Plan 6)
- Age 57 with 38 years of service (Safety & Probation Plan 7)

Deferred vested members are assumed to retire at the later of current age and:

- Age 58 (General Members, except Plan 3 and Plan 7)
- Age 65 (General Plan 3 Members)
- Age 62 (General Plan 7 Members)
- Age 50 (Probation and Safety members)

The retirement rates were adopted effective June 30, 2023.

#### **Disability**

The rates of disability used in the valuation are shown in Tables A-6 and A-8. The disability rates were adopted effective June 30, 2023.

# Retiree Mortality - Other Than Disabled Members

The same postretirement mortality rates are used in the valuation for active members, deferred members, members retired for service, and beneficiaries. These rates are shown in Table A-2. Beneficiary mortality is assumed to be the same as for healthy members. Beneficiaries are assumed to be of the opposite sex and have the same mortality as General members.

Class	Gender	Proposed Table
General	Male	PubG-2010 (90%) Healthy Retiree Male
General	Female	PubG-2010 (90%) Healthy Retiree Female
Safety	Male	PubS-2010 (90%) Healthy Retiree Male
Safety	Female	PubS-2010 (90%) Healthy Retiree Female

All mortality rates are projected with the MP-2021 Mortality Improvement Scale.

The rates of retired mortality were adopted effective June 30, 2023.

#### **Retiree Mortality - Disabled Members**

For current and future disabled members, the mortality rates used in the valuation are shown in Table A-3.

Class	Gender	Proposed Table
General	Male	PubG-2010 (100%) Disabled Retiree Male *
General	Female	PubG-2010 (100%) Disabled Retiree Female *
Safety	Male	PubS-2010 (100%) Disabled Retiree Male
Safety	Female	PubS-2010 (100%) Disabled Retiree Female

<sup>\*</sup> Disabled General mortality rates are 100% of the standard table at ages 85 and above; 60% at ages 65 and below; and graded from 60% to 100% at 2% per year between age 65 and age 85.

All mortality rates are projected with the MP-2021 Mortality Improvement Scale.

The rates of mortality were adopted effective June 30, 2023.

#### Mortality while in Active Status

For active members, the mortality rates used in the valuation rates are shown in Tables A-6 and A-8.

Class	Gender	Proposed Table
General	Male	PubG-2010 (90%) Employee Male
General	Female	PubG-2010 (90%) Employee Female
Safety	Male	PubS-2010 (90%) Employee Male
Safety	Female	PubS-2010 (90%) Employee Female

All mortality rates are projected with the MP-2021 Mortality Improvement Scale.

Safety members have an additional service-connected mortality rate of 0.01% per year.

These rates were adopted effective June 30, 2023.

#### Other Terminations of Employment

Tables A-6 and A-8 show the rates assumed in this valuation for future termination from active service other than for death, disability or retirement. These rates do not apply to members eligible for service retirement.

Terminating employees may withdraw their contributions immediately upon termination of employment and forfeit the right to further benefits, or they may leave their contributions with SamCERA. Former contributing members whose contributions are on deposit may later elect to receive a refund, may return to work or may remain inactive until becoming eligible to receive a retirement benefit under either SamCERA or a reciprocal retirement system. All terminating members who are not eligible for vested benefits are assumed to withdraw their contributions immediately.

The rates of termination were adopted effective June 30, 2023.

#### **Probability of Refund**

Table A-4 shows the assumed probabilities that vested members will withdraw their contributions and elect a refund immediately upon termination and the probability the remaining members will elect a deferred vested benefit. For Plan 3, 100% of members are assumed to elect a vested benefit. All non-vested members are assumed to elect a refund and withdraw their contributions.

The probability of refund assumptions were adopted effective June 30, 2023.

# **Probability of Eligible Survivor**

For members not currently in pay status, 75% of all males and 55% of all females are assumed to have eligible survivors (spouses or qualified domestic partners). Survivors are assumed to be three years younger than male members and two years older than female members. Survivors are assumed to be of the opposite sex as the member. There is no explicit assumption for children's benefits. We believe the survivor benefits based on this assumption are sufficient to cover children's benefits as they occur.

# Reciprocal Benefits - current active members

Future former members (i.e., those currently active with SamCERA participating employers who are expected to terminate employment in the future but not immediately retire or elect a refund of contributions) are assumed to immediately join a reciprocal agency upon termination of employment at the following rates:

- 100% of General and Safety members who terminate employment before completing five years of service.
- 30% of General members who terminate employment after completing at least five years of service.
- 40% of Safety members who terminate employment after completing at least five years of service.

For future reciprocal members, salaries are assumed to increase at the same rate as if they had remained in active employment with SamCERA participating employers. For current deferred vested members, eligibility is based on the data supplied by SamCERA and future salaries are assumed to increase at 3.77% annually for General members and 4.13% annually for Safety members.

This assumption was adopted effective June 30, 2023.

#### **Part-Time Employees**

For valuation purposes, part-time employees are assumed to continue working the same number of hours in the future.

# **Adjustment to Plan 3 Normal Cost Rate**

Plan 3 members are eligible to transfer to Plans 2, 4 or 5 (depending on entry date) after five years of service. We have adjusted the Plan 3 Normal Cost to account for this. The adjustment is equal to 50% of the difference between the unadjusted Plan 3 Normal Cost rate and the Plan 4 Normal Cost rate.

#### **Member Contribution Rate Assumptions**

The following assumptions summarize the procedures used to compute member contribution rates based on entry age:

In general, the member rate is determined by the present value of the future benefit (PVFB) payable at retirement age, divided by the present value of all future salaries payable between age at entry and retirement age. For these purposes, per the CERL:

- A. The annuity factor used for General members is based on a 33% / 67% blend of the male and female annuity factors using current valuation assumptions and no COLA. For Safety members it is based on a 75% / 25% blend of the male and female annuity factors using current valuation assumptions. The valuation mortality tables use a static projection to 2044.
- B. The annuity factor used in determining the present value of future benefits (PVFB) at entry age is equal to the life only annuity factor at 6.25%.
- C. The Final Compensation is based on the salary paid in the year prior to attaining the retirement age.
- D. Example: For a Plan 4 member who enters at age 54 or earlier, the Final Compensation at retirement (age 55) will be the monthly average of the annual salary for age 54.
- E. For purposes of calculating the value of the member's future contribution, interest is assumed to be credited at 6.25% semiannually (3.125% for each six-month period) for a 6.35% annual rate.
- F. Member Rates are assumed to increase with entry age, except in Plan 7. There are a few exceptions at the higher entry ages where the calculated rate is less than the previous entry age. In these cases the member contribution rate is adjusted so that it is no less than the value for the previous entry age.

Member rates for all Plans 1, 2, 4, 5, and 6 members are loaded to account for a 50% COLA share. The COLA loads are applied to the otherwise applicable basic member rates prior to the addition of any cost-sharing rates.

For Plan 7, the member contribution rate is equal to one-half of the aggregate Normal Cost of the respective plan.

#### **Valuation of Current Deferred Members**

For current deferred members, reciprocal status eligibility is based on the data supplied by SamCERA. These members are assumed to keep their accounts with SamCERA and retire as specified in this section. For these members, future salaries are assumed to increase at 3.77% annually for General members and 4.13% annually for Safety members.

Current vested deferred members without reciprocal status eligibility are assumed to keep their accounts with SamCERA and retire as specified in this section. An adjustment for these individuals such that the greater of the Final Average Compensation and annualized bi-weekly pay limited to two times the Final Average Compensation is used.

Current non-vested deferred members without reciprocal status eligibility are assumed to take a refund of their contributions.

# **Deferred Member Mortality**

Rates of mortality for members after termination from employment and before retirement are the same as Postretirement Mortality – Other Than Disabled Members.

# Table A-1 Summary of Valuation Assumptions as of June 30, 2023

	Economic assumptions					
A.	General wage increases	3.25%				
В.	Investment earnings	6.25%				
C.	Growth in active membership	0.00%				
D.	CPI-U inflation assumption	2.50%				
E.	CPI inflation assumption	2.75%				
	Demographic assumptions					
A.	Salary increases due to service	Table A-5				
А. В.	Salary increases due to service  Service Retirement from active service	Table A-5 Tables A-7 & A-9				
	·					
В.	Service Retirement from active service	Tables A-7 & A-9				
B. C.	Service Retirement from active service  Separation from active service (other than Service Retirement)	Tables A-7 & A-9 Tables A-6 & A-8				
B. C. D.	Service Retirement from active service  Separation from active service (other than Service Retirement)  Probability of refund of contributions upon vested termination  Mortality for active members after termination	Tables A-7 & A-9 Tables A-6 & A-8 Table A-4				

Table A-2
Mortality for Members Retired for Service

General	General	Safety	Safety
Male	Female	Male	Female
0.067%	0.032%	0.055%	0.019%
0.050%	0.022%	0.050%	0.023%
0.065%	0.036%	0.055%	0.032%
0.085%	0.056%	0.063%	0.042%
0.119%	0.086%	0.079%	0.058%
0.176%	0.135%	0.110%	0.078%
0.268%	0.200%	0.173%	0.134%
0.388%	0.257%	0.275%	0.232%
0.554%	0.346%	0.457%	0.401%
0.822%	0.552%	0.793%	0.693%
1.373%	0.957%	1.411%	1.196%
2.404%	1.695%	2.543%	2.066%
4.297%	3.024%	4.593%	3.566%
7.732%	5.585%	8.222%	6.158%
13.205%	10.338%	14.274%	10.634%
	0.067% 0.050% 0.065% 0.085% 0.119% 0.176% 0.268% 0.388% 0.554% 0.822% 1.373% 2.404% 4.297% 7.732%	Male         Female           0.067%         0.032%           0.050%         0.022%           0.065%         0.036%           0.085%         0.056%           0.119%         0.086%           0.176%         0.135%           0.268%         0.200%           0.388%         0.257%           0.554%         0.346%           0.822%         0.552%           1.373%         0.957%           2.404%         1.695%           4.297%         3.024%           7.732%         5.585%	Male         Female         Male           0.067%         0.032%         0.055%           0.050%         0.022%         0.050%           0.065%         0.036%         0.055%           0.085%         0.056%         0.063%           0.119%         0.086%         0.079%           0.176%         0.135%         0.110%           0.268%         0.200%         0.173%           0.388%         0.257%         0.275%           0.554%         0.346%         0.457%           0.822%         0.552%         0.793%           1.373%         0.957%         1.411%           2.404%         1.695%         2.543%           4.297%         3.024%         4.593%           7.732%         5.585%         8.222%

# Notes:

- 1. Mortality rates shown are those applicable for the fiscal year beginning in 2010 (base year).
- 2. Annual projected improvements are assumed in years after 2010 based on mortality improvement scale MP-2021.

Table A-3
Mortality for Members Retired for Disability

	General	General	Safety	Safety
Age	Male	Female	Male	Female
20	0.247%	0.140%	0.121%	0.053%
25	0.167%	0.098%	0.110%	0.065%
30	0.212%	0.154%	0.122%	0.089%
35	0.275%	0.241%	0.138%	0.121%
40	0.387%	0.377%	0.174%	0.164%
45	0.604%	0.591%	0.242%	0.223%
50	0.963%	0.890%	0.353%	0.304%
55	1.268%	1.045%	0.480%	0.461%
60	1.502%	1.174%	0.735%	0.699%
65	1.826%	1.354%	1.186%	1.061%
70	2.731%	2.003%	1.907%	1.610%
75	4.154%	3.202%	3.241%	2.443%
80	6.613%	5.406%	5.598%	3.962%
85	10.815%	9.331%	9.213%	6.842%
90	16.253%	13.665%	15.860%	11.815%

Table A-4
Immediate Refund of Contributions upon Termination of Employment (Excludes Plan 3)

Years of Service	General	Safety
0	80%	60%
1	80%	60%
2	80%	60%
3	80%	60%
4	80%	60%
4	00 /0	00 70
5	23%	25%
6	23%	25%
7	23%	25%
8	23%	25%
9	23%	25%
10	23%	25%
11	15%	25%
12	15%	21%
13	15%	18%
14	15%	15%
15	15%	12%
16	15%	9%
17	15%	6%
18	15%	3%
19	15%	0%
20	15%	0%
21	12%	0%
22	9%	0%
23	6%	0%
24	3%	0%
25	0%	0%
26	0%	0%
27	0%	0%
28	0%	0%
29	0%	0%
30 & Up	0%	0%

Table A-5
Annual Increase in Salary

Years of	Due to Promotio	n and Longevity	Total Annua	I Increase <sup>(1)</sup>	
Service	General	Safety	General	Safety	
<1	6.50%	6.50%	9.96%	9.96%	
1	4.60%	5.00%	8.00%	8.41%	
2	3.50%	4.00%	6.86%	7.38%	
3	2.60%	3.00%	5.94%	6.35%	
4	2.00%	2.30%	5.32%	5.63%	
5	1.60%	1.80%	4.90%	5.11%	
6	1.30%	1.40%	4.59%	4.70%	
7	1.10%	1.25%	4.39%	4.54%	
8	0.95%	1.10%	4.23%	4.39%	
9	0.85%	1.00%	4.13%	4.28%	
10	0.80%	0.95%	4.08%	4.23%	
11	0.75%	0.90%	4.02%	4.18%	
12	0.70%	0.85%	3.97%	4.13%	
13	0.65%	0.85%	3.92%	4.13%	
14	0.60%	0.85%	3.87%	4.13%	
15	0.55%	0.85%	3.82%	4.13%	
16	0.50%	0.85%	3.77%	4.13%	
17	0.50%	0.85%	3.77%	4.13%	
18	0.50%	0.85%	3.77%	4.13%	
19	0.50%	0.85%	3.77%	4.13%	
20 or More	0.50%	0.85%	3.77%	4.13%	

<sup>1.</sup> The total expected increase in salary is the increase due to promotion and longevity, adjusted for assumed 3.25% per annum increases in the general wage. The total result is compounded rather than additive.

# Rates of Separation from Active Service Tables A-6 to A-9

A schedule of the probabilities of termination of employment due to the following causes can be found on the following pages:

Service Retirement: Member retires after meeting age and service requirements for reasons

other than disability.

Withdrawal: Member terminates and elects a refund of member contributions, or a

deferred retirement benefit.

Service Disability: Member receives disability retirement; disability is service related.

Ordinary Disability: Member receives disability retirement; disability is not service related.

Service Death: Member dies before retirement; death is service related.

Ordinary Death: Member dies before retirement; death is not service related.

Each rate represents the probability that a member will separate from service at each age due to the particular cause. For example, a rate of 0.0300 for a member's service retirement at age 50 means we assume that 30 out of 1,000 members who are age 50 will retire at that age.

Each table represents the detailed rates needed for each SamCERA plan by sex:

A-6: Rates of Separation from Active Service (other than Service Retirement) – General members

A-7: Rates of Service Retirement from Active Service - General members

A-8: Rates of Separation from Service (other than Service Retirement) – Safety members

A-9: Rates of Service Retirement from Active Service - Safety members

Table A-6
Rate of Separation from Active Service (other than Service Retirement)
General Plans – Male and Female

	Р	lans 1, 2, 4, 5, 7	1	All Pi			All Plans
	Service	Ordinary	Service	Ordinary	Ordinary Death	Years of	Other
Age	Disability	Disability	Death	Death (Male)	(Female)	Service	Terminations
18	0.00025	0.00015	0.00000	0.00032	0.00012	0	0.15000
19	0.00025	0.00015	0.00000	0.00034	0.00012	1	0.13000
20	0.00025	0.00015	0.00000	0.00033	0.00012	2	0.10500
21	0.00025	0.00015	0.00000	0.00032	0.00011	3	0.08500
22	0.00025	0.00015	0.00000	0.00030	0.00010	4	0.07500
23	0.00025	0.00015	0.00000	0.00028	0.00009	5	0.06700
24 25	0.00025	0.00015	0.00000 0.00000	0.00026	0.00008 0.00008	6 7	0.06000
26	0.00025 0.00025	0.00015 0.00015	0.00000	0.00025 0.00027	0.00008	8	0.05400 0.04900
27	0.00025	0.00015	0.00000	0.00027	0.00009	9	0.04400
28	0.00025	0.00015	0.00000	0.00020	0.00010	10	0.04100
29	0.00025	0.00015	0.00000	0.00031	0.00011	11	0.03800
30	0.00025	0.00015	0.00000	0.00032	0.00012	12	0.03500
31	0.00025	0.00015	0.00000	0.00034	0.00014	13	0.03300
32	0.00025	0.00015	0.00000	0.00036	0.00016	14	0.03100
33	0.00025	0.00015	0.00000	0.00038	0.00017	15	0.02900
34	0.00025	0.00015	0.00000	0.00040	0.00019	16	0.02700
35	0.00025	0.00015	0.00000	0.00042	0.00021	17	0.02500
36	0.00025	0.00015	0.00000	0.00045	0.00023	18	0.02300
37	0.00025	0.00015	0.00000	0.00048	0.00025	19	0.02100
38	0.00025	0.00015	0.00000	0.00051	0.00027	20	0.01900
39	0.00025	0.00015	0.00000	0.00055	0.00030	21	0.01700
40	0.00035	0.00020	0.00000	0.00059	0.00032	22	0.01500
41	0.00045	0.00025	0.00000	0.00064	0.00036	23	0.01400
42	0.00055	0.00030	0.00000	0.00069	0.00039	24	0.01300
43	0.00065	0.00035	0.00000	0.00075	0.00042	25	0.01200
44	0.00075	0.00040	0.00000	0.00081	0.00046	26	0.01100
45	0.00080	0.00055	0.00000	0.00088	0.00050	27	0.01000
46	0.00085	0.00070	0.00000	0.00096	0.00055	28 29	0.01000
47	0.00090	0.00085	0.00000	0.00104	0.00059	30 & Above <sup>(2)</sup>	0.01000
48	0.00095	0.00100	0.00000	0.00114	0.00064	30 & Above	0.01000
49 50	0.00100	0.00105	0.00000	0.00124	0.00069		
50 51	0.00120 0.00140	0.00110	0.00000 0.00000	0.00134	0.00075 0.00081		
52	0.00140	0.00115 0.00120	0.00000	0.00146 0.00158	0.00087		
53	0.00180	0.00120	0.00000	0.00138	0.00087		
54	0.00200	0.00120	0.00000	0.00170	0.00093		
55	0.00200	0.00120	0.00000	0.00197	0.00111		
56	0.00230	0.00120	0.00000	0.00212	0.00120		
57	0.00245	0.00120	0.00000	0.00230	0.00130		
58	0.00245	0.00120	0.00000	0.00248	0.00140		
59	0.00245	0.00120	0.00000	0.00266	0.00153		
60	0.00245	0.00120	0.00000	0.00287	0.00167		
61	0.00245	0.00120	0.00000	0.00310	0.00183		
62	0.00245	0.00120	0.00000	0.00334	0.00200		
63	0.00245	0.00120	0.00000	0.00361	0.00220		
64	0.00245	0.00120	0.00000	0.00390	0.00242		
65	0.00245	0.00120	0.00000	0.00421	0.00266		
66	0.00245	0.00120	0.00000	0.00455	0.00294		
67	0.00245	0.00120	0.00000	0.00493	0.00326		
68	0.00245	0.00120	0.00000	0.00535	0.00360		
69	0.00245	0.00120	0.00000	0.00581	0.00398		
70	0.00245	0.00120	0.00000	0.00633	0.00440		
71	0.00245	0.00120	0.00000	0.00690	0.00487		
72 72	0.00245	0.00120	0.00000 0.00000	0.00753	0.00538		
73 74	0.00245 0.00245	0.00120 0.00120	0.00000	0.00824 0.00901	0.00595 0.00658		
14	0.00240	0.00120	0.00000	0.00901	0.00000		

<sup>1.</sup> General Plan 3 does not provide pre-retirement death or disability benefits. No assumptions are made for disability or service connected death benefits for active members of General Plan 3.

<sup>2. 0.00%</sup> probability of termination with 30 years of service and above for Plans 1, 2, 4, and 5.

# Table A-7 Rates of Service Retirement from Active Service General Plans – Male and Female

		Plans 1, 2, 4		Plans 5, 7			Plan 3
Age	Less than 20 Years of Service	20 to 29 Years of Service	30+ Years of Service	Less than 20 Years of Service	20 to 29 Years of Service	30+ Years of Service	All Years of Service
50	0.02250	0.03600	0.05100	0.01800	0.02880	0.04080	N/A
51	0.02250	0.03600	0.05100	0.01800	0.02880	0.04080	N/A
52	0.02250	0.03600	0.05100	0.01800	0.02880	0.04080	N/A
53	0.03000	0.04800	0.06800	0.02400	0.03840	0.05440	N/A
54	0.03750	0.06000	0.08500	0.03000	0.04800	0.06800	N/A
55	0.07500	0.12000	0.17000	0.06000	0.09600	0.13600	0.03000
56	0.03750	0.06000	0.08500	0.03000	0.04800	0.06800	0.03000
57	0.05625	0.09000	0.12750	0.04500	0.07200	0.10200	0.03000
58	0.07500	0.12000	0.17000	0.06000	0.09600	0.13600	0.03000
59	0.11250	0.18000	0.25500	0.09000	0.14400	0.20400	0.03000
60	0.11250	0.18000	0.25500	0.09000	0.14400	0.20400	0.03000
61	0.15000	0.24000	0.34000	0.12000	0.19200	0.27200	0.06000
62	0.18750	0.30000	0.42500	0.15000	0.24000	0.34000	0.15000
63	0.16500	0.26400	0.37400	0.13200	0.21120	0.29920	0.10000
64	0.16500	0.26400	0.37400	0.13200	0.21120	0.29920	0.15000
65	0.22500	0.36000	0.51000	0.18000	0.28800	0.40800	0.30000
66	0.22500	0.36000	0.36000	0.18000	0.28800	0.40800	0.30000
67	0.22500	0.36000	0.36000	0.27000	0.43200	0.61200	0.30000
68	0.30000	0.36000	0.36000	0.22500	0.36000	0.36000	0.30000
69	0.30000	0.36000	0.36000	0.22500	0.36000	0.36000	0.30000
70	0.30000	0.36000	0.36000	0.22500	0.36000	0.36000	0.40000
71	0.30000	0.36000	0.36000	0.22500	0.36000	0.36000	0.40000
72	0.30000	0.36000	0.36000	0.22500	0.36000	0.36000	0.40000
73	0.30000	0.36000	0.36000	0.22500	0.36000	0.36000	0.40000
74	0.30000	0.36000	0.36000	0.22500	0.36000	0.36000	0.40000
75	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000

#### Notes:

- 1. Rates of retirement are 0% prior to attaining retirement eligibility in their respective plan.
- 2. 100% probability of retirement is assumed as follows:
  - at ages 62 and above with 38 or more years of service for General Plans 1, 2, and 4.
  - at ages 65 and above with 41 or more years of service for General Plan 5.
  - at ages 67 and above with 40 or more years of service for General Plan 7.

Table A-8
Rate of Separation from Active Service (other than Service Retirement)
Safety and Probation – Male and Female

Age	Service Disability	Ordinary Disability	Service Death	Ordinary Death (Male)	Ordinary Death (Female)	Years of Service	Other Terminations
18	0.00100	0.00000	0.00010	0.00033	0.00013	0	0.10000
19	0.00100	0.00000	0.00010	0.00036	0.00014	1	0.08000
20	0.00100	0.00000	0.00010	0.00037	0.00014	2	0.06000
21	0.00100	0.00000	0.00010	0.00037	0.00015	3	0.04500
22	0.00100	0.00000	0.00010	0.00036	0.00015	4	0.03500
23	0.00100	0.00000	0.00010	0.00035	0.00016	5	0.03000
24	0.00100	0.00000	0.00010	0.00034	0.00017	6	0.02600
25	0.00110	0.00000	0.00010	0.00033	0.00018	7	0.02300
26	0.00120	0.00000	0.00010	0.00034	0.00019	8	0.02100
27	0.00130	0.00000	0.00010	0.00035	0.00020	9	0.01900
28	0.00140	0.00000	0.00010	0.00036	0.00022	10	0.01700
29	0.00150	0.00000	0.00010	0.00037	0.00023	11	0.01500
30	0.00165	0.00000	0.00010	0.00037	0.00024	12	0.01350
31	0.00180	0.00000	0.00010	0.00038	0.00025	13	0.01200
32	0.00195	0.00000	0.00010	0.00039	0.00027	14	0.01100
33	0.00210	0.00000	0.00010	0.00040	0.00029	15	0.01000
34	0.00225	0.00000	0.00010	0.00041	0.00031	16	0.00900
35	0.00240	0.00000	0.00010	0.00042	0.00032	17	0.00800
36	0.00255	0.00000	0.00010	0.00044	0.00034	18	0.00700
37	0.00270	0.00000	0.00010	0.00045	0.00037	19	0.00600
38	0.00285	0.00000	0.00010	0.00048	0.00039	20 & Above <sup>(1)</sup>	0.00500
39	0.00300	0.00000	0.00010	0.00050	0.00041		
40	0.00315	0.00000	0.00010	0.00053	0.00044		
41	0.00330	0.00000	0.00010	0.00056	0.00047		
42	0.00345	0.00000	0.00010	0.00060	0.00050		
43	0.00360	0.00000	0.00010	0.00064	0.00053		
44	0.00375	0.00000	0.00010	0.00068	0.00057		
45	0.00390	0.00000	0.00010	0.00074	0.00060		
46	0.00405	0.00000	0.00010	0.00079	0.00064		
47	0.00420	0.00000	0.00010	0.00086	0.00068		
48	0.00435	0.00000	0.00010	0.00092	0.00072		
49	0.00450	0.00000	0.00010	0.00100	0.00077		
50	0.01000	0.00000	0.00010	0.00108	0.00082		
51	0.01200	0.00000	0.00010	0.00116	0.00087		
52	0.01300	0.00000	0.00010	0.00126	0.00093		
53	0.01400	0.00000	0.00010	0.00136	0.00098		
54	0.01500	0.00000	0.00010	0.00146	0.00104		
55	0.02000	0.00000	0.00010	0.00158	0.00111		
56	0.02000	0.00000	0.00010	0.00171	0.00118		
57	0.02000	0.00000	0.00010	0.00185	0.00126		
58	0.02000	0.00000	0.00010	0.00201	0.00133		
59	0.02000	0.00000	0.00010	0.00219	0.00142		
60	0.01750	0.00000	0.00010	0.00238	0.00151		
61	0.01750	0.00000	0.00010	0.00259	0.00160		
62	0.01750	0.00000	0.00010	0.00284	0.00171		
63	0.01750	0.00000	0.00010	0.00310	0.00182		
64	0.01750	0.00000	0.00010	0.00338	0.00194		

<sup>1. 0.00%</sup> probability of termination with 20 years of service and above for all Safety/Probation plans except Plan 7.

# Table A-9 Rates of Service Retirement from Active Service Safety and Probation – Male and Female

Plans 1, 2, 4 Plans 5, 6, 7 Less than 15 to 19 20 to 24 25+ Less than 15 to 19 20 to 24 25+ 15 Years of Years of Years of Years of 15 Years of Years of Years of Years of **Service** Service Service Service Service Service Service Service Age 45 0.00000 0.00000 0.05000 0.07500 0.00000 0.00000 0.04000 0.06000 0.00000 46 0.00000 0.00000 0.05000 0.07500 0.00000 0.04000 0.06000 47 0.00000 0.00000 0.05000 0.07500 0.00000 0.00000 0.04000 0.06000 48 0.00000 0.00000 0.05000 0.07500 0.00000 0.00000 0.04000 0.06000 49 0.00000 0.00000 0.20000 0.30000 0.00000 0.00000 0.16000 0.24000 50 0.13000 0.19500 0.26000 0.39000 0.10400 0.15600 0.20800 0.31200 51 0.13000 0.19500 0.26000 0.39000 0.10400 0.15600 0.20800 0.31200 52 0.13000 0.19500 0.26000 0.39000 0.10400 0.15600 0.20800 0.31200 53 0.13000 0.19500 0.26000 0.39000 0.10400 0.15600 0.20800 0.31200 54 0.13000 0.19500 0.26000 0.39000 0.10400 0.15600 0.20800 0.31200 0.13000 55 0.19500 0.26000 0.39000 0.10400 0.15600 0.20800 0.31200 0.13000 56 0.19500 0.26000 0.39000 0.10400 0.15600 0.20800 0.31200 57 0.16000 0.24000 0.24000 0.32000 0.48000 0.16000 0.32000 0.48000 58 0.16000 0.24000 0.32000 0.48000 0.16000 0.24000 0.32000 0.48000 59 0.13000 0.19500 0.26000 0.39000 0.13000 0.19500 0.26000 0.39000 60 0.20000 0.30000 0.40000 0.60000 0.20000 0.30000 0.40000 0.60000 0.20000 0.30000 0.40000 0.60000 0.30000 0.40000 61 0.20000 0.60000 62 0.20000 0.30000 0.40000 0.60000 0.20000 0.30000 0.40000 0.60000 63 0.20000 0.30000 0.40000 0.60000 0.20000 0.30000 0.40000 0.60000 64 0.20000 0.30000 0.40000 0.60000 0.20000 0.30000 0.40000 0.60000

1.00000

1.00000

1.00000

1.00000

1.00000

#### Notes:

65

1.00000

1. Rates of retirement are 0% prior to attaining retirement eligibility in their respective plan.

1.00000

2. 100% probability of retirement is assumed as follows:

1.00000

- with 33 or more years of service for Safety and Probation Plans 1, 2, and 4.
- at ages 55 and above with 33 or more years of service for Safety and Probation Plan 5.
- at ages 55 and above with 38 or more years of service for Safety and Probation Plan 6.
- at ages 57 and above with 38 or more years of service for Safety and Probation Plan 7.

# Appendix B Summary of Benefit Provisions

All actuarial calculations are based on our understanding of the statutes governing the SamCERA as contained in the County Employees Retirement Law (CERL) of 1937, with provisions adopted by the SamCERA Board, effective through June 30, 2023. The benefit and contribution provisions of this law are summarized briefly below, along with corresponding references to the Code Section. This summary does not attempt to cover all the detailed provisions of the law.

#### MEMBERSHIP IN RETIREMENT PLANS

The County has established 12 defined benefit plans based on a member's date of entry into SamCERA. Plans 1, 2, 4, 5, 6, and 7 are open to all members depending on their date of entry. Only General members are eligible for Plan 3.

Government Code Section

Employees of the SMCM&VCD are eligible for participation in all General retirement plans, except for Plans 3 and 5.

- Plan 1: Employees hired on or before July 5, 1980.
- **Plan 2:** Employees hired after July 5, 1980 but on or before July 12, 1997.
- Plan 3: General members hired on or before December 22, 2012 may have elected to participate in Plan 3. After five years of service, Plan 3 members can elect membership under the open eligible contributory plan. Members currently working in a contributory plan with Plan 3 service may purchase an upgrade of their Plan 3 service.

(31496)

- Plan 4: Employees hired after July 12, 1997 and before August 7, 2011 (General members, except Plan 5 transfers; see below); before July 10, 2011 (Probation members); and before January 8, 2012 (Safety members).
- Plan 5: General members hired on or after August 7, 2011, and Deputy Sheriffs hired on or after January 8, 2012. Probation members hired on or after July 10, 2011 and Safety members (except Deputy Sheriffs) may elect this Plan. Members must be first hired before January 1, 2013 to be eligible to elect this Plan.

After 10 years of service, General Plan 5 members can elect to transfer to Plan 4 and must pay the total actuarial equivalent cost of the increase in past service benefits at the date of transfer.

- Plan 6: Probation members hired on or after July 10, 2011 and Safety members (except Deputy Sheriffs) may elect this Plan. Members must be first hired before January 1, 2013 to be eligible to elect this Plan.
- **Plan 7:** Employees first hired on or after January 1, 2013.

#### **MEMBER CONTRIBUTIONS**

Basic:

Plans 1, 2, 4, 5, and 6:

Contributions are based on the entry age and class of each member and are required of all members. See section 5 for details on this calculation. Current

member rates are shown in Appendix D.

Basic contributions cease when general members are credited with 30 years (31625.2, of service in a contributory plan provided they were members of SamCERA 31664.1)

or a reciprocal system on March 7, 1973, and continuously thereafter. All Safety members are eligible for the 30-year cessation of contributions.

**Plan 7:** Members contribute 50% of the aggregate Normal Cost rate for their Plan.

**Plan 3:** No member contributions are required under Plan 3.

Cost-of-Living:

Plans 1, 2, and 4:

All members of Plans 1, 2 and 4 contribute 50% of the cost of COLA benefits

in addition to other current member rates and cost sharing, except as

described in the following paragraph.

Members of SMCM&VCD do not contribute towards the COLA benefit.

Plans 5 and 6: All members of Plans 5 and 6 contribute 50% of the cost of the COLA.

**Plan 7:** Members contribute 50% of the aggregate Normal Cost rate for their Plan.

**Cost Sharing:** 

**General** All members of Plans 1, 2, and 4 (except SMCM&VCD) contribute an

**Members:** additional 3.0% for cost sharing.

All other General members do not participate in cost sharing.

(31678.2)

# **MEMBER CONTRIBUTIONS** (Continued)

Safety Deputy Sheriffs in Plans 1, 2, 4, and 5 contribute the following additional cost Members: sharing rates based on age and service:

> 4.5% If age 45 or older

If age is less than 45

Service is less than 5 years: 3.0% Service between 5 and 15 years: 3.5% Service is more than 15 years: 4.5%

Safety members (except Deputy Sheriffs) in Plans 1, 2, and 4 contribute an additional 5.0% cost sharing.

Safety members (except Deputy Sheriffs) in Plan 5 contribute an additional 4.0% cost sharing.

Safety members in Plan 6 and 7 do not participate in cost sharing.

**Probation** Members of Plans 1, 2, 4, and 5 contribute an additional 3.5% for cost Members:

sharing.

Crediting:

Members of Plans 6 and 7 do not participate in cost sharing.

Interest is credited to contributions semiannually on June 30 and (31591, 31700)Interest

December 31 at an interest rate set by the Board of Retirement on amounts

that have been on deposit for at least six months.

Effective with the first pay period in July 2016, no employer provides for **Employer** 

Pick-Up: employer pick-up contributions.

#### **EMPLOYER CONTRIBUTIONS**

The employer (County, Courts, or District) contributes to the retirement fund a percent of the total compensation provided for all members based on an actuarial valuation and the recommendation of the actuary.

(31453, 31453.5, 31453.6, 31454 31581)

#### SERVICE RETIREMENT ALLOWANCE

Eligibility:
--------------

General Members:

All members of Plans 1, 2, 4, and 5 are eligible to retire after meeting one of the following age and service requirements:

- Age 50 with 10 years of service\*;
- Any age with 30 years of service; or
- Age 70 regardless of service.

Plan 3 members are eligible to retire at age 65 with 10 years of service. A (31496) reduced benefit is also payable at age 55 with 10 years of service.

Plan 7 members are eligible to retire at age 52 with 5 years of service.

\* For part-time employees, age 50 is replaced with age 55. (31672.1)

Safety and Probation Members:

Members of all plans except Plan 7 are eligible to retire after meeting one of the following age and service requirements:

- Age 50 with 10 years of service;
- Any age with 20 years of service.

Plan 7 members are eligible to retire at age 50 with 5 years of service.

## Final Average

Compensation: Plans 1 and 2:

Monthly average of a member's highest 12 consecutive months of (31462.1)

compensation.

**All other Plans:** Monthly average of a member's highest compensation during any three [31462,

years. Years do not have to be consecutive, except for Plan 7. 31496.3(d)]

## **Compensation**

<u>Limit:</u>

All Plans, except Plan 7:

The amount of compensation that is taken into account in computing benefits (31671) payable to any person who first becomes a member on or after July 1, 1996,

shall not exceed the dollar limitations in Section 401(a)(17) of Title 26 of the

US Code.

## SERVICE RETIREMENT ALLOWANCE (Continued)

#### Plan 7:

The amount of compensation taken into account shall not exceed the following applicable percentage of the Social Security Taxable Wage Base:

- 100% for a member covered by Social Security (County and Courts General members);
- 120% for a member not covered by Social Security (all other members).

The amount of compensation taken into account shall be adjusted based on changes in the Consumer Price Index for All Urban Consumers. Adjustments shall be effective annually on January 1.

# Monthly Allowance:

and 5:

Plans 1, 2, 4,

1/60 x Final Average Compensation x General age factor x years of service.

Plans 1, 2 & 4 (31676.1) –

Plan 5

(31676.14) -

Safety & Probation members:

General members:

3% x Final Average Compensation x Safety age factor x years of service.

(31664.1) – Plans 1, 2 & 4

(31664.2) – Plan 5

Plan 6: Safety & Probation members:

2% x Final Average Compensation x Safety age factor x years of service.

Plan 7: General members:

7522.20(a)

(31664)

2% x Final Average Compensation x General age factor x years of service.

Safety and Probation members:

7522.25(d)

2% x Final Average Compensation x Safety age factor x years of service.

## Plan 3: General members: (a)+(b)-(c) where:

(31496)

- (a) 2% x Final Average Compensation x (Years of Service, up to 35 years), plus
- (b) 1% x Final Average Compensation x Years of Service in excess of 35 (up to 10 years)
- (c) Estimated Primary Insurance Amount (PIA) x Years of Covered Service (up to 35 years) divided by 35.

The PIA is calculated based on certain assumptions specified by statute, and an assumed Social Security retirement age of 65.

If retirement occurs prior to age 65, benefit amount is adjusted by an actuarial equivalent factor (see Sample Plan Age Factors).

## **SERVICE RETIREMENT ALLOWANCE** (Continued)

## Percentage of Final Average Compensation at Sample Ages:

Plan	Age 50	Age 55	Age 60	Age 65	
County General Plans 1, 2, & 4	1.475%	1.948%	2.440%	2.611%	(31676.14)
General Plan 3*	N/A	0.780%	1.220%	2.000%	(31496)
General Plan 5	1.182%	1.492%	1.917%	2.432%	(31676.1)
General Plan 7	N/A	1.300%	1.800%	2.300%	(7522.20(a))
SMCM&VCD Plans 1, 2, & 4	1.475%	1.948%	2.440%	2.611%	(31676.14)
SMCM&VCD Plan 7	N/A	1.300%	1.800%	2.300%	(7522.20(a))
Safety/Probation Plans 1, 2, & 4	3.000%	3.000%	3.000%	3.000%	(31664.1)
Safety/Probation Plan 5	2.290%	3.000%	3.000%	3.000%	(31664.2)
Safety/Probation Plan 6	2.000%	2.620%	2.620%	2.620%	(31664)
Safety/Probation Plan 7	2.000%	2.500%	2.700%	2.700%	(7522.25(d))

<sup>\*</sup> Prior to reduction for PIA benefit. Actual percentage will be less.

#### **Maximum**

Allowance: Allowance may not exceed 100% of Final Average Compensation.

All Plans Except 3:

Plan 3: The sum of the normal retirement allowance and the estimated PIA cannot (31496)

exceed 70% of Final Average Compensation for a member with 35 or less years of service, and cannot exceed 80% of Final Average Compensation if

service exceeds 35 years.

## **SERVICE RETIREMENT ALLOWANCE** (Continued)

## **Unmodified Retirement Allowance (Normal Form):**

All Plans	Life Annuity payable to retired member with 60% continuance to an eligible	(31760.1)

**Except 3:** survivor (or eligible children).

Plan 3: Life Annuity payable to retired member with 50% continuance to an eligible (31497.71)

survivor (or eligible children).

Eligible survivor includes certain domestic partners. (31780.2)

## **Optional Retirement Allowance:**

A member may elect to have the actuarial equivalent of the service or disability retirement allowance applied to a lesser retirement allowance during the retired member's life in order to provide an optional survivor allowance.

**Option 1:** Member's allowance is reduced to pay a cash refund of any unpaid annuity (31761)

payments (up to the amount of the member's contributions at retirement) to the member's estate or to a beneficiary having an insurable interest in the

life of the member.

**Option 2:** 100% of member's reduced allowance is payable to an eligible survivor or (31762)

beneficiary having an insurable interest in the life of the member.

**Option 3:** 50% of member's reduced allowance is payable to an eligible survivor or (31763)

beneficiary having an insurable interest in the life of the member.

**Option 4:** Other % of member's reduced allowance is payable to an eligible survivor or (31764)

beneficiary(ies) having an insurable interest in the life of the member.

For Options 2, 3 or 4, the continuance will not be paid if the member revokes their election and (31782)

names another beneficiary after retirement.

All Allowances: All allowances are made on a pro rata basis (based on the number of days in (31600)

that month) if not in effect for the entire month of retirement. For deaths that

occur mid-month, the full month's payment is made.

#### SERVICE-CONNECTED DISABILITY RETIREMENT ALLOWANCE

Eligibility:

All Plans Any age or years of service; disability must result from occupational injury or

Except 3: disease, and member must be permanently incapacitated for the

performance of duty.

(31720,31720.5.

31720.6,

31720.7, 31720.9)

Plan 3: Not available under Plan 3. (31487)

Greater of (1) 50% of Final Average Compensation or (2) the service Monthly

Allowance: retirement allowance, if eligible to retire. (31727.4)

Life Annuity with 100% continuance to a surviving spouse (or eligible **Normal Form** 

(31760, 31786)

Of Payment: children).

#### NONSERVICE-CONNECTED DISABILITY RETIREMENT ALLOWANCE

**Eligibility:** 

All Plans Except 3: Any age with five years of service and permanently incapacitated for

(31720, 31836)

the performance of duty.

Not available under Plan 3. Plan 3:

(31487)

**Monthly Allowance:** 

The monthly allowance is equal to a service retirement allowance if

the member is eligible to retire, otherwise allowance equals (a) or

(31726,31726.5)

(b) where:

**General Members:** 

(a) 90% of 1/60th of Final Average Compensation x years of

service, if member must rely on service in another retirement

system in order to be eligible to retire, or allowance exceeds 1/3

(31727(a))

of Final Average Compensation.

(b) 90% of 1/60th of Final Average Compensation x years of service projected to age 65, not to exceed 1/3 of Final Average (31727(b))

Compensation.

Safety Members: 1/60 is replaced by 1/50 and age 65 is replaced by age 55 in (a) and

(31727.2)

(31760.1)

(b) above.

**Normal Form Of** Payment:

children).

Life Annuity with 60% continuance to a surviving spouse (or eligible

#### **SERVICE-CONNECTED DEATH BENEFITS**

**Eligibility** 

All Plans Except 3: Active members who die in service as a result of injury or disease

(31787)

arising out of and in the course of employment.

Plan 3: Not available under Plan 3.

(31487)

(31787)

**Monthly Allowance:** An annual death allowance is payable monthly to an eligible survivor

(or eligible children) equal to 50% of the member's Final Average

Compensation.

## **Optional Combined Benefit:**

(31781.3)

In lieu of the monthly allowance above, an eligible survivor may elect:

- (a) A lump sum equal to 1/12 of the compensation earned in the preceding 12 months x years of service (benefit not to exceed 50% of the 12 months' compensation), plus
- (b) A monthly payment equal to 50% of the member's Final Average Compensation, reduced by a monthly amount, which is the actuarial equivalent of (a) above based on the age of eligible survivor.

#### **Death Benefit (Lump Sum):**

(31781)

The member's normal contributions and interest, plus 1/12 of the compensation earned in the preceding 12 months x years of service (benefit not to exceed 50% of the 12 months' compensation).

#### **Additional Allowance for Children:**

(31787.5)

25% of death allowance (whether or not the monthly allowance or combined benefit is chosen) for one child, 40% for two children, and 50% for three or more children.

## Additional Amount for Spouse of Safety Member:

(31787.6)

An eligible survivor of a Safety member is also entitled to receive a lump sum death benefit equal to 12 x monthly rate of compensation at the time of member's death in addition to all other benefits.

Note: For valuation purposes, an unmarried member is assumed to take the lump sum benefit. A married member is assumed to take the monthly allowance or the lump sum, whichever is more valuable.

## **NONSERVICE-CONNECTED DEATH BENEFITS**

**Eligibility**:

All Plans Except 3: Active members who die while in service or while physically or

(31780)

mentally incapacitated for the performance of duty.

Plan 3: Not available under Plan 3.

#### Death Benefit (Lump Sum):

(31781)

The member's normal contributions and interest, plus 1/12 of the Compensation earned in preceding 12 months x the number of completed years of service (benefit not to exceed 50% of the 12 months' compensation).

#### **Optional Death Benefit:**

In lieu of the lump sum death benefit, several optional death benefits are available to provide flexibility to survivors, as follows.

## First Optional Death Benefit:

(31781.1)

If a member who would have been entitled to a nonservice-connected disability retirement allowance dies prior to retirement as a result of such disability, the eligible survivor (or eligible children) may elect to receive an optional death allowance equal to 60% of the monthly retirement allowance to which the member would have been entitled as of the date of death.

#### **Second Optional Death Benefit:**

(31781.2,

If a member dies prior to reaching the minimum retirement age but has 10 or more years of service, an eligible survivor (or eligible children) may elect to leave the amount of the death benefit on deposit until the earliest date the member could have retired and at that time receive the allowance provided for in 31765.2 (a 60% continuance).

31765.2)

#### Third Optional Death Benefit:

An eligible survivor of a member who dies after five years of service may elect a combined benefit equal to:

(a) A lump sum equal to 1/12 of the compensation earnable in the preceding 12 months x the number of completed years of service (benefit not to exceed 50% of the 12 months' compensation), plus

(31781.3)

(b) A monthly payment equal to 60% of the monthly retirement allowance to which the member would have been entitled if the member retired or had been retired for a nonservice-connected disability as of the date of death, reduced by a monthly amount which is the actuarial equivalent of (a) above based on the age of the eligible survivor. (31781.1)

## NONSERVICE-CONNECTED DEATH BENEFITS (Continued)

#### **Fourth Optional Death Benefit:**

If a member dies while eligible for a service retirement and the eligible survivor is designated (31765.1) as beneficiary, the spouse (or eligible children) may elect to receive 60% of the monthly retirement allowance to which the member would have been entitled as of the date of death.

or the

Note for Third and Fourth Optional Death Benefits: In order to leave the eligible survivor the greatest benefit, the member is assumed to have retired for nonservice-connected disability, elected the Option 2 retirement allowance, and then died the next day.

#### Fifth Optional Death Benefit:

If a member dies while eligible for a service retirement and the eligible survivor is designated as beneficiary and survives the member by not less than 30 days the spouse (or eligible children) may elect to receive the same retirement allowance as the spouse would have received had the member retired on the date of death and selected Option 3.

Note: For valuation purposes, an unmarried member is assumed to take the lump sum benefit. A married member is assumed to receive an annuity or a lump sum, whichever is more valuable. The annuity is equal to the Option 2-100% Continuance calculation for the larger of either (1) a non-service connected disability benefit or (2) the member's earned service retirement benefit (if eligible).

#### **DEFERRED RETIREMENT BENEFITS**

**Eligibility:** 

All Plans, except Plans 3 and 7:

Age 50 with 10 years of membership.

(31700)

Member contributions must be left on deposit (except Plan 3) and the member must have terminated with five years of service or entered a reciprocal agency. Members are eligible for service retirement when they would have reached eligibility if they would

have remained in an active position.

Plan 3: Age 55 with 10 years of service.

(31496)

Plan 7: General members:

Age 52 with 5 years of service.

Safety and Probation members:

Age 50 with 5 years of service.

All Plans: Member contributions must be left on deposit and the member

must have terminated with 5 years of service or entered a reciprocal agency. Members (except for Plan 7) are eligible for service retirement when they would have reached eligibility if they

would have remained in an active position.

**Monthly Allowance:** 

All Plans Except 3: Same as service retirement allowance; payable any time after the

(31703, 31704,

member would have been eligible for service retirement.

31705)

If a terminated member dies before the effective date of the deferred retirement allowance, the member's accumulated

contributions are paid to the estate or to the named beneficiary.

(31702) (31496)

Plan 3: Same as service retirement allowance at normal retirement age 65

or in an actuarially equivalent reduced amount at early retirement,

after age 55.

No benefit is paid for death while inactive.

## **COST-OF-LIVING INCREASES**

Other Plans:

Cost-of-living increases (or decreases) are applied to all retirement allowances (service and disability), optional death allowances, and annual death allowances effective April 1, based on changes in the Consumer Price Index (CPI) from the previous January 1 to the current January 1, to the nearest ½ of 1%.								
Plan 1:	Plan 1: General & Safety  Members (and their beneficiaries) are limited to a maximum 5% cost-of-living increase.							
	<b>Probation</b> Members (and their beneficiaries) are limited to a maximum 3% cost-of-living increase.	(31870.1)						
Plan 2:	<b>All members</b> Members (and their beneficiaries) are limited to a maximum 3% cost-of-living increase.	(31870.1)						
Plan 3:	Plan 3 does not have a COLA.	(31487)						
Other Plans:	<b>All members</b> Members (and their beneficiaries) are limited to a maximum 2% cost-of-living increase.	(31870)						
COLA Bank Plan 1:	When the CPI exceeds the applicable percentage (3% or 5%), the difference between the actual CPI and the maximum cost-of-living increase given in any year is credited to the COLA Accumulation (COLA Bank). It may be used in future years to provide cost-of-living increases when the CPI falls below the applicable percentage.	(31870.1, 31870.2)						

All other plans do not have a COLA bank.

(31874.4)

## Appendix C Valuation Data and Schedules

Data on SamCERA membership as of June 30, 2023 was supplied to us by SamCERA staff. On the following table, Exhibit C-1, we present a summary of SamCERA membership at June 30, 2023 for active members. Similar information is shown in Exhibit C-2 for inactive members and Exhibits C-3a and C-3b for retired members.

Note that salary amounts shown are annualized amounts based on the biweekly pay for the period prior to the valuation date. If the annualized amount was less than the total prior year earnings, total prior year earnings were used.

Additional statistical data on both active and retired members is shown in the following tables.

Exhibit C-4: Age, Service, Compensation Distribution of Active Members

Exhibit C-5: Age, Retirement Year, Benefit Amount and Plan Distribution of Retired Members

Exhibits C-4 and C-5 are shown for all plans combined as well as for classification separately.

Exhibit C-1
SamCERA Membership – Active Members as of June 30, 2023

	Total Number	Annual Salary		Average Age	Average Monthly Salary		Average Credited Service			
General Memi	bers									
Plan 1	2	\$	458,864	72.5	\$	19,119	46.3			
Plan 2	223		31,866,089	57.7		11,908	29.4			
Plan 3	37		4,121,558	55.7		9,283	19.2			
Plan 4	1,396		187,004,107	51.6		11,163	18.4			
Plan 5	247		35,491,120	48.8		11,974	7.9			
Plan 7	2,822		295,621,779	40.4		8,730	4.3			
Total	4,727	\$	554,563,518	45.1	\$	9,777	9.9			
Safety Membe	Safety Members									
Plan 1	-	\$	-	-	\$	-	-			
Plan 2	10		2,053,426	54.9		17,112	25.1			
Plan 4	142		27,010,585	48.5		15,851	17.8			
Plan 5	70		12,917,102	43.7		15,378	7.8			
Plan 7	239		34,992,366	36.7		12,201	5.2			
Total	461	\$	76,973,479	41.8	\$	13,914	9.9			
Probation Me	mbers									
Plan 1	-	\$	-	-	\$	-	-			
Plan 2	2		280,768	53.5		11,699	29.4			
Plan 4	95		13,003,345	46.9		11,406	19.2			
Plan 5	8		1,058,261	39.8		11,024	10.7			
Plan 6	-		-	-		- 0.704	-			
Plan 7	41 146	\$	4,818,806 19,161,180	36.2 43.6	\$	9,794 10,937	6.7 15.4			
Total	140	Ф	19, 101, 180	43.0	Ф	10,937	15.4			
Grand Total	5,334	\$	650,698,177	44.8	\$	10,166	10.1			

Exhibit C-2
SamCERA Membership – Inactive Members as of June 30, 2023

_	Deferred Vested Number	Deferred Vested Average Age	Contingent Vested Number	Contingent Vested Average Age
General Members				
Plan 1	4	66.8	_	-
Plan 2	172	58.7	2	56.0
Plan 3	67	60.4	-	-
Plan 4	694	49.1	85	48.5
Plan 5	108	44.8	26	44.9
Plan 7	368	40.2	711	39.9
Total	1,413	48.2	824	41.0
Safety Members				
Plan 1	-	-	_	-
Plan 2	6	60.8	-	-
Plan 4	31	46.9	5	52.4
Plan 5	10	43.0	-	-
Plan 7	35	34.0	30	37.1
Total _	82	42.0	35	39.3
Probation Members				
Plan 1	_	_	_	_
Plan 2	10	54.1	-	-
Plan 4	40	47.6	1	38.0
Plan 5	-	-	1	43.0
Plan 6	-	-	-	-
Plan 7	6	36	12	33.3
Total	56	47.6	14	34.3
Grand Total	1,551	47.8	873	40.8

Exhibit C-3a
SamCERA Membership – Retired Members as of June 30, 2023

	Number	Average Age	Monthly Allowance	Average Monthly Benefit		
_	Number	Average Age	Allowalice	1410	ntiny Benefit	
General Memb	ers					
Plan 1	1,110	81.4	\$ 5,210,280	\$	4,382	
Plan 2	2,292	71.3	9,570,860		4,049	
Plan 3	124	73.8	230,502		618	
Plan 4	1,272	67.2	3,459,523		2,692	
Plan 5	41	62.3	72,011		1,675	
Plan 7	55	65.2	69,200		1,236	
Total	4,894	72.5	\$ 18,612,376	\$	3,803	
Safety Membe	rs					
Plan 1	250	78.1	\$ 1,997,298	\$	7,957	
Plan 2	269	64.2	2,426,711		8,922	
Plan 4	181	59.0	971,628		5,281	
Plan 5	9	58.2	27,067		3,007	
Plan 7	9	61.0	19,621		2,180	
Total	718	67.6	\$ 5,442,324	\$	7,580	
Probation Men	mbers					
Plan 1	86	80.3	\$ 408,687	\$	4,541	
Plan 2	123	63.3	772,170		5,555	
Plan 4	110	57.0	575,285		4,834	
Plan 7	1	59.0	2,168		2,168	
Total	320	65.7	\$ 1,758,309	\$	5,495	
Grand Total	5,932	71.5	\$ 25,813,010	\$	4,351	

Exhibit C-3b
SamCERA Membership – Retired Members as of June 30, 2023
Subtotaled by Class and Retirement Type

Plan	Retirement Type	Number		Monthly Benefit	_	Average Monthly Benefit
General Plans:						
	Healthy	3,965	\$	16,056,635	\$	3,711
	Disabled	359		1,230,318		3,343
	Beneficiaries	570		1,325,424		2,155
	Total	4,894	\$	18,612,376	\$	3,803
Safety Plans:						
	Healthy	462	\$	3,980,980	\$	8,543
	Disabled	130		911,193		6,903
	Beneficiaries	126		550,152	_	4,332
	Total	718	\$	5,442,324	\$	7,580
Probation Plans:						
	Healthy	273	\$	1,568,457	\$	5,317
	Disabled	19		110,280		4,595
	Beneficiaries	28		79,572		2,652
	Total	320	\$	1,758,309	\$	5,495
Grand Totals						
	Healthy	4,700	\$	21,606,071	\$	4,597
	Disabled	508		2,251,790		4,433
	Beneficiaries	724	_	1,955,148	_	2,700
	Total	5,932	\$	25,813,010	\$	4,351

Exhibit C-4

Age & Service Distribution of Active Members by Count and Average Compensation as of June 30, 2023 – All Members

Count	]									
					ears of Servi					Total
Age	0-1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35&Over	Count
Under 25	36	23	0	0	0	0	0	0	0	59
25-29	124	213	30	0	0	0	0	0	0	367
30-34	122	349	223	14	0	0	0	0	0	708
35-39	82	241	342	84	38	0	0	0	0	787
40-44	51	161	250	112	146	31	0	0	0	751
45-49	42	116	170	93	192	137	13	0	0	763
50-54	37	92	128	93	160	164	70	10	0	754
55-59	30	72	95	46	115	111	66	34	11	580
60-64	16	52	77	38	70	67	28	21	8	377
65 & Over	11	23	37	33	35	17	10	11	11	188
Total Count	551	1,342	1,352	513	756	527	187	76	30	5,334
Compensation	]									
_					ears of Servi					Average
Age	0-1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35&Over	Comp.
Under 25	\$73,181	\$84,318	-	-	-	-	-	-	-	\$77,523
25-29	86,858	100,952	112,030	-	-	-	-	-	-	97,095
30-34	93,347	102,032	119,457	123,606	-	-	-	-	-	106,450
35-39	102,006	108,547	120,228	135,581	121,084	-	-	-	-	116,433
40-44	109,683	113,387	121,971	143,103	139,160	123,387	-	-	-	125,848
45-49	101,816	111,705	121,328	143,921	139,353	144,048	121,324	-	-	130,160
50-54	107,572	109,601	121,798	161,085	136,490	142,023	143,152	128,225	-	134,042
55-59	104,771	111,058	121,204	144,234	134,632	151,585	139,854	153,512	144,528	133,856
60-64	93,910	112,209	115,976	127,003	123,595	123,135	132,039	139,117	131,674	121,134
65 & Over	105,776	130,848	127,488	142,313	127,360	132,230	187,404	135,109	149,428	134,553
Avg. Annual Compensation	\$95,857	\$106,817	\$120,553	\$143,605	\$135,059	\$140,750	\$141,173	\$143,544	\$142,897	\$121,991

Count

Exhibit C-4a

Age & Service Distribution of Active Members by Count and Average Compensation as of June 30, 2023 – General Members

Count				v	ears of Servi					Total
Age	0-1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35&Over	Count
Under 25	35	20	0	0	0	0	0	0	0	55
25-29	118	179	23	0	0	0	0	0	0	320
30-34	116	316	160	8	0	0	0	0	0	600
35-39	79	227	295	66	29	0	0	0	0	696
40-44	47	149	227	87	114	26	0	0	0	650
45-49	40	112	158	81	160	97	10	0	0	658
50-54	32	86	122	73	143	140	63	10	0	669
55-59	29	64	84	39	106	103	59	32	11	527
60-64	16	51	76	33	69	66	27	21	8	367
65 & Over	11	23	36	31	35	17	10	11	11	185
Total Count	523	1,227	1,181	418	656	449	169	74	30	4,727
Compensation	]				·					<b>A</b>
A = a	0-1	1-4	5-9	10-14	ears of Servi	20-24	25-29	30-34	35&Over	Average Comp.
Age	0-1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	33&Ovei	Comp.
Under 25	\$71,379	\$76,834	-	-	-	-	-	-	-	\$73,363
25-29	85,368	93,309	101,216	-	-	-	-	-	-	90,949
30-34	91,025	98,948	108,770	105,500	-	-	-	-	-	100,123
35-39	99,966	106,704	115,419	129,345	111,211	-	-	-	-	111,968
40-44	104,324	111,963	118,841	135,208	130,336	114,785	-	-	-	120,259
45-49	97,973	110,775	118,963	137,068	135,955	134,353	101,183	-	-	124,652
50-54	96,015	105,961	119,702	151,026	131,387	136,422	136,656	128,225	-	127,941
55-59	103,191	106,247	116,772	139,288	134,145	149,495	131,494	151,300	144,528	130,627
60-64	93,910	111,663	115,619	121,628	122,828	121,979	131,510	139,117	131,674	120,026
65 & Over	105,776	130,848	126,161	139,525	127,360	132,230	187,404	135,109	149,428	133,782
Avg. Annual Compensation	\$92,889	\$103,858	\$116,252	\$136,465	\$130,757	\$135,439	\$134,936	\$142,318	\$142,897	\$117,318

Exhibit C-4b

Age & Service Distribution of Active Members by Count and Average Compensation as of June 30, 2023 – Safety Members

Count	]									
Age	0-1	1-4	5-9	10-14	ears of Servi	<b>ce</b> 20-24	25-29	30-34	35&Over	Total Count
Age				10 14	10 10	20 24	20 20	00 04	0000101	Count
Under 25	1	3	0	0	0	0	0	0	0	4
25-29	5	31	7	0	0	0	0	0	0	43
30-34	6	28	49	5	0	0	0	0	0	88
35-39	3	14	38	13	5	0	0	0	0	73
40-44	4	12	18	20	16	3	0	0	0	73
45-49	2	3	10	11	12	19	1	0	0	58
50-54	5	6	5	19	12	14	5	0	0	66
55-59	1	7	11	7	3	6	7	1	0	43
60-64	0	1	1	5	1	1	1	0	0	10
65 & Over	0	0	1	2	0	0	0	0	0	3
Total Count	27	105	140	82	49	43	14	1	0	461
Compensation	1									
- Сотранованов	J			Υ	ears of Servi	ce				Average
Age	0-1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35&Over	Comp.
Under 25	\$136,248	\$134,208	_	_	_	_	_	_	_	\$134,718
25-29	122,165	144,190	147,562	_	-	_	_	-	-	142,178
30-34	138,236	135,619	153,938	152,006	-	-	_	_	-	146,929
35-39	155,708	138,434	157,158	170,604	170,129	-	_	_	-	156,791
40-44	172,654	131,058	163,034	181,851	212,296	189,011	_	_	-	175,325
45-49	178,665	154,726	157,277	195,454	193,703	195,165	265,329	-	-	186,934
50-54	181,537	161,785	170,422	198,986	198,848	195,623	223,462	_	-	193,234
55-59	150,574	155,990	155,046	171,791	178,388	165,855	210,318	233,895	-	171,790
60-64	· -	140,067	143,105	162,479	176,541	199,443	146,338	-	-	161,789
65 & Over	-	-	175,250	185,529	-	-	-	-	-	182,103
Avg. Annual Compensation	\$153,697	\$141,405	\$156,652	\$182,093	\$197,341	\$190,895	\$214,372	\$233,895	-	\$166,971

Exhibit C-4c

Age & Service Distribution of Active Members by Count and Average Compensation as of June 30, 2023 – Probation Members

Count										
					ears of Servi					Total
Age	0-1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35&Over	Count
Under 25	0	0	0	0	0	0	0	0	0	0
25-29	1	3	0	0	0	0	0	0	0	4
30-34	0	5	14	1	0	0	0	0	0	20
35-39	0	0	9	5	4	0	0	0	0	18
40-44	0	0	5	5	16	2	0	0	0	28
45-49	0	1	2	1	20	21	2	0	0	47
50-54	0	0	1	1	5	10	2	0	0	19
55-59	0	1	0	0	6	2	0	1	0	10
60-64	0	0	0	0	0	0	0	0	0	0
65 & Over	0	0	0	0	0	0	0	0	0	0
Total Count	1	10	31	13	51	35	4	1	0	146
Compensation	]									
					ears of Servi					Average
Age	0-1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35&Over	Comp.
Under 25	-	-	_	-	-	-	-	-	-	-
25-29	\$86,133	\$110,191	-	-	-	-	-	-	-	\$104,177
30-34	-	108,853	120,911	126,450	-	-	-	-	-	118,173
35-39	-	-	121,946	126,839	131,355	-	-	-	-	125,396
40-44	-	-	116,260	125,472	128,891	136,776	-	-	-	126,588
45-49	-	86,806	128,446	132,173	133,924	142,581	150,024	-	-	137,204
50-54	-	-	134,447	175,250	132,772	145,392	146,987	-	-	143,234
55-59	-	104,431	-	-	121,363	216,413	-	143,923	-	140,936
60-64	-	-	-	-	-	-	-	-	-	-
65 & Over	-	-	-	-	-	-	-	-	-	-
Avg. Annual Compensation	\$86,133	\$106,608	\$121,384	\$130,418	\$130,553	\$147,271	\$148,505	143,923	-	\$131,241

Exhibit C-5
Distribution of Retired Members by Age and Retirement Year as of June 30, 2023 – All Plans Combined

Age	Pre-1990	1990-94	1995-99	<b>Retire</b> 2000-04	ment Year 2005-09	2010-14	2015-19	2020-24	Total Count	Average Monthly Benefit
Under 35	-	-	-	-	-	4	2	2	8	\$ 1,658
35-39	_	_	1	_	1	-	-	-	2	1,634
40-44	_	-	-	1	-	2	10	3	16	3,640
45-49	-	-	_	_	4	8	15	25	52	4,077
50-54	-	-	-	2	9	12	39	145	207	4,688
55-59	_	-	4	9	11	18	195	210	447	4,942
60-64	-	-	6	10	26	148	285	292	767	4,776
65-69	-	2	13	31	121	216	387	258	1,028	4,651
70-74	2	10	28	114	230	365	288	92	1,129	4,240
75-79	3	15	106	169	300	231	116	41	981	4,578
80-84	10	61	118	174	174	75	35	26	673	4,031
85-89	24	63	90	75	22	22	18	15	329	3,270
90-94	39	40	53	13	14	13	14	5	191	3,056
95-99	34	16	11	2	5	3	6	5	82	2,407
100 & Over	9	5	3	-	-	1	1	1	20	2,725
Total Count	121	212	433	600	917	1,118	1,411	1,120	5,932	
Avg Monthly Benefit	\$ 2,536	\$ 2,868	\$ 2,961	\$ 4,087	\$ 4,974	\$ 4,249	\$ 4,465	\$ 4,957		\$ 4,351

Exhibit C-5a

Distribution of Retired Members by Age and Retirement Year as of June 30, 2023 – General Plans Combined

Age	Pre-1990	1990-94	1995-99	<b>Retire</b> 2000-04	ment Year 2005-09	2010-14	2015-19	2020-24	Total Count	Average Monthly Benefit
Under 35	-	-	-	-	-	4	2	1	7	\$ 1,456
35-39	-	-	1	-	1	-	-	-	2	1,634
40-44	-	-	-	1	-	2	5	2	10	3,596
45-49	-	-	-	-	3	5	7	8	23	3,103
50-54	-	-	-	-	6	10	14	59	89	2,359
55-59	-	-	2	4	5	13	100	158	282	3,339
60-64	-	-	5	7	17	106	231	264	630	4,240
65-69	-	1	8	24	92	175	351	239	890	4,151
70-74	1	6	21	99	190	336	271	84	1,008	3,854
75-79	-	9	88	102	274	214	107	33	827	4,102
80-84	5	50	74	140	167	66	30	20	552	3,627
85-89	21	56	78	71	20	21	16	10	293	3,180
90-94	35	40	51	11	14	12	12	5	180	2,879
95-99	34	16	11	2	5	3	6	5	82	2,407
100 & Over	9	5	2	-	-	1	1	1	19	2,579
Total Count	105	183	341	461	794	968	1,153	889	4,894	
Avg Monthly Benefit	\$ 2,216	\$ 2,506	\$ 2,385	\$ 3,318	\$ 4,495	\$ 3,736	\$ 3,844	\$ 4,456		\$ 3,803

Exhibit C-5b

Distribution of Retired Members by Age and Retirement Year as of June 30, 2023 – Safety Plans Combined

				Ratira	ment Year				Total	Average Monthly
Age	Pre-1990	1990-94	1995-99	2000-04	2005-09	2010-14	2015-19	2020-24	Count	Benefit
Under 35	-	-	-	-	-	-	-	1	1	\$ 3,071
35-39	-	-	-	-	-	-	-	-	-	-
40-44	-	-	-	-	-	-	4	1	5	3,816
45-49	-	-	-	-	1	2	4	6	13	5,750
50-54	-	-	-	2	3	2	11	48	66	6,402
55-59	-	-	2	4	5	3	59	32	105	8,478
60-64	-	-	1	3	8	30	37	22	101	7,585
65-69	-	1	5	4	22	26	30	17	105	8,475
70-74	1	4	6	14	32	19	16	6	98	7,774
75-79	3	5	16	55	14	9	8	7	117	7,833
80-84	5	8	32	18	2	4	4	6	79	6,714
85-89	3	5	5	1	-	-	2	3	19	5,629
90-94	4	-	2	-	-	1	1	-	8	6,954
95-99	-	-	-	-	-	-	-	-	-	-
100 & Over	-	-	1	-	-	-	-	-	1	5,494
Total Count	16	23	70	101	87	96	176	149	718	
Avg Monthly Benefit	\$ 4,637	\$ 5,694	\$ 5,504	\$ 7,577	\$ 9,503	\$ 8,531	\$ 7,696	\$ 7,291		\$ 7,580

Exhibit C-5c
Distribution of Retired Members by Age and Retirement Year as of June 30, 2023 – Probation Plans Combined

				Retire	ment Year				Total	Average Monthly
Age	Pre-1990	1990-94	1995-99	2000-04	2005-09	2010-14	2015-19	2020-24	Count	Benefit
Under 35	-	-	-	-	-	-	-	-	-	\$ -
35-39	-	-	-	-	-	-	-	-	-	-
40-44	-	-	-	-	-	-	1	-	1	3,197
45-49	-	-	-	-	-	1	4	11	16	4,117
50-54	-	-	-	-	-	-	14	38	52	6,499
55-59	-	-	-	1	1	2	36	20	60	6,285
60-64	-	-	-	-	1	12	17	6	36	6,292
65-69	-	-	-	3	7	15	6	2	33	5,968
70-74	-	-	1	1	8	10	1	2	23	6,112
75-79	-	1	2	12	12	8	1	1	37	4,932
80-84	-	3	12	16	5	5	1	-	42	4,294
85-89	-	2	7	3	2	1	-	2	17	2,197
90-94	-	-	-	2	-	-	1	-	3	3,320
95-99	-	-	-	-	-	-	-	-	-	-
100 & Over	-	-	-	-	-	-	-	-	-	-
Total Count	-	6	22	38	36	54	82	82	320	
Avg Monthly Benefit	\$ -	\$ 3,094	\$ 3,799	\$ 4,136	\$ 4,599	\$ 5,842	\$ 6,261	\$ 6,154		\$ 5,495

## **Appendix D** Member Contribution Rates

This section illustrates the member basic contribution rates and COLA sharing contribution rates by entry age for Plans 1 through 6. For different COLA sharing percentages, the COLA contribution rates may be adjusted ratably, and should be rounded to two decimal places.

Member contribution rates for Plan 7 are not defined by entry age. Plan 7 members contribute 50% of the total Normal Cost rate. For the 2024-2025 fiscal year, Plan 7 member contribution rates are:

General Plan 7 members: 9.63%

SMCM&VCD Plan 7 members: 9.69%

Safety Plan 7 members: 15.91%

Probation Plan 7 members: 16.23%

Please refer to Appendix B for a detailed description of member contribution rates.

Exhibit D-1
General Member Contribution Rates (including SMCM&VCD)

#### **Basic Member Rates**

	Ger	neral & SMCM8	kVCD	General	SMCM&VCD
Entry Age (1)	Plans 1&2	Plan 4	Plan 5	Plan 7	Plan 7
16	7.12%	6.86%	6.05%	9.63%	9.69%
17	7.22%	6.96%	6.13%	9.63%	9.69%
18	7.32%	7.06%	6.22%	9.63%	9.69%
19	7.42%	7.16%	6.31%	9.63%	9.69%
20	7.53%	7.26%	6.40%	9.63%	9.69%
21	7.63%	7.36%	6.49%	9.63%	9.69%
22	7.74%	7.46%	6.58%	9.63%	9.69%
23	7.85%	7.56%	6.67%	9.63%	9.69%
24	7.95%	7.67%	6.76%	9.63%	9.69%
25	8.07%	7.78%	6.86%	9.63%	9.69%
26	8.18%	7.88%	6.96%	9.63%	9.69%
27	8.29%	7.99%	7.05%	9.63%	9.69%
28	8.41%	8.11%	7.15%	9.63%	9.69%
29	8.53%	8.22%	7.25%	9.63%	9.69%
30	8.64%	8.33%	7.35%	9.63%	9.69%
31	8.77%	8.45%	7.45%	9.63%	9.69%
32	8.89%	8.57%	7.56%	9.63%	9.69%
33	9.01%	8.69%	7.66%	9.63%	9.69%
34	9.14%	8.81%	7.77%	9.63%	9.69%
35	9.27%	8.94%	7.88%	9.63%	9.69%
36	9.41%	9.07%	7.99%	9.63%	9.69%
37	9.54%	9.20%	8.10%	9.63%	9.69%
38	9.68%	9.33%	8.22%	9.63%	9.69%
39	9.83%	9.46%	8.33%	9.63%	9.69%
40	9.97%	9.60%	8.45%	9.63%	9.69%
41	10.11%	9.73%	8.57%	9.63%	9.69%
42	10.25%	9.86%	8.70%	9.63%	9.69%
43	10.39%	9.99%	8.82%	9.63%	9.69%
44	10.53%	10.12%	8.95%	9.63%	9.69%
45	10.68%	10.25%	9.07%	9.63%	9.69%
46	10.83%	10.38%	9.20%	9.63%	9.69%
47	10.97%	10.50%	9.32%	9.63%	9.69%
48	11.11%	10.61%	9.45%	9.63%	9.69%
49	11.24%	10.69%	9.57%	9.63%	9.69%
50	11.35%	10.74%	9.69%	9.63%	9.69%
51	11.44%	10.74%	9.81%	9.63%	9.69%
52	11.47%	10.74%	9.93%	9.63%	9.69%
53	11.47%	10.97%	10.03%	9.63%	9.69%
54	11.47%	11.30%	10.11%	9.63%	9.69%
55	11.47%	11.30%	10.15%	9.63%	9.69%
56	11.47%	11.30%	10.15%	9.63%	9.69%
57	11.47%	11.30%	10.15%	9.63%	9.69%
58	11.47%	11.30%	10.37%	9.63%	9.69%
59	11.47%	11.30%	10.68%	9.63%	9.69%
60	11.47%	11.30%	10.68%	9.63%	9.69%

<sup>1.</sup> For General and SMCM&VCD members entering after age 60, the rate equals the rate at age 60.

Exhibit D-2 Safety/Probation Member Contribution Rates

## **Basic Member Rates**

		Dasic Mellibe	Tutoo			
	Safety &	Probation	Safety	Probation		
Entry Age (1)	Plans 1&2	Plans 4&5&6	Plan 7	Plan 7		
16	10.02%	9.63%	15.91%	16.23%		
17	10.14%	9.74%	15.91%	16.23%		
18	10.25%	9.85%	15.91%	16.23%		
19	10.37%	9.97%	15.91%	16.23%		
20	10.49%	10.08%	15.91%	16.23%		
21	10.62%	10.20%	15.91%	16.23%		
22	10.74%	10.32%	15.91%	16.23%		
23	10.86%	10.44%	15.91%	16.23%		
24	10.99%	10.56%	15.91%	16.23%		
25	11.12%	10.68%	15.91%	16.23%		
26	11.25%	10.81%	15.91%	16.23%		
27	11.38%	10.94%	15.91%	16.23%		
28	11.51%	11.06%	15.91%	16.23%		
29	11.65%	11.19%	15.91%	16.23%		
30	11.79%	11.33%	15.91%	16.23%		
31	11.93%	11.46%	15.91%	16.23%		
32	12.07%	11.60%	15.91%	16.23%		
33	12.22%	11.74%	15.91%	16.23%		
34	12.37%	11.89%	15.91%	16.23%		
35	12.52%	12.03%	15.91%	16.23%		
36	12.68%	12.19%	15.91%	16.23%		
37	12.85%	12.34%	15.91%	16.23%		
38	13.02%	12.50%	15.91%	16.23%		
39	13.19%	12.66%	15.91%	16.23%		
40	13.37%	12.81%	15.91%	16.23%		
41	13.54%	12.97%	15.91%	16.23%		
42	13.72%	13.11%	15.91%	16.23%		
43	13.89%	13.24%	15.91%	16.23%		
44	14.05%	13.33%	15.91%	16.23%		
45	14.18%	13.36%	15.91%	16.23%		
46	14.26%	13.36%	15.91%	16.23%		
47	14.27%	13.36%	15.91%	16.23%		
48	14.27%	13.60%	15.91%	16.23%		
49	14.27%	14.01%	15.91%	16.23%		
50	14.27%	14.01%	15.91%	16.23%		

<sup>1.</sup> For Safety and Probation members entering after age 50, the rate equals the rate at age 50.

Exhibit D-3
General Member Contribution Rates (except SMCM&VCD)

50% Member COLA Rates Entry Age (1) Plan 1 Plan 2 Plan 4 Plan 5 16 2.49% 2.98% 1.90% 1.64% 17 2.53% 3.02% 1.93% 1.66% 18 2.56% 3.06% 1.95% 1.68% 19 2.60% 3.11% 1.98% 1.71% 20 2.64% 3.15% 2.01% 1.73% 21 2.67% 3.19% 2.04% 1.76% 22 2.71% 3.24% 2.06% 1.78% 23 3.29% 2.75% 2.09% 1.81% 24 2.78% 3.33% 2.12% 1.83% 25 2.82% 3.38% 2.15% 1.86% 26 2.86% 3.42% 2.18% 1.88% 27 2.90% 3.47% 2.21% 1.91% 28 2.94% 3.52% 2.24% 1.94% 29 2.99% 2.27% 3.57% 1.96% 30 3.02% 3.62% 2.30% 1.99% 31 3.07% 3.67% 2.34% 2.02% 32 3.72% 2.37% 2.05% 3.11% 33 3.15% 3.77% 2.40% 2.07% 34 3.20% 3.83% 2.44% 2.10% 35 3.24% 3.88% 2.47% 2.13% 36 3.29% 3.94% 2.51% 2.16% 37 3.34% 3.99% 2.54% 2.19% 38 3.39% 4.05% 2.58% 2.23% 39 3.44% 4.11% 2.62% 2.26% 40 3.49% 4.17% 2.66% 2.29% 41 3.54% 4.23% 2.69% 2.32% 42 3.59% 4.29% 2.73% 2.36% 43 3.64% 4.35% 2.76% 2.39% 44 3.69% 4.41% 2.80% 2.42% 45 3.74% 4.47% 2.84% 2.46% 46 3.79% 4.53% 2.87% 2.49% 47 3.84% 4.59% 2.90% 2.52% 48 3.89% 4.65% 2.93% 2.56% 49 3.93% 4.70% 2.96% 2.59% 50 3.97% 4.75% 2.97% 2.62% 4.00% 51 4.79% 2.97% 2.66% 4.01% 52 4.80% 2.97% 2.69% 53 4.01% 4.80% 3.03% 2.72% 54 4.01% 4.80% 3.13% 2.74% 55 4.01% 4.80% 3.13% 2.75% 56 4.80% 4.01% 3.13% 2.75% 57 4.01% 4.80% 2.75% 3.13% 58 4.01% 4.80% 3.13% 2.81% 59 4.01% 4.80% 3.13% 2.89% 60 4.80% 4.01% 3.13% 2.89%

<sup>1.</sup> For General and SMCM&VCD members entering after age 60, the rate equals the rate at age 60.

Exhibit D-4
Safety Member Contribution Rates

50% Member COLA Rates

Entry Ago (1)	Diam 4		Diam 4		Dlen C
Entry Age <sup>(1)</sup>	Plan 1	Plan 2	Plan 4	Plan 5	Plan 6
16	4.80%	6.12%	4.14%	3.78%	3.13%
17	4.86%	6.19%	4.19%	3.82%	3.16%
18	4.91%	6.26%	4.23%	3.87%	3.20%
19	4.97%	6.34%	4.29%	3.91%	3.24%
20	5.03%	6.41%	4.33%	3.96%	3.27%
21	5.09%	6.49%	4.38%	4.00%	3.31%
22	5.15%	6.56%	4.44%	4.05%	3.35%
23	5.21%	6.63%	4.49%	4.10%	3.39%
24	5.27%	6.71%	4.54%	4.14%	3.43%
25	5.33%	6.79%	4.59%	4.19%	3.47%
26	5.39%	6.87%	4.65%	4.24%	3.51%
27	5.45%	6.95%	4.70%	4.29%	3.55%
28	5.52%	7.03%	4.75%	4.34%	3.59%
29	5.58%	7.12%	4.81%	4.39%	3.63%
30	5.65%	7.20%	4.87%	4.45%	3.68%
31	5.72%	7.29%	4.93%	4.50%	3.72%
32	5.79%	7.37%	4.99%	4.55%	3.77%
33	5.86%	7.47%	5.05%	4.61%	3.81%
34	5.93%	7.56%	5.11%	4.67%	3.86%
35	6.00%	7.65%	5.17%	4.72%	3.91%
36	6.08%	7.75%	5.24%	4.78%	3.96%
37	6.16%	7.85%	5.30%	4.84%	4.01%
38	6.24%	7.95%	5.37%	4.91%	4.06%
39	6.32%	8.06%	5.44%	4.97%	4.11%
40	6.41%	8.17%	5.51%	5.03%	4.16%
41	6.49%	8.27%	5.57%	5.09%	4.21%
42	6.58%	8.38%	5.63%	5.15%	4.26%
43	6.66%	8.49%	5.69%	5.20%	4.30%
44	6.73%	8.58%	5.73%	5.23%	4.33%
45	6.80%	8.66%	5.74%	5.24%	4.34%
46	6.83%	8.71%	5.74%	5.24%	4.34%
47	6.84%	8.72%	5.74%	5.24%	4.34%
48	6.84%	8.72%	5.85%	5.34%	4.42%
49	6.84%	8.72%	6.02%	5.50%	4.55%
50	6.84%	8.72%	6.02%	5.50%	4.55%

<sup>1.</sup> For Safety members entering after age 50, the rate equals the rate at age 50.

Exhibit D-5
Probation Member Contribution Rates

50% Member COLA Rates

	50% Member COLA Rates							
Entry Age <sup>(1)</sup>	Plan 1	Plan 2	Plan 4	Plan 5	Plan 6			
16	5.33%	6.21%	4.02%	3.49%	2.93%			
17	5.40%	6.28%	4.06%	3.53%	2.96%			
18	5.45%	6.35%	4.11%	3.57%	3.00%			
19	5.52%	6.43%	4.16%	3.62%	3.03%			
20	5.58%	6.50%	4.21%	3.66%	3.07%			
21	5.65%	6.58%	4.26%	3.70%	3.10%			
22	5.71%	6.66%	4.31%	3.74%	3.14%			
23	5.78%	6.73%	4.36%	3.79%	3.18%			
24	5.85%	6.81%	4.41%	3.83%	3.21%			
25	5.92%	6.89%	4.46%	3.87%	3.25%			
26	5.99%	6.97%	4.51%	3.92%	3.29%			
27	6.06%	7.05%	4.57%	3.97%	3.33%			
28	6.12%	7.13%	4.62%	4.01%	3.37%			
29	6.20%	7.22%	4.67%	4.06%	3.41%			
30	6.27%	7.31%	4.73%	4.11%	3.45%			
31	6.35%	7.39%	4.78%	4.16%	3.49%			
32	6.42%	7.48%	4.84%	4.21%	3.53%			
33	6.50%	7.57%	4.90%	4.26%	3.57%			
34	6.58%	7.67%	4.96%	4.31%	3.62%			
35	6.66%	7.76%	5.02%	4.36%	3.66%			
36	6.75%	7.86%	5.09%	4.42%	3.71%			
37	6.84%	7.96%	5.15%	4.48%	3.76%			
38	6.93%	8.07%	5.22%	4.54%	3.81%			
39	7.02%	8.18%	5.28%	4.59%	3.85%			
40	7.11%	8.29%	5.35%	4.65%	3.90%			
41	7.20%	8.39%	5.41%	4.71%	3.95%			
42	7.30%	8.50%	5.47%	4.76%	3.99%			
43	7.39%	8.61%	5.53%	4.80%	4.03%			
44	7.48%	8.71%	5.56%	4.84%	4.06%			
45	7.55%	8.79%	5.58%	4.85%	4.07%			
46	7.59%	8.84%	5.58%	4.85%	4.07%			
47	7.59%	8.84%	5.58%	4.85%	4.07%			
48	7.59%	8.84%	5.68%	4.93%	4.14%			
49	7.59%	8.84%	5.85%	5.08%	4.26%			
50	7.59%	8.84%	5.85%	5.08%	4.26%			

<sup>1.</sup> For Probation members entering after age 50, the rate equals the rate at age 50.

## Appendix E Glossary

The following definitions include excerpts from a list adopted by the major actuarial organizations in the United States. In some cases, the definitions have been modified for specific applicability to SamCERA and include terms used exclusively by SamCERA. Defined terms are capitalized throughout this Appendix.

#### **Accrued Benefit**

The amount of an individual's benefit (whether or not vested) as of a specific date, determined in accordance with the terms of a pension plan and based on compensation and service to that date.

#### **Actuarial Accrued Liability**

That portion, as determined by a particular Actuarial Cost Method, of the Actuarial Present Value of pension plan benefits and expenses which is not provided for by future Normal Costs.

## **Actuarial Assumptions**

Assumptions as to the occurrence of future events affecting pension costs, such as: mortality, withdrawal, disability, and retirement; changes in compensation; rates of investment earnings and asset appreciation or depreciation; procedures used to determine the Actuarial Value of Assets; and other relevant items.

#### **Actuarial Gain (Loss)**

A measure of the difference between actual experience and that expected based on a set of Actuarial Assumptions during the period between two Actuarial Valuation dates, as determined in accordance with a particular Actuarial Cost Method.

#### **Actuarial Present Value**

The value of an amount or series of amounts payable or receivable at various times, determined as of a given date by the application of a particular set of Actuarial Assumptions.

#### **Actuarial Valuation**

The determination, as of a valuation date, of the Normal Cost, Actuarial Accrued Liability, Actuarial Value of Assets, and related Actuarial Present Values for a pension plan.

#### **Actuarial Value of Assets**

The value of cash, investments and other property belonging to a pension plan, as used by the actuary for the purpose of an Actuarial Valuation.

#### **Actuarially Equivalent**

Of equal Actuarial Present Value, determined as of a given date with each value based on the same set of Actuarial Assumptions.

#### **Amortization Payment**

That portion of the pension plan contribution which is designed to pay interest on and to amortize the Unfunded Actuarial Accrued Liability.

#### **COLA**

Cost of living adjustments to benefit payments are made each April 1. See full description in Appendix B.

#### **Cost of Living Adjustment Reserve**

This is the reserve for employer Cost of Living Adjustment contributions.

#### **County Supplementary Contributions Account (CSCA) Reserve**

This is a reserve for supplemental contributions from the County of San Mateo that are over and above the County's required statutory contribution rates.

#### **District Supplementary Contributions Account (DSCA) Reserve**

This is a reserve for supplemental contributions from the San Mateo County Mosquito and Vector Control District ("District") that are over and above the District's required statutory contribution rates.

#### **Employer Advance Reserve**

This is the reserve for statutorily determined contributions from all employers.

#### **Entry Age Actuarial Cost Method**

A method under which the Actuarial Present Value of the Projected Benefits of each individual included in an Actuarial Valuation is allocated on a level basis over the earnings or service of the individual between entry age and assumed exit ages. The portion of this Actuarial Present Value allocated to a valuation year is called the Normal Cost. The portion of this Actuarial Present Value not provided for at a valuation date by the Actuarial Present Value of future Normal Costs is called the Actuarial Accrued Liability.

#### **Funded Ratio**

A measurement of funded status. The Funded Ratio is calculated by dividing the Valuation Assets by the Actuarial Accrued Liability. For example, a Funded Ratio of 90% indicates assets are 10% less than liabilities.

#### **Member Reserve**

This is the reserve for member contributions.

#### Non-Valuation Reserves

Reserves excluded from the calculation of contribution rates. These include the statutorily defined Contingency Reserve(s) and any other reserves that may be created or designated by the Board for a specified purpose.

#### **Normal Cost**

That portion of the Actuarial Present Value of pension plan benefits and expenses which is allocated to a valuation year by the Actuarial Cost Method.

#### Plan Year

A 12-month period beginning July 1 and ending June 30.

#### **Projected Benefits**

Those pension plan benefit amounts which are expected to be paid at various future times under a particular set of Actuarial Assumptions, taking into account such items as the effect of advancement in age and past and anticipated future compensation and service credits.

#### **Retiree Reserve**

This is the reserve for retirees. Funds from the Member Reserve and the Employer Advance Reserve are transferred to the Retiree Reserve when a member retires.

#### **Undistributed Earnings/Losses Reserve**

This reserve is for cumulative undistributed actuarial earnings and losses.

#### **Unfunded Actuarial Accrued Liability**

The excess, if any, of the Actuarial Accrued Liability over the Actuarial Value of Assets.

#### **Valuation Date**

The date upon which the Normal Cost, Actuarial Accrued Liability, and Actuarial Value of Assets are determined. Generally, the Valuation Date will coincide with the ending of a Plan Year.

#### **Valuation Reserves**

Valuation Reserves are used to determine the employers' and members' statutory contribution rates. They include all reserves that are not Non-Valuation Reserves.

## SAN MATEO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION

#### **Board of Retirement**

September 26, 2023 Agenda Item 5.3

**TO:** Board of Retirement

FROM: Scott Hood, Chief Executive Officer

**SUBJECT:** Presentation of the June 30, 2023, Actuarial Valuation Audit by Cheiron, Inc.

#### Recommendation

Cheiron Inc. will present the results of its audit of the June 30, 2023, Actuarial Valuation as produced by Milliman, Inc. This is an information-only item.

## **Background**

As part of our actuarial auditing process, every three years the auditing actuary audits both the Triennial Experience Study and the annual Actuarial Valuation. In July, Cheiron presented its audit of the Investigation of Experience July 1, 2020 – April 30, 2023. At today's meeting, Anne Harper of Cheiron will present its audit of the June 30, 2023, Actuarial Valuation.

#### Discussion

The purpose of the valuation audit is to verify the calculations completed by Milliman and to offer comments on the methodology and the results of their actuarial valuation. Cheiron noted in their audit report that "we are able to confirm that the liabilities and costs computed in the valuation as of June 30, 2023 are reasonably accurate and were computed in accordance with generally accepted actuarial principles."

Cheiron notes that continued COLA contributions after 30 years of service for two Safety members and one Probation member were not included in Milliman's projections. Therefore, a larger but non-material discrepancy in the calculated rates for those groups was noted.

Cheiron has recommended that Milliman use CPI-U as the wage increase assumption for salaries limited by PEPRA, rather than the higher general wage increase assumption. This will become more important as more salaries achieve the PEPRA salary limit.

Cheiron notes that irrelevant terminated records appear in the data extract and continue to be excluded from the valuation process. The exclusion of these records complies with Actuarial Standards of Practice (ASOP) No. 23, Data Quality and Cheiron recommends that staff exclude such terminated records before transmitting the data extract to Milliman.

Cheiron commends Milliman for including baseline projections of the employer contribution rates, assuming all actuarial assumptions are met after June 30, 2023 and reflecting the scheduled recognition of asset gains and losses currently being deferred. Cheiron also encourages Milliman to

break down the employer rate projection into General, Safety and Probation groups independently since the UAL payments as a percentage of payroll currently vary significantly from 12% to 33% of payroll. Finally, Cheiron suggests that Milliman also include baseline projections of SamCERA's funded status.

#### **Attachment**

Cheiron Inc.'s Audit of June 30, 2023 Actuarial Valuation



San Mateo County Employees' Retirement Association

Audit of the June 30, 2023 Actuarial Valuation

Produced by Cheiron September 2023

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#### Via Electronic Mail

September 20, 2023

Board of Retirement San Mateo County Employees' Retirement Association 100 Marine Parkway, Suite 125 Redwood City, CA 94065-5208

#### Members of the Board:

Cheiron is pleased to present the results of our actuarial audit of the June 30, 2023 Actuarial Valuation of the San Mateo County Employees' Retirement Association (SamCERA), performed by Milliman. We would like to thank Milliman for providing us with information and explanations that facilitated the actuarial audit process and ensured that our findings are accurate and benefit SamCERA.

We direct your attention to the executive summary section of our report which highlights the key findings of our review. The remaining sections of the report provide details in support of these findings along with supplemental data, background information, and discussion of the process used in the evaluation of the work performed by Milliman.

In preparing our report, we relied on information (some oral and some written) supplied by SamCERA and Milliman. This information includes, but is not limited to, actuarial assumptions and methods adopted by SamCERA, plan provisions, employee data, and financial information. We performed an informal examination of the obvious characteristics of the data for reasonableness in accordance with Actuarial Standard of Practice No. 23. A detailed description of all the information provided for this review is provided in the body of our report.

We hereby certify that, to the best of our knowledge, this report and its contents have been prepared in accordance with generally recognized and accepted actuarial principles and practices and our understanding of the Code of Professional Conduct and applicable Actuarial Standards of Practice set out by the Actuarial Standards Board. Furthermore, as credentialed actuaries, we meet the Qualification Standards of the American Academy of Actuaries to render the opinion contained in this report. This report does not address any contractual or legal issues. We are not attorneys, and our firm does not provide any legal services or advice.

Board of Trustees San Mateo County Employees' Retirement Association September 20, 2023 Page ii

This report was prepared exclusively for SamCERA for the purposes described herein. This report is not intended to benefit any third party, and Cheiron assumes no duty or liability to any such party.

Sincerely, Cheiron

Anne D. Harper, FSA, EA, MAAA Principal Consulting Actuary

ame Hayes

Craig Chu, FSA, EA, FCA, MAAA

Consulting Actuary



#### SECTION I – KEY FINDINGS AND RECOMMENDATIONS

#### **Scope of Assignment**

Cheiron performed a complete independent replication of the SamCERA June 30, 2023 actuarial valuation and reviewed the actuarial assumptions and methods underlying that valuation. We reviewed the census data provided by SamCERA staff and compared it to the information used by Milliman in their valuation. We then performed a full parallel valuation, including the calculation of the projected benefits, accrued liability, and normal cost for all SamCERA members, and compared the results to those shown in Milliman's actuarial valuation report. A report communicating our findings related to the actuarial assumptions has been provided under separate cover.

This audit provides SamCERA confirmation that:

- The results reported by Milliman can be relied upon,
- The actuarial methods comply with Actuarial Standards of Practice (ASOPs),
- The communication of the actuarial valuation results is complete and reasonable, and the Board of Retirement (the Board) and Milliman have considered recommendations and communications that may improve the valuation.

#### **Key Findings and Recommendations**

The main findings of our review are as follows:

- 1. As a result of our efforts, we are able to confirm that the liabilities and costs computed in the valuation as of June 30, 2023 are reasonably accurate and were computed in accordance with generally accepted actuarial principles.
- 2. It is our understanding that Basic member contributions cease upon attainment of 30 years of service for Safety members (and certain longtime General members), but that member contributions for their COLA and cost sharing rates do not cease. The continuation of member COLA rates does not appear to be reflected.

There are two active members in Safety Plan 2 that will have 30 years of service in FYE 2024. Reflecting the continuation of their COLA employee contributions would increase the average employee rate by about 1.5% of Safety Plan 2 payroll, effectively decreasing the Safety Plan 2 employer contribution rate by about 1.5% of payroll.

There is also one active member in Probation Plan 2 with 30 years of service where this would have a similar impact on the contribution rates for Probation Plan 2.

3. UAAL contribution rates are reflected as a percentage of Projected Payroll. This projection has been developed based on salary used for actuarial valuation purposes, increased at the general wage increase assumption of 3.25%.



#### SECTION I – KEY FINDINGS AND RECOMMENDATIONS

We suggest that Milliman consider the following adjustments to their methodology.

- o Increasing PEPRA-limited salaries by the assumed inflation assumption of 2.50%, instead of 3.25%, since PEPRA limit growth is based on CPI-U.
- Salary used for valuation purposes is an annualized biweekly amount, but with a floor applied equal to prior year earnings. The appropriateness of this floor should be carefully considered in the development of the projected payroll, which could potentially be overstated if the prior year earnings include pay elements that may not continue in the following year. Without the floor, the UAAL contribution rates under the new 15-year layered amortization in this valuation would potentially increase slightly as a percentage of payroll as of July 1, 2024.

However, we note that under SamCERA's new funding policy the UAAL contribution rates will be based on the UAAL contribution rates developed in the June 30, 2022 valuation since they are greater than the 15-year amortization of the UAAL as of June 30, 2023, even without the floor. Thus, any changes to the methodology may be considered for future years.

- 4. Census data appears to contain irrelevant terminated records from a change in the pension administration system in 2017 that continue to appear but are excluded from the valuation. Milliman noted that they discussed the apparent discrepancies with SamCERA in their practice of excluding these records. This deliberation and treatment comply with Actuarial Standard of Practice (ASOP) No. 23 *Data Quality*; however, we recommend that Milliman and SamCERA work to reduce these discrepancies in future data extracts.
- 5. Milliman includes baseline projections of the employer contribution rate (ECR), assuming all actuarial assumptions are met after June 30, 2023 and reflecting the scheduled recognition of asset gains and losses currently being deferred. In addition to the ECR projections, we encourage additional detail including but not limited to SamCERA funded status and ECR projections separately by group.



#### SECTION II – REVIEW OF ACTUARIAL VALUATION RESULTS

#### **Valuation Procedures**

Overall, we find that the June 30, 2023 actuarial valuation procedures applied in the reporting of the funded status and the determination of the funding requirements based on the current funding policies and adopted assumptions are technically reasonable and conform to the ASOPs. This is based on our review of the valuation report, the census data used in the valuation, and our parallel valuation using the information described above.

#### **Valuation Results**

Our independent replication of the June 30, 2023 actuarial valuation found no material difference in calculations of plan liabilities, Actuarial Value of Assets, and overall contribution rates from the amounts calculated by Milliman based on the adopted assumptions and methods. For the scope of this audit, materiality means the results in the aggregate were within industry standards of plus or minus 5%. Consequently, we conclude that the valuation prepared by Milliman for SamCERA as of June 30, 2023 is reasonable and can be relied on by the Board for its intended purpose. Our replication of the measures of plan liabilities and costs is summarized in Table II-1 below.

Summary of Valuation	n l	le II-1 Results as of lousands)	Jui	1e 30, 2023	
		Milliman		Cheiron	Ratio
Present Value of Future Benefits	\$	8,247,200	\$	8,197,304	99%
Actuarial Liability	\$	7,035,641	\$	7,008,065	100%
Valuation Value of Assets (VVA)		6,215,283		6,215,641	100%
Unfunded Actuarial Liability (UAL)	\$	820,358	\$	792,424	97%
Funded Percentage on VVA basis		88.3%		88.7%	100%
Contribution Rate by Component					
Net Employer Normal Cost Rate		11.75%		11.33%	96%
UAL Payment Rate		14.89%		14.97%	100%
Total Employer Contribution		26.64%		26.29%	99%

We note that the liability and contribution replications are within 5% of Milliman's calculation.



#### SECTION II – REVIEW OF ACTUARIAL VALUATION RESULTS

Our replication of the employer contribution rates (ECR) by Rate Group and Plan is shown below in Table II-2. We note that the employer rates for most plans are within the 5% threshold.

Table II-2 Employer Contribution Rate Comparison by Rate Group				
		Milliman	Cheiron	Ratio
General				
Plan 1	County	28.64%	28.19%	98%
Plan 2	County	23.62%	22.57%	96%
Plan 2	Courts	27.41%	26.36%	96%
Plan 3	County	21.46%	21.72%	101%
Plan 3	Courts	25.25%	25.51%	101%
Plan 4	County	22.98%	22.23%	97%
Plan 4	Courts	26.77%	26.02%	97%
Plan 5	County	25.48%	24.43%	96%
Plan 5	Courts	29.27%	28.22%	96%
Plan 7	County	21.70%	21.90%	101%
Plan 7	Courts	25.49%	25.69%	101%
Plan 4	SMCM&VCD	31.12%	30.02%	96%
Plan 7	SMCM&VCD	25.45%	25.20%	99%
Safety				
Plan 2		56.61%	54.54%	96%
Plan 4		51.07%	49.77%	97%
Plan 5		51.13%	49.52%	97%
Plan 7		45.39%	44.88%	99%
Probation				
Plan 2		66.06%	59.76%	90%
Plan 4		54.91%	53.73%	98%
Plan 5		50.95%	49.44%	97%
Plan 7		49.55%	48.91%	99%

For the Probation Plan 2 group where the employer contribution rate is outside our 5% target threshold, we have reviewed the differences and concluded that the results are not material to the overall valuation. In addition, it is not unusual to see large percentage differences in very small populations; age and service rounding and other methods used in the valuation systems can have a more notable impact on individual calculations.



#### SECTION II – REVIEW OF ACTUARIAL VALUATION RESULTS

#### Present Value of Future Benefits

The comparison of the present value of future benefits calculated by Milliman and Cheiron indicates how closely we match the application of the actuarial assumptions and plan provisions to the census data in the valuation. To confirm that the match is close across all Cost Groups, a comparison of the present value of benefits for each Cost Group is shown below in Table II-3. We note that all presented results are within the 5% threshold. Therefore, we believe the overall estimate of the benefits for these members is reasonable and accurate.

Table II-3 Present Value of Benefits Comparison by Cost Group (\$ in thousands)			
	Milliman	Cheiron	Ratio
General			
County & Courts			
Plan 1	637,585	640,076	100%
Plan 2	2,123,397	2,113,446	100%
Plan 3	57,194	57,154	100%
Plan 4	2,258,870	2,220,802	98%
Plan 5	175,533	170,269	97%
Plan 7	866,536	873,828	101%
SMCM&VCD			
Plan 1	4,222	4,235	100%
Plan 2	1,649	1,651	100%
Plan 4	11,431	11,250	98%
Plan 7	5,084	4,980	98%
Safety			
Plan 1	277,237	277,886	100%
Plan 2	523,941	523,334	100%
Plan 4	500,788	497,777	99%
Plan 5	90,837	89,766	99%
Plan 7	172,777	172,127	100%
Probation			
Plan 1	52,976	53,137	100%
Plan 2	163,531	163,572	100%
Plan 4	283,612	282,354	100%
Plan 5	8,177	8,100	99%
Plan 7	31,185	30,928	99%



#### SECTION II – REVIEW OF ACTUARIAL VALUATION RESULTS

#### **Actuarial Liability**

The Entry Age actuarial cost method allocates the present value of future benefits between past and future time periods. The portion attributed to periods before the valuation date is the Actuarial Liability and is used as a funding target in developing contribution rates. We note that the Actuarial Liability for each cost group is within 5%.

Actuarial Lia	Table II-4 bility Comparison by (\$ in thousands)	y Cost Group	
	Milliman	Cheiron	Ratio
General			
County & Courts			
Plan 1	637,585	640,076	100%
Plan 2	2,093,668	2,085,788	100%
Plan 3	54,633	54,288	99%
Plan 4	1,943,619	1,920,912	99%
Plan 5	102,807	101,462	99%
Plan 7	335,842	338,353	101%
SMCM&VCD			
Plan 1	4,222	4,235	100%
Plan 2	1,649	1,651	100%
Plan 4	8,656	8,625	100%
Plan 7	2,118	2,022	95%
Safety			
Plan 1	277,237	277,886	100%
Plan 2	522,091	521,473	100%
Plan 4	447,970	447,091	100%
Plan 5	47,578	47,759	100%
Plan 7	63,797	64,437	101%
Probation			
Plan 1	52,976	53,137	100%
Plan 2	163,330	163,396	100%
Plan 4	258,193	257,727	100%
Plan 5	4,260	4,346	102%
Plan 7	12,768	12,769	100%



#### SECTION II – REVIEW OF ACTUARIAL VALUATION RESULTS

#### Normal Costs

The normal cost represents the portion of the present value of future benefits that is attributed to the current year of service. Under the entry age method, it is designed to be a level percent of pay throughout an individual's career. We note that the Normal Cost for each group is within the 5% threshold except for Probation Plan 2, which has only two active members and thus the difference is not material to the overall plan results.

Total Norma	Table II-5 l Cost Comparison by	Cost Group	
	Milliman	Cheiron	Ratio
General			
County & Courts			
Plan 1	30.59%	30.59%	100%
Plan 2	26.64%	25.31%	95%
Plan 3	9.39%	9.65%	103%
Plan 4	25.03%	24.05%	96%
Plan 5	23.61%	22.33%	95%
Plan 7	19.26%	19.37%	101%
SMCM&VCD			
Plan 1	0.00%	0.00%	
Plan 2	0.00%	0.00%	
Plan 4	23.71%	22.44%	95%
Plan 7	19.38%	19.00%	98%
Safety			
Plan 1	0.00%	0.00%	
Plan 2	48.24%	45.71%	95%
Plan 4	42.13%	40.84%	97%
Plan 5	41.11%	39.49%	96%
Plan 7	31.81%	31.37%	99%
Probation			
Plan 1	0.00%	0.00%	
Plan 2	44.98%	38.68%	86%
Plan 4	40.72%	39.52%	97%
Plan 5	36.03%	34.53%	96%
Plan 7	32.45%	31.83%	98%



#### SECTION II – REVIEW OF ACTUARIAL VALUATION RESULTS

#### **Employee Contribution Rates**

As part of the audit, we replicated the calculations of the individual employee contribution rates based on the applicable provisions of the County Employees' Retirement Law (the CERL) and our understanding of additional cost sharing as described in the valuation report. For the Non-PEPRA (Legacy) tiers, we understand the employee contribution rates to be made up of the following components:

- A Basic rate providing for the following:
  - o **General Tiers 1 and 2**: 1/120<sup>th</sup> of One-Year Final Average Compensation at a retirement age of 55
  - o **General Tier 4**: 1/120<sup>th</sup> of Three-Year Final Average Compensation at a retirement age of 55
  - o General Tier 3: N/A (i.e., no employee contributions required)
  - o General Tier 5: 1/120<sup>th</sup> of Three-Year Final Average Compensation at a retirement age of 60
  - Safety Tiers 1 and 2: 1/100th of One-Year (Three-Year for Safety Tiers 4, 5, and
     6) Final Average Compensation at a retirement age of 50
- A COLA rate provides one-half of the cost of the COLA for Tiers 1, 2, 4, 5, and 6, except for SMCM&VCD members.
- An additional cost sharing contribution described as follows:
  - o General Tiers 1, 2, and 4 (except SMCM&VCD) members pay 3% of salary
  - o Safety Tiers 1, 2, and 4 members (except Deputy Sheriffs) pay 5% of salary
  - o Safety Tier 5 members (except Deputy Sheriffs) pay 4% of salary
  - o For Deputy Sheriffs in Plans 1, 2, 4, and 5, the cost-sharing contribution rate is 4.5% of salary if age 45 and older or with more than 15 years of service. For ages under 45, 3% of salary if less than 5 years of service and 3.5% of salary for between 5 and 15 years of service.

For PEPRA members (Tier 7), the employee contributions rates are equal to 50% of the total normal cost rates for each group.

Non-PEPRA Safety members with 30 or more years of service (and General members hired on or before March 7, 1973) are exempt from paying Basic member contributions. However, it is our understanding that COLA and cost sharing contributions are required to be paid regardless of service.

We have verified the calculations of the individual employee contribution rates based on the applicable provisions of the CERL and generally have found these rates to be correct. Our Basic (non-COLA) rates were within 1% of Milliman's rates for all Legacy tiers, and our total member



#### SECTION II – REVIEW OF ACTUARIAL VALUATION RESULTS

rates are generally within 5% of Milliman's for all non-PEPRA tiers, as demonstrated in the following tables. There are two exceptions within the Safety and Probation Plan 2, both which have a limited population where minor differences in programming can cause larger variances. Finally, we concur that Milliman's calculations can be relied upon.

Table II-6 Member Contribution Rates Comparison by Plan Sample Entry Age 25						
Plan	Milli	man	Che	iron	Ra	tio
	Basic	Total	Basic	Total	Basic	Total
General Plan 1	8.07%	10.89%	8.02%	11.12%	99%	102%
General Plan 2	8.07%	11.45%	8.02%	11.12%	99%	97%
General Plan 4	7.78%	9.93%	7.73%	9.70%	99%	98%
General Plan 5	6.86%	8.72%	6.82%	8.50%	99%	97%
Safety Plan 2	11.12%	17.91%	11.05%	19.41%	99%	108%
Safety Plan 4	10.68%	15.27%	10.62%	14.84%	99%	97%
Safety Plan 5	10.68%	14.87%	10.62%	14.42%	99%	97%
Probation Plan 2	11.12%	18.01%	11.05%	28.13%	99%	156%
Probation Plan 4	10.68%	15.14%	10.62%	14.77%	99%	98%
Probation Plan 5	10.68%	14.55%	10.62%	14.14%	99%	97%

Table II-7 Member Contribution Rates Comparison by Plan Sample Entry Age 35						
Plan	Milli	iman	Che	iron	Ra	tio
	Basic	Total	Basic	Total	Basic	Total
General Plan 1	9.27%	12.51%	9.24%	12.81%	100%	102%
General Plan 2	9.27%	13.15%	9.24%	12.81%	100%	97%
General Plan 4	8.94%	11.41%	8.91%	11.18%	100%	98%
General Plan 5	7.88%	10.01%	7.84%	9.77%	99%	98%
Safety Plan 2	12.52%	20.17%	12.48%	21.92%	100%	109%
Safety Plan 4	12.03%	17.20%	11.99%	16.75%	100%	97%
Safety Plan 5	12.03%	16.75%	11.99%	16.28%	100%	97%
Probation Plan 2	12.52%	20.28%	12.48%	31.77%	100%	157%
Probation Plan 4	12.03%	17.05%	11.99%	16.67%	100%	98%
Probation Plan 5	12.03%	16.39%	11.99%	15.96%	100%	97%



#### SECTION II – REVIEW OF ACTUARIAL VALUATION RESULTS

Table II-8 Member Contribution Rates Comparison by Plan Sample Entry Age 45						
Plan	Milli	iman	Che	iron	Ra	tio
	Basic	Total	Basic	Total	Basic	Total
General Plan 1	10.68%	14.42%	10.66%	14.78%	100%	103%
General Plan 2	10.68%	15.15%	10.66%	14.78%	100%	98%
General Plan 4	10.25%	13.09%	10.23%	12.84%	100%	98%
General Plan 5	9.07%	11.53%	9.05%	11.28%	100%	98%
Safety Plan 2	14.18%	22.84%	14.17%	24.89%	100%	109%
Safety Plan 4	13.36%	19.10%	13.30%	18.58%	100%	97%
Safety Plan 5	13.36%	18.60%	13.30%	18.06%	100%	97%
Probation Plan 2	14.18%	22.97%	14.17%	36.07%	100%	157%
Probation Plan 4	13.36%	18.94%	13.30%	18.50%	100%	98%
Probation Plan 5	13.36%	18.21%	13.30%	17.71%	100%	97%

We developed the COLA loading factors using the same methodology that Milliman employs. The Milliman methodology is commonly used by '37 Act Associations (determining Basic rates and then applying a COLA load based on each year's valuation results) and appears to meet the requirement that "Any increases in contribution shall be shared equally between the county or district and the contributing members" (CERL 31873). However, for some of our '37 Act clients we use an alternative methodology for determining employee COLA contribution rates, which involves calculating a distinct COLA rate for each individual entry-age, rather than applying a certain percentage load to the Basic rates. This methodology has the advantage of avoiding annual changes to the COLA contribution rates; the COLA rates will only change if there is a modification to the benefit provisions or actuarial assumptions. We are happy to discuss this methodology with Milliman and/or SamCERA upon request.

We calculated PEPRA member contribution rates for General, Safety, and Probation Tier 7 and our results are within 5% of Milliman's, as can be seen in our match shown for the Total Normal Cost for Tier 7 in Table II-5 (since the PEPRA member rates are exactly 50% of the Total Normal Cost rates).



#### SECTION II – REVIEW OF ACTUARIAL VALUATION RESULTS

#### **Census Data**

Both the SamCERA Staff and Milliman provided us with the data that was used in the June 30, 2023 actuarial valuation. We reviewed the information in both files and reviewed the data questions provided to SamCERA by Milliman and the SamCERA responses.

We find that the data used in the valuation is valid, complete, and contains the necessary data elements for purposes of performing the actuarial valuation of SamCERA.

We noted discrepancies in our replication of Contingent Vested Member census data based on the raw data provided by SamCERA. Upon investigation, Milliman noted that irrelevant records appeared in a prior valuation cycle after a change in pension administration. They considered and investigated these records. This consideration complies with relevant ASOPs, although we recommend SamCERA and Milliman work to reduce these extraneous records in the future. We consider the final census data used in the June 30, 2023 valuation to be accurate without material concern for these extraneous records on the accurately valuation results.

In our prior review, we recommended that Milliman and SamCERA collaborate to use an entry age inclusive of prior reciprocal service, for the determination of member contribution rates. This appears to be complete, based on available census data fields.

In general, we found that the methods and requirements provided in ASOP No. 23 *Data Quality* have been adhered to, to the extent applicable for the valuation of pension plan obligations.



#### SECTION II – REVIEW OF ACTUARIAL VALUATION RESULTS

Summary of Me	Table II-9 ember Data as of	June 30, 2023	
	Milliman	Cheiron	Ratio
Active Members			
General			
Total Number	4,727	4,727	100.0%
Average Age	45.1	45.1	100.0%
Average Service	9.9	9.9	100.0%
Total Annual Pay Rate	\$580,720,537	\$576,823,697	99.3%
Monthly Average Rate	\$10,238	\$10,169	99.3%
Safety			
Total Number	461	461	100.0%
Average Age	41.8	41.8	100.0%
Average Service	9.9	9.9	100.0%
Total Annual Pay Rate	\$77,328,798	\$76,818,668	99.3%
Monthly Average Rate	\$13,978	\$13,886	99.3%
Probation			
Total Number	146	146	100.0%
Average Age	43.6	43.6	100.0%
Average Service	15.4	15.4	100.0%
Total Annual Pay Rate	\$19,267,698	\$19,148,807	99.4%
Monthly Average Rate	\$10,998	\$10,930	99.4%
Grand Total			
Total Number	5,334	5,334	100.0%
Average Age	44.8	44.8	100.0%
Average Service	10.1	10.1	100.0%
Total Annual Pay Rate	677,317,033	672,791,172	99.3%
Monthly Average Rate	\$10,582	\$10,511	99.3%
Vested Terminated Members			
General			
Total Number	1,413	1,304	92.3%
Average Age	48.2	47.6	98.8%
Safety			
Total Number	82	74	90.2%
Average Age	42.0	39.3	93.6%
Probation			
Total Number	56	47	83.9%
Average Age	47.6	46.5	97.9%
Contingent Vested Members			
General			
Total Number	824	1,376	167.0%
Average Age	41.0	44.6	108.9%
Safety			
Total Number	35	52	148.6%
Average Age	39.3	44.2	112.5%
Probation			
Total Number	14	32	228.6%
Average Age	34.2	41.1	120.2%



#### SECTION II – REVIEW OF ACTUARIAL VALUATION RESULTS

	Table II-10		
Summary of Men		June 30, 2023	
	Milliman	Cheiron	Ratio
Healthy Retirees			
General			
Total Number	3,965	3,992	100.7%
Total Monthly Benefit	\$15,621,805	\$15,645,281	100.2%
Average Monthly Benefit	\$3,940	\$3,919	99.5%
Safety			100.00/
Total Number	462	462	100.0%
Total Monthly Benefit	\$3,964,537 \$8,581	\$3,964,537	100.0% 100.0%
Average Monthly Benefit Probation	\$0,301	\$8,581	100.076
Total Number	273	272	99.6%
Total Monthly Benefit	\$1,515,678	\$1,514,867	99.9%
Average Monthly Benefit	\$5,552	\$5,569	100.3%
Disabled Retirees	**,***	42,243	
General			
Total Number	359	358	99.7%
Total Monthly Benefit	\$1,219,864	\$1,214,607	99.6%
Average Monthly Benefit	\$3,398	\$3,393	99.8%
Safety			
Total Number	130	130	100.0%
Total Monthly Benefit	\$904,848	\$904,848	100.0%
Average Monthly Benefit	\$6,960	\$6,960	100.0%
Probation			
Total Number	19	19	100.0%
Total Monthly Benefit	\$87,266	\$87,266	100.0%
Average Monthly Benefit Beneficiaries	\$4,593	\$4,593	100.0%
General			
Total Number	497	495	99.6%
Total Monthly Benefit	\$1,186,603	\$1,179,463	99.4%
Average Monthly Benefit	\$2,388	\$2,383	99.8%
Safety	<del>+=,-</del>	7-,000	
Total Number	87	87	100.0%
Total Monthly Benefit	\$467,786	\$467,786	100.0%
Average Monthly Benefit	\$5,377	\$5,377	100.0%
Probation			
Total Number	23	23	100.0%
Total Monthly Benefit	\$69,560	\$69,560	100.0%
Average Monthly Benefit	\$3,024	\$3,024	100.0%
All Retirees			
General	4.004	4010	100 50/
Total Number	4,894	4,919	100.5%
Average Age	72.5	72.4	99.9%
Total Monthly Benefit	18,111,033.9	\$18,123,664	100.1%
Average Monthly Benefit Safety	\$3,701	\$3,684	99.6%
Total Number	718	718	100.0%
Average Age	67.6	67.6	100.0%
Total Monthly Benefit	5,418,048	\$5,418,048	100.0%
Average Monthly Benefit	\$7,546	\$7,546	100.0%
Probation	<i>41,010</i>	Ψ,,ε.σ	0.073
Total Number	320	317	99.1%
Average Age	65.7	65.5	99.8%
Total Monthly Benefit	1,681,081	\$1,677,733	99.8%



#### SECTION II – REVIEW OF ACTUARIAL VALUATION RESULTS

#### **Plan Provisions**

We compared the summary of plan provisions shown in Appendix B of Milliman's Actuarial Valuation Report to the benefits in the County Employees Retirement Law of 1937 (CERL). In general, the plan provisions shown in Milliman's exhibit match what is in the CERL; based on our match of the Milliman liabilities as part of our parallel valuation, we conclude that Milliman has appropriately reflected these provisions in the actuarial valuation.

#### **Actuarial Assumptions**

The June 30, 2023 actuarial valuation was based on the assumptions adopted by the SamCERA Board in May and July of 2023, based on recommendations made by Milliman. Refer to our review report of the Milliman Experience Study for our comments and recommendation with respect to the actuarial assumptions.



#### SECTION III – REVIEW OF ACTUARIAL METHODS

#### **Actuarial Methods**

Actuarial methods relate to the application of actuarial assumptions in the determination of Plan liabilities and contributions. These methods include the actuarial cost method, amortization policy (which Cheiron reviewed in our Review of Investigation of Experience Report dated July 2023), actuarial asset smoothing, and cost-sharing methodologies. The questions guiding our review of the actuarial methods were the following:

- Are the methods acceptable and appropriate for the intended purpose?
- Do the methods comply with relevant accounting and actuarial standards?

#### **Actuarial Cost Method**

The individual Entry Age actuarial cost method is used in the June 30, 2023 actuarial valuation. Under this method, the expected cost of benefits for each individual member is allocated over that member's career as a level percentage of that member's expected salary. The normal cost for the plan is the sum of the individual normal costs calculated for each member. We concur with this methodology and note that it is a "Model Practice" based on the guidance issued by the California Actuarial Advisory Panel (CAAP), and a "Best Practice" based on guidance issued by the Government Finance Officers Association. Milliman has also applied this method in a manner which complies with the disclosure requirements under GASB Statements 67 and 68.

#### **Asset Smoothing Method**

The Actuarial (or smoothed) Value of Assets is determined using a five-year period, considered semi-annually, for investment gains and losses, and includes an 80% to 120% corridor below and above the Market Value of Assets. Beginning with the June 30, 2019 valuation, Milliman began a practice of directly and immediately offsetting any current period gains or losses against prior period unrecognized gains or losses, starting from the oldest unrecognized amounts.

In our opinion, the methods used by SamCERA satisfy the Actuarial Standard of Practice that governs asset valuation methods (ASOP No. 44), which requires that the actuarial asset value should fall within a "reasonable range around the corresponding market value" and that differences between the actuarial and the market value should be "recognized within a reasonable period of time."

We have confirmed that Milliman has applied the actuarial smoothing method as described in their report.

#### **Cost-Sharing Methods**

SamCERA is a cost-sharing plan, wherein the assets of the Plan are available to fund the benefits of all members. This is different from an approach in which specific asset pools are tracked and held separately for each employer. As a result, methods and assumptions must be used to assign portions of the unfunded accrued liability to the different employment groups, including



#### SECTION III – REVIEW OF ACTUARIAL METHODS

adjustments made to various groups' cost calculations as a result of specific circumstances or policies.

SamCERA maintains separate reserves for the County and District Supplementary Contribution Account (SCA) Reserves. We did not verify the calculation of these reserves by SamCERA, but we did verify Milliman's calculations of the five-year smoothing of these reserves to determine the actuarial values, as well as the detail of the amortization calculations used to determine the SCA contribution offsets.

SamCERA does not maintain separate reserves or accounts for the General, Safety, and Probation groups. However, an allocation of the valuation assets amongst these groups is performed by Milliman, in order to develop the UAL for each group and the resulting amortization rate. We verified the results of the calculations shown in Exhibit 8 of Milliman's report. As Segal observed in the prior audit, this methodology could result in cross-subsidization between the groups if the distribution of liability gains and losses is uneven. However, we have used similar methodologies with some of our own 1937 Act clients and find that the benefits of pooling experience across classes – such as simplified administration and accounting – may outweigh these challenges, and we find this to be a reasonable methodology for allocating the UAL.



#### SECTION IV – CONTENTS OF REPORT

#### **Contents of the Report**

We find the actuarial valuation report to be in compliance with the Actuarial Standards of Practice (ASOP).

Beginning with reports issued after February 15, 2023 for measurement dates after the same date, ASOP No. 4 *Measuring Pension Obligations* now requires the disclosure of a Low-Default-Risk Obligation Measure (LDROM) under an alternative discount rate "derived from low-default-risk fixed income securities." Milliman has included this measure in Section 8 *Risk Discussion*, based on the Bond Buyer General Obligation 20-Bond Municipal Bond Index with a discount rate of 3.65%. This complies with the updated requirements of ASOP No. 4.

Milliman's report also complies with other revisions under ASOP #4 since Milliman continues to follow the guidance of the California Actuarial Advisory Panel (CAAP) and the Conference of Consulting Actuaries (CCA) when developing funding policies.

The GFOA guidelines revised the name of the *Solvency Test* to *Funded Liabilities by Type*. We suggest that Milliman update the name of this exhibit in their report.

#### **Projections**

We commend Milliman for including baseline projections of the employer contribution rates, assuming all actuarial assumptions are met after June 30, 2023 and reflecting the scheduled recognition of asset gains and losses currently being deferred. It would be helpful if there was language explaining whether or not the projections include the cost-sharing employee contributions for all future years.

In addition to the employer contribution rate projections, we suggest that Milliman also include baseline projections of SamCERA's funded status. Projections of the funded status are useful to ensure that the actuarial funding methods and amortization policies are structured such that funding progress is expected to occur over time, which is important to be able to provide retirement benefits to all participants when they become due.

We also encourage Milliman to consider providing projections for the General, Safety, and Probations groups independently since the UAL payments as a percentage of payroll currently vary significantly from 12% to 33% of payroll.



#### APPENDIX A – GLOSSARY OF TERMS

#### 1. Actuarial Assumptions

Estimates of future experience with respect to rates of mortality, disability, turnover, retirement, investment income, and salary increases. Demographic assumptions (rates of mortality, disability, turnover, and retirement) are generally based on past experience, often modified for projected changes in conditions. Economic assumptions (salary increases and investment income) consist of an underlying rate in an inflation-free environment plus a provision for a long-term average rate of inflation.

#### 2. Actuarial Gain (Loss)

The difference between actual experience and actuarial assumption anticipated experience during the period between two actuarial valuation dates, as determined in accordance with a particular actuarial funding method.

#### 3. Actuarial Liability

The Actuarial Liability is the present value of all benefits accrued as of the valuation date using the methods and assumptions of the valuation. It is also referred to by some actuaries as the "accrued liability" or "actuarial accrued liability."

#### 4. Actuarial Present Value

The amount of funds currently required to provide a payment or series of payments in the future. It is determined by discounting future payments at predetermined rates of interest, and by probabilities of payment.

#### 5. Actuarial Value of Assets

The Actuarial Value of Assets equals the Market Value of Assets adjusted according to the smoothing method. The smoothing method is intended to smooth out the short-term volatility of investment returns in order to stabilize contribution rates and the funded status.

#### 6. Actuarial Cost Method

A mathematical budgeting procedure for allocating the dollar amount of the "actuarial present value of future plan benefits" between the actuarial present value of future normal costs and the Actuarial Liability. It is sometimes referred to as the "actuarial funding method."

#### 7. Funded Status

The Actuarial Value of Assets divided by the Actuarial Liability. The funded status can also be calculated using the Market Value of Assets.



#### APPENDIX A – GLOSSARY OF TERMS

#### 8. Governmental Accounting Standards Board

The Governmental Accounting Standards Board (GASB) defines the accounting and financial reporting requirements for governmental entities. GASB Statement No. 67 defines the plan accounting and financial reporting for governmental pension plans, and GASB Statement No. 68 defines the employer accounting and financial reporting for participating in a governmental pension plan.

#### 9. Market Value of Assets

The fair value of the Plan's assets assuming that all holdings are liquidated on the measurement date.

#### 10. Normal Cost

The annual cost assigned, under the actuarial funding method, to current and subsequent plan years. It is sometimes referred to as "current service cost." Any payment toward the unfunded Actuarial Liability is not part of the normal cost.

#### 11. Present Value of Projected Benefits

The estimated amount of assets needed today to pay for all benefits promised in the future to current members of the Plan, assuming all actuarial assumptions are met.

#### 12. Present Value of Future Normal Costs

The actuarial present value of retirement association benefits allocated to future years of service.

#### 13. Unfunded Actuarial Liability (UAL)

The difference between the Actuarial Liability and the Actuarial Value of Assets. This is sometimes referred to as the "unfunded accrued liability."





Classic Values, Innovative Advice

#### SAN MATEO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION

#### **Board of Retirement**

September 26, 2023 Agenda Item 5.4

**TO:** Board of Retirement

FROM: Scott Hood, Chief Executive Officer

**SUBJECT:** Acceptance of the Fiscal-Year 2024-2025 Employer and Member

**Contribution Rates** 

#### Recommendation

Approve the Resolution Accepting Contribution Rates to Recommend to the Board of Supervisors for the 2024-2025 Fiscal Year.

#### **Background**

At its May 23, 2023 meeting, the Board approved for use in the June 2023 valuation report, the existing economic assumptions previously adopted: investment return at 6.25%, national price inflation at 2.50%, local price inflation at 2.75%. wage growth at 3.25% and payroll growth at 3.25% and COLA assumption for Plans 1 and 2 be set in accordance with the local inflation assumption. At its July 25, 2023 meeting, the Board adopted recommended changes to the demographic assumptions to be used based on Milliman's Investigation of Experience, July 1, 2020 – April 30, 2023.

#### Discussion

The highlights of the June 2023 actuarial valuation report include the following elements:

Funding: SamCERA's funded ratio decreased by 2.4 percentage points from 90.7% to 88.3%. This decrease was mainly due to the impact of the assumption changes and the recognition of deferred losses. The employer's portion of the Statutory Contribution Rate (SCR) that is used to finance the UAAL decreased from 16.04% to 14.89% of pay. The County contributed to its Supplemental Contribution Accounts (SCA) this year, but the District did not. Together their supplemental account balances totaled \$224.8M and added 3.2% to the funded ratio.

Contribution Rates: The Employer Normal Cost increased from 11.37% to 11.75% of pay. The increase was primarily due to the changes in demographic assumptions. This increase in Employer Normal Cost is largely driven by salary and payroll increases greater than assumed and retiree cola increases greater than expected. As noted above, the portion of the employer's SCR used to finance the UAAL decreased from 16.04% to 14.89% of pay. The net result is an increase in the aggregate SCR from the prior valuation report of .45% (from 26.19% to 26.64% of total employer payroll).

The value of the County's CSCA helped to limit the increase in the SCR. The County's SCR would have increased to 31.1% of payroll, however, when the value of the County's CSCA account is factored in the calculation, the County's contribution rate only increased by .43% to 26.62% of payroll. Similarly, when the District's DSCA was factored in, its rate increased to 28.03% rather than 28.13% of payroll as nearly all the funds in the DSCA have been recognized.

*Investment Returns:* SamCERA's investment return on the market value of assets of 6.0% for fiscal year 2022-23, was less than the actuarial assumed rate of 6.5 %. Combined with the recognition of deferred investment losses from prior years, the net result was a return on the actuarial value of valuation assets of 4.5%, which is less than the assumed return.

*Member Rates:* Basic member rates and member COLA rates will increase for all plans due to the new economic assumptions adopted by the Board at its May 23, 2023 meeting and the new demographic assumptions adopted by the Board at its July 25, 2023 meeting.

#### **Summary of Recommendation**

The following tables summarize Milliman's 2024-25 recommended Statutory Contribution Rates and Employer and Member Contribution rates for the Board. Staff provided this rate information to the County Manager's Office, the County's Human Resources Director, to the Court Executive Officer and to the Manager of the Mosquito Abatement and Vector Control District.

Recommendation #1: Adopt the following new Statutory Contribution Rates for fiscal year beginning July 1, 2024:

Recommendation #1: Adopt new Statutory Contribution Rates for fiscal year beginning July 1, 2024				
	Fiscal Year I	Beginning	Increase /	
	July 1, 2024	July 1, 2023	(Decrease)	
Gross Normal Cost	24.16%	23.64%	0.52%	
Member Contributions	(12.41)%	(12.27)%	(0.14)%	
Employer Normal Cost	11.75%	11.37%	0.38%	
UAAL Amortization	14.89%	16.04%	(1.15)%	
Calculated Employer Rate	26.64%	27.41%	(0.77)%	
Deferred Recognition of 2021 Assumptions		(1.22)%	1.22%	
Total Employer Rate	26.64%	26.19%	0.45%	
County Contribution Rate	26.62%	26.19%	0.43%	
Courts Contribution Rate	26.35%	26.02%	0.33%	
SMCM&VCD Contribution Rate	28.03%	25.06%	2.97%	

#### Notes:

- 1. Detailed contribution rates by plan are shown in Section 6.
- 2. The Total Employer Statutory Contribution Rate of 26.64% is the aggregate rate for all employers.
- 3. The UAAL Amortization rate (before SCA offset) for each member class is the greater of the FYB 2023 UAAL Amortization rate (with phase-in and before SCA offset) for the respective class and those calculated in this year's valuation (shown in Exhibits 12a 12c).

Recommendation #2: Adopt the new member contribution rates for fiscal year beginning July 1, 2024 as shown in the actuarial valuation.

SamCERA staff reviewed the valuation report and its recommendations and discussed them with Milliman, Inc. in order to confirm our understanding. Staff supports the results and recommendations of the valuation.

#### Attachment

Resolution Accepting Contribution Rates to Recommend to the Board of Supervisors for the 2024-2025 Fiscal Year

## SAN MATEO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION Board of Retirement

## RESOLUTION ACCEPTING CONTRIBUTION RATES TO RECOMMEND TO THE BOARD OF SUPERVISORS FOR THE 2024-2025 FISCAL YEAR.

#### **RESOLUTION 2023-**

- Whereas, Government Code §31453 mandates the periodic actuarial valuation of the Retirement Fund and requires that the Board..." shall, at least 45 days prior to the beginning of the succeeding fiscal year, recommend to the Board of Supervisors such changes in the rates of interest, in the rates of contributions of members, and in the county and district appropriations as are necessary...;" and
- **WHEREAS**, the Board has received and accepted the June 30, 2023, valuation report from its actuarial firm, Milliman, Inc., and
- **WHEREAS,** the Chief Executive Officer has recommended, in agreement with Milliman, Inc., the contribution rates necessary to assure the actuarial soundness of the Retirement Fund, *Therefore, be it*
- **RESOLVED** that the Board hereby accepts the employer and member contribution rates as recommended by Milliman, Inc. in its June 30, 2023, Actuarial Valuation of the San Mateo County Employees' Retirement Association effective for the fiscal year 2024-2025.

  \*\*Be it further\*\*
- **RESOLVED** that the Board recommends that the Board of Supervisors adopt the recommended **employer contribution rates** for the County of San Mateo, the San Mateo Superior Court and the San Mateo County Mosquito & Vector Control District in accordance with the schedules provided by Milliman, Inc. in its June 30, 2023, Actuarial Valuation, effective July 1, 2024.

Be it further

RESOLVED that the Board of Retirement hereby recommends that the Board of Supervisors adopt the recommended member contribution rates for SamCERA active members of the County of San Mateo, the San Mateo County Superior Court and the San Mateo County Mosquito & Vector Control District in accordance with the schedules provided by Milliman, Inc. in its June 30, 2023, Actuarial Valuation, effective July 1, 2024.

Be it further

**RESOLVED** that the Chief Executive Officer is hereby authorized to transmit the attached rates and recommendations to the Board of Supervisors and to take all actions necessary to provide for their implementation effective July 1, 2024.

# SAN MATEO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION RATES OF CONTRIBUTIONS FOR ALL ACTIVE MEMBERS AND PARTICPIATING EMPLOYERS FOR THE 2024-2025 FISCAL YEAR

#### 1. ACTIVE MEMBER CONTRIBUTION RATES

Appendix D	Member Contribution Rates-Plan 7
Exhibit D-1	General Member Contribution Rates (including SMCM&VCD*)
Exhibit D-2	Safety/Probation Member Rates
Exhibit D-3	General Member Contribution Rates (excluding SMCM&VCD)
Exhibit D-4	Safety Member Rates
Exhibit D-5	Probation Member Rates

#### 2. EMPLOYER CONTRIBUTION RATES

Exhibit 10	Employer Statutory Rates-All Plans
Exhibit 10a	Employer Statutory Rates-General Members
Exhibit 10b	Employer Statutory Rates-SMCM&VCD
Exhibit 10c	Employer Statutory Rates-Safety Members
Exhibit 10d	Employer Statutory Rates-Probation Members

<sup>\*&</sup>quot;SMCM&VCD" refers to the San Mateo County Mosquito and Vector Control District.

#### **Appendix D** Member Contribution Rates

This section illustrates the member basic contribution rates and COLA sharing contribution rates by entry age for Plans 1 through 6. For different COLA sharing percentages, the COLA contribution rates may be adjusted ratably, and should be rounded to two decimal places.

Member contribution rates for Plan 7 are not defined by entry age. Plan 7 members contribute 50% of the total Normal Cost rate. For the 2024-2025 fiscal year, Plan 7 member contribution rates are:

General Plan 7 members: 9.63%

SMCM&VCD Plan 7 members: 9.69%

Safety Plan 7 members: 15.91%

Probation Plan 7 members: 16.23%

Please refer to Appendix B for a detailed description of member contribution rates.

Exhibit D-1
General Member Contribution Rates (including SMCM&VCD)

**Basic Member Rates** 

			SIC MEITIDEL RAI		OMOMOVOD	
(4)	•	neral & SMCM8		General	SMCM&VCD	
Entry Age <sup>(1)</sup>	Plans 1&2	Plan 4	Plan 5	Plan 7	Plan 7	
16	7.12%	6.86%	6.05%	9.63%	9.69%	
17	7.22%	6.96%	6.13%	9.63%	9.69%	
18	7.32%	7.06%	6.22%	9.63%	9.69%	
19	7.42%	7.16%	6.31%	9.63%	9.69%	
20	7.53%	7.26%	6.40%	9.63%	9.69%	
21	7.63%	7.36%	6.49%	9.63%	9.69%	
22	7.74%	7.46%	6.58%	9.63%	9.69%	
23	7.85%	7.56%	6.67%	9.63%	9.69%	
24	7.95%	7.67%	6.76%	9.63%	9.69%	
25	8.07%	7.78%	6.86%	9.63%	9.69%	
26	8.18%	7.88%	6.96%	9.63%	9.69%	
27	8.29%	7.99%	7.05%	9.63%	9.69%	
28	8.41%	8.11%	7.15%	9.63%	9.69%	
29	8.53%	8.22%	7.25%	9.63%	9.69%	
30	8.64%	8.33%	7.35%	9.63%	9.69%	
31	8.77%	8.45%	7.45%	9.63%	9.69%	
32	8.89%	8.57%	7.56%	9.63%	9.69%	
33	9.01%	8.69%	7.66%	9.63%	9.69%	
34	9.14%	8.81%	7.77%	9.63%	9.69%	
35	9.27%	8.94%	7.88%	9.63%	9.69%	
36	9.41%	9.07%	7.99%	9.63%	9.69%	
37	9.54%	9.20%	8.10%	9.63%	9.69%	
38	9.68%	9.33%	8.22%	9.63%	9.69%	
39	9.83%	9.46%	8.33%	9.63%	9.69%	
40	9.97%	9.60%	8.45%	9.63%	9.69%	
41	10.11%	9.73%	8.57%	9.63%	9.69%	
42	10.25%	9.86%	8.70%	9.63%	9.69%	
43	10.39%	9.99%	8.82%	9.63%	9.69%	
44	10.53%	10.12%	8.95%	9.63%	9.69%	
45	10.68%	10.25%	9.07%	9.63%	9.69%	
46	10.83%	10.38%	9.20%	9.63%	9.69%	
47	10.97%	10.50%	9.32%	9.63%	9.69%	
48	11.11%	10.61%	9.45%	9.63%	9.69%	
49	11.24%	10.69%	9.57%	9.63%	9.69%	
50	11.35%	10.74%	9.69%	9.63%	9.69%	
51	11.44%	10.74%	9.81%	9.63%	9.69%	
52	11.47%	10.74%	9.93%	9.63%	9.69%	
53	11.47%	10.97%	10.03%	9.63%	9.69%	
54 55	11.47%	11.30%	10.11%	9.63%	9.69%	
55 56	11.47%	11.30%	10.15%	9.63%	9.69%	
56 57	11.47%	11.30%	10.15%	9.63%	9.69%	
57 59	11.47%	11.30%	10.15%	9.63%	9.69%	
58 50	11.47%	11.30%	10.37%	9.63%	9.69%	
59 60	11.47% 11.47%	11.30% 11.30%	10.68% 10.68%	9.63%	9.69%	
60	11.4170	11.30%	10.00%	9.63%	9.69%	

<sup>1.</sup> For General and SMCM&VCD members entering after age 60, the rate equals the rate at age 60.

Exhibit D-2 Safety/Probation Member Contribution Rates

#### **Basic Member Rates**

	Dasic Member Rates							
	Safety &	Probation	Safety	Probation				
Entry Age (1)	Plans 1&2	Plans 4&5&6	Plan 7	Plan 7				
16	10.02%	9.63%	15.91%	16.23%				
17	10.14%	9.74%	15.91%	16.23%				
18	10.25%	9.85%	15.91%	16.23%				
19	10.37%	9.97%	15.91%	16.23%				
20	10.49%	10.08%	15.91%	16.23%				
21	10.62%	10.20%	15.91%	16.23%				
22	10.74%	10.32%	15.91%	16.23%				
23	10.86%	10.44%	15.91%	16.23%				
24	10.99%	10.56%	15.91%	16.23%				
25	11.12%	10.68%	15.91%	16.23%				
26	11.25%	10.81%	15.91%	16.23%				
27	11.38%	10.94%	15.91%	16.23%				
28	11.51%	11.06%	15.91%	16.23%				
29	11.65%	11.19%	15.91%	16.23%				
30	11.79%	11.33%	15.91%	16.23%				
31	11.93%	11.46%	15.91%	16.23%				
32	12.07%	11.60%	15.91%	16.23%				
33	12.22%	11.74%	15.91%	16.23%				
34	12.37%	11.89%	15.91%	16.23%				
35	12.52%	12.03%	15.91%	16.23%				
36	12.68%	12.19%	15.91%	16.23%				
37	12.85%	12.34%	15.91%	16.23%				
38	13.02%	12.50%	15.91%	16.23%				
39	13.19%	12.66%	15.91%	16.23%				
40	13.37%	12.81%	15.91%	16.23%				
41	13.54%	12.97%	15.91%	16.23%				
42	13.72%	13.11%	15.91%	16.23%				
43	13.89%	13.24%	15.91%	16.23%				
44	14.05%	13.33%	15.91%	16.23%				
45	14.18%	13.36%	15.91%	16.23%				
46	14.26%	13.36%	15.91%	16.23%				
47	14.27%	13.36%	15.91%	16.23%				
48	14.27%	13.60%	15.91%	16.23%				
49	14.27%	14.01%	15.91%	16.23%				
50	14.27%	14.01%	15.91%	16.23%				

<sup>1.</sup> For Safety and Probation members entering after age 50, the rate equals the rate at age 50.

Exhibit D-3
General Member Contribution Rates (except SMCM&VCD)

	50% Member COLA Rates							
Entry Age (1)	Plan 1	Plan 2	Plan 4	Plan 5				
16	2.49%	2.98%	1.90%	1.64%				
17	2.53%	3.02%	1.93%	1.66%				
18	2.56%	3.06%	1.95%	1.68%				
19	2.60%	3.11%	1.98%	1.71%				
20	2.64%	3.15%	2.01%	1.73%				
21	2.67%	3.19%	2.04%	1.76%				
22	2.71%	3.24%	2.06%	1.78%				
23	2.75%	3.29%	2.09%	1.81%				
24	2.78%	3.33%	2.12%	1.83%				
25	2.82%	3.38%	2.15%	1.86%				
26	2.86%	3.42%	2.18%	1.88%				
27	2.90%	3.47%	2.21%	1.91%				
28	2.94%	3.52%	2.24%	1.94%				
29	2.99%	3.57%	2.27%	1.96%				
30	3.02%	3.62%	2.30%	1.99%				
31	3.07%	3.67%	2.34%	2.02%				
32	3.11%	3.72%	2.37%	2.05%				
33	3.15%	3.77%	2.40%	2.07%				
34	3.20%	3.83%	2.44%	2.10%				
35	3.24%	3.88%	2.47%	2.13%				
36	3.29%	3.94%	2.51%	2.16%				
37	3.34%	3.99%	2.54%	2.19%				
38	3.39%	4.05%	2.58%	2.23%				
39	3.44%	4.11%	2.62%	2.26%				
40	3.49%	4.17%	2.66%	2.29%				
41	3.54%	4.23%	2.69%	2.32%				
42	3.59%	4.29%	2.73%	2.36%				
43	3.64%	4.35%	2.76%	2.39%				
44	3.69%	4.41%	2.80%	2.42%				
45 46	3.74% 3.79%	4.47%	2.84%	2.46%				
46 47	3.84%	4.53% 4.59%	2.87% 2.90%	2.49% 2.52%				
48	3.89%	4.65%	2.93%	2.56%				
49	3.93%	4.70%	2.96%	2.59%				
50	3.97%	4.75%	2.97%	2.62%				
51	4.00%	4.79%	2.97%	2.66%				
52	4.01%	4.80%	2.97%	2.69%				
53	4.01%	4.80%	3.03%	2.72%				
54	4.01%	4.80%	3.13%	2.74%				
55	4.01%	4.80%	3.13%	2.75%				
56	4.01%	4.80%	3.13%	2.75%				
57	4.01%	4.80%	3.13%	2.75%				
58	4.01%	4.80%	3.13%	2.81%				
59	4.01%	4.80%	3.13%	2.89%				
60	4.01%	4.80%	3.13%	2.89%				

<sup>1.</sup> For General and SMCM&VCD members entering after age 60, the rate equals the rate at age 60.

Exhibit D-4
Safety Member Contribution Rates

50% Member COLA Rates

	50% Member COLA Rates						
Entry Age (1)	Plan 1	Plan 2	Plan 4	Plan 5	Plan 6		
16	4.80%	6.12%	4.14%	3.78%	3.13%		
17	4.86%	6.19%	4.19%	3.82%	3.16%		
18	4.91%	6.26%	4.23%	3.87%	3.20%		
19	4.97%	6.34%	4.29%	3.91%	3.24%		
20	5.03%	6.41%	4.33%	3.96%	3.27%		
21	5.09%	6.49%	4.38%	4.00%	3.31%		
22	5.15%	6.56%	4.44%	4.05%	3.35%		
23	5.21%	6.63%	4.49%	4.10%	3.39%		
24	5.27%	6.71%	4.54%	4.14%	3.43%		
25	5.33%	6.79%	4.59%	4.19%	3.47%		
26	5.39%	6.87%	4.65%	4.24%	3.51%		
27	5.45%	6.95%	4.70%	4.29%	3.55%		
28	5.52%	7.03%	4.75%	4.34%	3.59%		
29	5.58%	7.12%	4.81%	4.39%	3.63%		
30	5.65%	7.20%	4.87%	4.45%	3.68%		
31	5.72%	7.29%	4.93%	4.50%	3.72%		
32	5.79%	7.37%	4.99%	4.55%	3.77%		
33	5.86%	7.47%	5.05%	4.61%	3.81%		
34	5.93%	7.56%	5.11%	4.67%	3.86%		
35	6.00%	7.65%	5.17%	4.72%	3.91%		
36	6.08%	7.75%	5.24%	4.78%	3.96%		
37	6.16%	7.85%	5.30%	4.84%	4.01%		
38	6.24%	7.95%	5.37%	4.91%	4.06%		
39	6.32%	8.06%	5.44%	4.97%	4.11%		
40	6.41%	8.17%	5.51%	5.03%	4.16%		
41	6.49%	8.27%	5.57%	5.09%	4.21%		
42	6.58%	8.38%	5.63%	5.15%	4.26%		
43	6.66%	8.49%	5.69%	5.20%	4.30%		
44	6.73%	8.58%	5.73%	5.23%	4.33%		
45	6.80%	8.66%	5.74%	5.24%	4.34%		
46	6.83%	8.71%	5.74%	5.24%	4.34%		
47	6.84%	8.72%	5.74%	5.24%	4.34%		
48	6.84%	8.72%	5.85%	5.34%	4.42%		
49	6.84%	8.72%	6.02%	5.50%	4.55%		
50	6.84%	8.72%	6.02%	5.50%	4.55%		

<sup>1.</sup> For Safety members entering after age 50, the rate equals the rate at age 50.

Exhibit D-5
Probation Member Contribution Rates

50% Member COLA Rates

	50% Member COLA Rates							
Entry Age <sup>(1)</sup>	Plan 1	Plan 2	Plan 4	Plan 5	Plan 6			
16	5.33%	6.21%	4.02%	3.49%	2.93%			
17	5.40%	6.28%	4.06%	3.53%	2.96%			
18	5.45%	6.35%	4.11%	3.57%	3.00%			
19	5.52%	6.43%	4.16%	3.62%	3.03%			
20	5.58%	6.50%	4.21%	3.66%	3.07%			
21	5.65%	6.58%	4.26%	3.70%	3.10%			
22	5.71%	6.66%	4.31%	3.74%	3.14%			
23	5.78%	6.73%	4.36%	3.79%	3.18%			
24	5.85%	6.81%	4.41%	3.83%	3.21%			
25	5.92%	6.89%	4.46%	3.87%	3.25%			
26	5.99%	6.97%	4.51%	3.92%	3.29%			
27	6.06%	7.05%	4.57%	3.97%	3.33%			
28	6.12%	7.13%	4.62%	4.01%	3.37%			
29	6.20%	7.22%	4.67%	4.06%	3.41%			
30	6.27%	7.31%	4.73%	4.11%	3.45%			
31	6.35%	7.39%	4.78%	4.16%	3.49%			
32	6.42%	7.48%	4.84%	4.21%	3.53%			
33	6.50%	7.57%	4.90%	4.26%	3.57%			
34	6.58%	7.67%	4.96%	4.31%	3.62%			
35	6.66%	7.76%	5.02%	4.36%	3.66%			
36	6.75%	7.86%	5.09%	4.42%	3.71%			
37	6.84%	7.96%	5.15%	4.48%	3.76%			
38	6.93%	8.07%	5.22%	4.54%	3.81%			
39	7.02%	8.18%	5.28%	4.59%	3.85%			
40	7.11%	8.29%	5.35%	4.65%	3.90%			
41	7.20%	8.39%	5.41%	4.71%	3.95%			
42	7.30%	8.50%	5.47%	4.76%	3.99%			
43	7.39%	8.61%	5.53%	4.80%	4.03%			
44	7.48%	8.71%	5.56%	4.84%	4.06%			
45	7.55%	8.79%	5.58%	4.85%	4.07%			
46	7.59%	8.84%	5.58%	4.85%	4.07%			
47	7.59%	8.84%	5.58%	4.85%	4.07%			
48	7.59%	8.84%	5.68%	4.93%	4.14%			
49	7.59%	8.84%	5.85%	5.08%	4.26%			
50	7.59%	8.84%	5.85%	5.08%	4.26%			

<sup>1.</sup> For Probation members entering after age 50, the rate equals the rate at age 50.

#### Exhibit 10 Employer Statutory Contribution Rates – All Plans For the 2024-2025 Fiscal Year

#### **All Plans**

			Employer Rates						
	Gross Normal Cost	Member Contributions	Basic Normal Cost	COLA Normal Cost	Total Normal Cost	UAAL Contribution Rate (1)(2)	Total Contribution Rate	Prior Year Total Contribution Rate	
General									
County	21.83%	(11.42)%	8.11%	2.30%	10.41%	12.07%	22.48%	22.09%	
Courts	21.97%	(11.48)%	8.17%	2.32%	10.49%	15.86%	26.35%	26.02%	
Total	21.85%	(11.42)%	8.11%	2.32%	10.43%	12.26%	22.69%	22.31%	
SMCM&VCD (3)	21.35%	(9.08)%	9.03%	3.24%	12.27%	15.76%	28.03%	25.06%	
Safety	37.57%	(18.34)%	14.87%	4.36%	19.23%	29.49%	48.72%	47.35%	
Probation	38.48%	(18.28)%	15.65%	4.55%	20.20%	33.33%	53.53%	53.75%	
All Plans	24.16%	(12.41)%	9.12%	2.63%	11.75%	14.89%	26.64%	26.19%	
County Only	24.25%	(12.47)%	9.16%	2.62%	11.78%	14.84%	26.62%	26.19%	

<sup>1.</sup> The UAAL Contribution Rate for each member class is the greater of the FYB 2023 calculated UAAL Contribution Rate for the respective class and those calculated in this year's valuation (shown in Exhibits 12a - 12c).

<sup>2.</sup> County UAAL Contribution Rate includes an aggregate offset of 4.48% of payroll to reflect the County Supplementary Contributions Account.

Offsets vary by class of member as follows:

<sup>-</sup> General member UAAL offset is 3.79% of payroll

<sup>-</sup> Safety member UAAL offset is 7.48% of payroll

<sup>-</sup> Probation member UAAL offset is 11.44% of payroll

<sup>3.</sup> SMCM&VCD UAAL Contribution Rate includes an offset of 0.10% of payroll to reflect the District Supplementary Contributions Account.

## Exhibit 10a Employer Statutory Contribution Rates – General Members For the 2024-2025 Fiscal Year

#### **General Members**

			Employer Rates					
	Gross Normal Cost	Member Contributions	Basic Normal Cost	COLA Normal Cost	Total Normal Cost	UAAL Contribution Rate (1)(2)	Total Contribution Rate	Prior Year Total Contribution Rate
<u>Plan 1</u>								
County	30.59%	(14.02)%	11.70%	4.87%	16.57%	12.07%	28.64%	26.15%
Courts	30.59%	(14.02)%	11.70%	4.87%	16.57%	15.86%	32.43%	30.00%
Total	30.59%	(14.02)%	11.70%	4.87%	16.57%	12.07%	28.64%	26.15%
Plan 2								
County	26.64%	(15.09)%	7.69%	3.86%	11.55%	12.07%	23.62%	22.06%
Courts	26.64%	(15.09)%	7.69%	3.86%	11.55%	15.86%	27.41%	25.91%
Total	26.64%	(15.09)%	7.69%	3.86%	11.55%	12.24%	23.79%	22.19%
Plan 3								
County	9.39%	0.00%	9.39%	0.00%	9.39%	12.07%	21.46%	21.06%
Courts	9.39%	0.00%	9.39%	0.00%	9.39%	15.86%	25.25%	24.91%
Total	9.39%	0.00%	9.39%	0.00%	9.39%	12.20%	21.59%	21.18%
Plan 4								
County	25.03%	(14.12)%	8.22%	2.69%	10.91%	12.07%	22.98%	22.59%
Courts	25.03%	(14.12)%	8.22%	2.69%	10.91%	15.86%	26.77%	26.44%
Total	25.03%	(14.12)%	8.22%	2.69%	10.91%	12.27%	23.18%	22.79%
Plan 5								
County	23.61%	(10.20)%	10.97%	2.44%	13.41%	12.07%	25.48%	25.12%
Courts	23.61%	(10.20)%	10.97%	2.44%	13.41%	15.86%	29.27%	28.97%
Total	23.61%	(10.20)%	10.97%	2.44%	13.41%	12.31%	25.72%	25.37%
Plan 7								
County	19.26%	(9.63)%	7.73%	1.90%	9.63%	12.07%	21.70%	21.31%
Courts	19.26%	(9.63)%	7.73%	1.90%	9.63%	15.86%	25.49%	25.16%
Total	19.26%	(9.63)%	7.73%	1.90%	9.63%	12.25%	21.88%	21.50%
All Plans								
County	21.83%	(11.42)%	8.11%	2.30%	10.41%	12.07%	22.48%	22.09%
Courts	21.97%	(11.48)%	8.17%	2.32%	10.49%	15.86%	26.35%	26.02%
Total	21.85%	(11.42)%	8.11%	2.32%	10.43%	12.26%	22.69%	22.31%

<sup>1.</sup> UAAL Contribution Rate (before SCA offset) is the greater of 15.86% and the calculated UAAL Contribution Rate shown in Exhibit 12a.

<sup>2.</sup> UAAL Contribution Rate includes an offset of 3.79% of payroll to reflect the County Supplementary Contributions Account, except for Courts.

## Exhibit 10b Employer Statutory Contribution Rates – SMCM&VCD Members For the 2024-2025 Fiscal Year

#### **SMCM&VCD Members**

			Employer Rates						
	Gross Normal Cost	Member Contributions	Basic Normal Cost	COLA Normal Cost	Total Normal Cost	UAAL Contribution Rate (1)(2)	Total Contribution Rate	Prior Year Total Contribution Rate	
Plan 1 <sup>(3)</sup>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Plan 2 (3)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Plan 4	23.71%	(8.35)%	10.60%	4.76%	15.36%	15.76%	31.12%	27.92%	
Plan 7	19.38%	(9.69)%	7.73%	1.96%	9.69%	15.76%	25.45%	22.58%	
All Plans	21.35%	(9.08)%	9.03%	3.24%	12.27%	15.76%	28.03%	25.06%	

<sup>1.</sup> UAAL Contribution Rate (before SCA offset) is the greater of 15.86% and the calculated UAAL Contribution Rate shown in Exhibit 12a.

<sup>2.</sup> UAAL Contribution Rate includes an offset of 0.10% of payroll to reflect the District Supplementary Contributions Account.

<sup>3.</sup> There are currently no active Plan 1 or Plan 2 members. Employer rates will be developed in the future if needed.

## Exhibit 10c Employer Statutory Contribution Rates – Safety Members For the 2024-2025 Fiscal Year

#### **Safety Members**

			Employer Rates					
	Gross Normal Cost	Member Contributions	Basic Normal Cost	COLA Normal Cost	Total Normal Cost	UAAL Contribution Rate (1)(2)	Total Contribution Rate	Prior Year Total Contribution Rate
Plan 1 <sup>(3)</sup>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Plan 2	48.24%	(21.12)%	18.48%	8.64%	27.12%	29.49%	56.61%	50.66%
Plan 4	42.13%	(20.55)%	16.71%	4.87%	21.58%	29.49%	51.07%	49.18%
Plan 5	41.11%	(19.47)%	16.95%	4.69%	21.64%	29.49%	51.13%	49.49%
Plan 6 <sup>(3)</sup>	N/A	N/A	N/A	N/A	NA	NA	NA	NA
Plan 7	31.81%	(15.91)%	12.34%	3.56%	15.90%	29.49%	45.39%	44.59%
All Plans	37.57%	(18.34)%	14.87%	4.36%	19.23%	29.49%	48.72%	47.35%

<sup>1.</sup> UAAL Contribution Rate (before SCA offset) is the greater of 36.97% and the calculated UAAL Contribution Rate shown in Exhibit 12b.

<sup>2.</sup> UAAL Contribution Rate includes an offset of 7.48% of payroll to reflect the County Supplementary Contributions Account.

<sup>3.</sup> There are currently no active Safety Plan 1 or Plan 6 members. Employer rates will be developed in the future if needed.

# Exhibit 10d Employer Statutory Contribution Rates – Probation Members For the 2024-2025 Fiscal Year

#### **Probation Members**

					Er	nployer Rates		
	Gross Normal Cost	Member Contributions	Basic Normal Cost	COLA Normal Cost	Total Normal Cost	UAAL Contribution Rate (1)(2)	Total Contribution Rate	Prior Year Total Contribution Rate
Plan 1 (3)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Plan 2	44.98%	(12.25)%	21.97%	10.76%	32.73%	33.33%	66.06%	59.69%
Plan 4	40.72%	(19.14)%	16.82%	4.76%	21.58%	33.33%	54.91%	54.91%
Plan 5	36.03%	(18.41)%	13.37%	4.25%	17.62%	33.33%	50.95%	52.07%
Plan 6 <sup>(3)</sup>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Plan 7	32.45%	(16.23)%	12.56%	3.66%	16.22%	33.33%	49.55%	50.26%
All Plans	38.48%	(18.28)%	15.65%	4.55%	20.20%	33.33%	53.53%	53.75%

<sup>1.</sup> UAAL Contribution Rate (before SCA offset) is the greater of 44.77% and the calculated UAAL Contribution Rate shown in Exhibit 12c.

<sup>2.</sup> UAAL Contribution Rate includes an offset of 11.44% of payroll to reflect the County Supplementary Contributions Account.

<sup>3.</sup> There are currently no active Probation Plan 1 or Plan 6 members. Employer rates will be developed in the future if needed.

## SAN MATEO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION Board of Retirement

September 26, 2023 Agenda Item 6.1

**TO:** Board of Retirement

FROM: Michael Coultrip, Chief Investment Officer Michael R. Coultrip

**SUBJECT:** Preliminary Monthly Portfolio Performance Report for the Period Ended

August 31, 2023

#### Recommendation

Accept the preliminary performance report dated August 31, 2023.

## **Background**

This preliminary report is intended to provide a high-level view of the portfolio and its trends. It is not intended to provide short-term performance upon which the Board would act. The quarterly performance metrics are not yet available for our private equity, private credit, private real asset, and real estate portfolios. The performance for these portfolios will be reflected in the quarterly performance report generated by Verus.

The fund's net preliminary return for August was -1.1%, bringing the preliminary trailing twelvemonth net return ending August 2023 to 5.0%, which is below both our benchmark return of 5.6% and our assumed earnings rate of 6.25%.

SamCERA's estimated market value as of August was \$6.07 billion, while the actuarial funded ratio as of June 30, 2023 was 88.3%.

#### Discussion

Most assets generally were lower in August as investor sentiment suffered due to expectations of higher interest rates and a credit rating downgrade for the U.S.

The U.S. equity market (as measured by the S&P 500 Index) was down 1.6%, while small-capitalization stocks were down 5.0%. Developed international equity (as measured by MSCI EAFE) was down 3.8% while emerging markets were down 6.2%.

Economic activity softened in August. The revised estimate of 2<sup>nd</sup> quarter U.S. Real GDP is 2.1%, which is lower than the 2.4% advance estimate. Manufacturing weakened (although the pace of decline decreased) and continues to be in contraction territory. The labor market moderated and added 187,000 jobs in August, which was lower than previous months. The headline unemployment rate increased to 3.8% from the prior month. Inflation (as measured by the Consumer Price Index - All Urban Consumers) increased 3.7% for the 12-months ending August.

The general U.S. fixed income market was down 0.6% in August as interest rates rose. The 10-year U.S. Treasury yield was higher by 15 basis points during the month and ended at 4.11% by monthend. High Yield returns were up 0.3% and the Bloomberg Commodity Index was down 0.8%.

## **Attachments**

Verus Capital Market Update Northern Trust Monthly Preliminary Performance Report



# Market commentary

#### **U.S. ECONOMICS**

- Nonfarm payrolls increased 187,000 slightly above the expected 170,000. Although the labor market remains resilient, job openings fell below 9 million and the unemployment rate rose +0.3% to 3.8%. The shutdown of Yellow Corp., a trucking company with 30,000 employees, and the ongoing strike in the motion picture and recording industry contributed to the increase.
- The ISM Manufacturing PMI Index registered 47.6, 1.2 points higher than July but still in contractionary territory for the 9th consecutive month. Except for the New Orders Index, all other sub-indexes rose. This indicates that manufacturing activity, while still in contractionary territory, is contracting at a slower pace.
- The Consumer Confidence Index fell from 114.0 to 106.1. Consumers' short-term expectations for business, labor and market conditions worsened over the month, due in part to inflationary pressures notably food and gas prices.

## **U.S. EQUITIES**

- August proved to be a difficult month for equities. A U.S. government credit rating downgrade, expected treasury issuance and wide-ranging investor uncertainty likely created headwinds. From the 1st through the 18th the S&P fell -4.8%, but a rally in the final weeks helped limit S&P 500 losses to -1.6% for the month.
- Per FactSet, nearly all S&P 500 companies have reported second quarter earnings. Similar to Q1, many businesses reported earnings above estimates while also providing improved Q3 guidance. Relative to the initial estimate on June 30<sup>th</sup> of -7.0%, blended earnings for Q2 came in at an improved -4.1%. Looking ahead to Q3, investors expect the S&P to post a positive year over year increase in earnings for the first time in four quarters.

#### **U.S. FIXED INCOME**

- During the Jackson Hole Economic Symposium, Fed Chair Jerome Powell reaffirmed the Fed's data dependent commitment to increasing interest rates, but also acknowledged that inflationary data had been encouraging. His speech addressed a variety of concerns around the inflation environment and was interpreted as more balanced than other previous speeches.
- In a continuation of recent trends, the long end of the yield curve moved higher while the short end remained mostly flat. The 2-year Treasury yield moved -3 bps lower while 10 Year Treasury yield moved +12 bps higher. The 10/2 yield curve inversion now sits at -76 bps.
- Rising yields contributed to fixed income markets generally finishing the month negative. While the Bloomberg U.S. Agg ended August at -0.6%, higher cash rates helped U.S. T- Bills to deliver +0.5%.

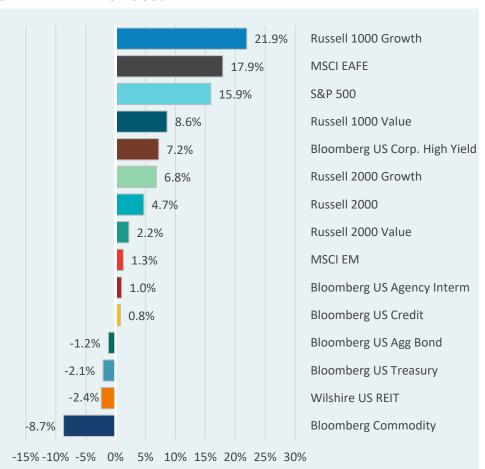
#### INTERNATIONAL MARKETS

- Chinese equities gave up July gains and struggled amid poor economic data releases. Retail sales surprised to the downside by a wide margin, reporting a gain of 2.5% compared to an expected 4.5%. The outlook for the Chinese economy remains volatile as exports fell -8.8% and imports fell -7.3% year over year. Exports to the U.S. have reportedly already fallen -13% through the first 7 months of 2023.
- Japan continued to show signs of improving economic conditions. A surprise beat in GDP, driven in part by a rebound in exports, has led to more optimism around an economic recovery. However, some investors are hesitant to become too enthusiastic, given that these sorts of import and export activity fluctuations are often short-lived.



# Major asset class returns

#### ONE YEAR ENDING AUGUST



#### TEN YEARS ENDING AUGUST



\*Only publicly traded asset performance is shown here. Performance of private assets is typically released with a 3- to 6-month delay.

Source: Morningstar, as of 8/31/23

Source: Morningstar, as of 8/31/23



# U.S. large cap equities

- The S&P 500 Index (-1.6%) fell for the first time since February, bringing its year-to-date return to 17.4%. The resilience of the U.S. consumer, as well as a slight uptick in inflation, has led to an expectation of higher rates for longer.
- 10 out of 11 S&P 500 sectors declined in August.
   Energy (1.8%) was the only sector that advanced as fuel prices rose. Defensive companies underperformed in August, as Utilities (-6.2%), Consumer Staples (-3.6%), and Materials (-3.3%) were the worst performing sectors.
- The S&P Top 50 Index (-0.7%) continued its outperformance, as mega-cap stocks such as Nvidia and Amazon delivered strong Q2 earnings. This was primarily driven by continued spending in artificial intelligence, cloud services, and a broadly strong consumer.
- U.S. equity volatility was unchanged at 13.6, despite the VIX peaking at 17.9 on August 17<sup>th</sup>. This was likely in reaction to comments from the Federal Reserve.
   However, the VIX declined as investor optimism improved over the month.

#### **S&P 500 PRICE INDEX**

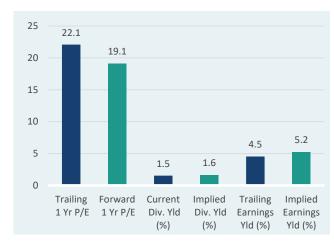


## IMPLIED VOLATILITY (VIX INDEX)



Source: Choe, as of 8/31/23

#### **S&P 500 VALUATION SNAPSHOT**



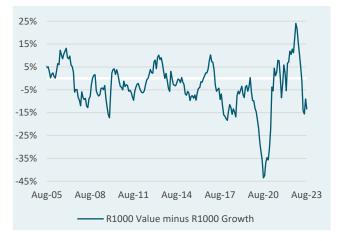
Source: Bloomberg, as of 8/31/23



# Domestic equity size and style

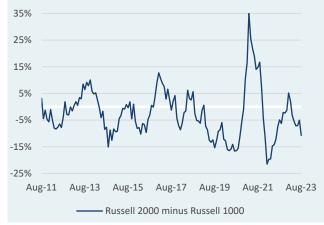
- Performance in size and style was negative across the board, but the general trend for the year held steady.
   Large-caps outperformed small-caps while growth outperformed value.
- Small cap-growth (-5.2%) and small-cap value (-4.8%) saw similar returns (Russell 2000 Growth vs. Russell 2000 Value), though value did outperform by a slight 40 bps margin. A higher sensitivity to the economic outlook, which includes a greater likelihood of a higher for longer rate scenario, and intramonth volatility may have created a more challenging environment for small-cap growth.
- Large-caps outperformed small-caps by 3.3% (Russell 1000 vs. Russell 2000) and large-cap growth outperformed large-cap value by 1.8% (Russell 1000 Growth vs. Russell 1000 Value). Losses in large-cap growth were limited by stronger than expected earnings reports and improving Q3 and Q4 earnings estimates.
- Over the 1-year period, mega-cap growth stocks have been a driving the market higher. Strong performance in Amazon, Meta and tech mega caps has been fueled in part by better-than-expected earnings reports and an Al driven optimism in potential future earnings and efficiencies.

## VALUE VS. GROWTH 1-YR ROLLING RELATIVE PERFORMANCE



Source: FTSE, Bloomberg, as of 8/31/23

## SMALL VS. LARGE 1-YR ROLLING RELATIVE PERFORMANCE



Source: FTSE, Bloomberg, as of 8/31/23

#### 1-YEAR SIZE & STYLE PERFORMANCE

	Value	Core	Growth
Large Cap	8.6%	15.4%	21.9%
Mid Cap	5.7%	8.4%	13.0%
Small Cap	2.2%	4.7%	6.8%



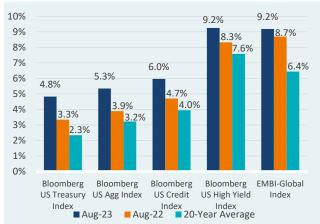
## Fixed income

- Fitch downgraded the U.S. government's credit rating to AA+, due to fiscal deterioration and repeated political standoffs over the debt ceiling. The downgrade, coupled with expectations of a higher for longer rate scenario setting in, boosted 10-and-30 year yields in the preceding 24 hours.
- U.S. rate movements over the month were concentrated in the long end of the curve. This was likely driven by the Treasury Department borrowing more than market expectations. Ten and thirty-year yields rose +12 bps and +18 bps to 4.09% and 4.20%, respectively.
- Bank Loans (+1.3%) and Corporate High Yield (+0.3%) continued their strong year-to-date performance to end at 7.7% and 7.1%, respectively. Bank Loans saw a -10 bps decrease in spreads to 520 bps, and a -0.2% decrease in default rate to 1.55%.
- Long duration bonds (-2.8%) continued to perform poorly this month following the increase in yields on the long end of the curve. The Bloomberg 1-3 Year Treasury index outperformed, with a gain of +0.4% on the month as short-term yields remained unchanged.

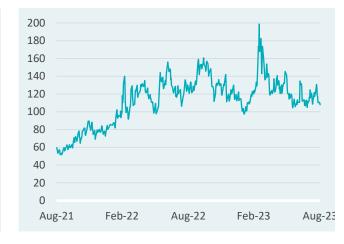
#### U.S. TREASURY YIELD CURVE



#### **NOMINAL YIELDS**



#### U.S. TREASURY IMPLIED VOL ("MOVE" INDEX)



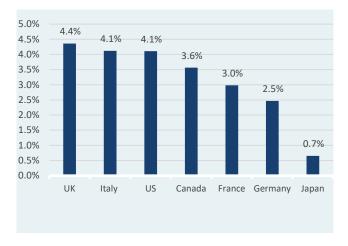
Source: Morningstar, as of 8/31/23

Source: Bloomberg, as of 8/31/23

## Global markets

- International equities declined in August (MSCI ACWI ex-US -4.5%), underperforming U.S. equities across all regions. Emerging markets (MSCI EM -6.2%) dramatically lagged international developed (MSCI EAFE -3.8%), following continued economic weakness from China, despite government intervention.
- The MSCI China Index (-9%) fell due to a weak job market, deflation, and low foreign investment. Confidence in real estate is declining as Country Garden Holdings, another real estate giant, has missed interest payments. The Chinese reaction has been to cut interest rates and stop publishing youth unemployment data.
- Despite weakness in the manufacturing and services sectors, high energy prices are propping up inflation in Europe, which was 5.3% in August. This may be causing uncertainty among investors that another rate hike by the ECB may be in store, as the MSCI Europe Index declined -4.8% for the month.
- Japanese real GDP increased 4.8% in Q2 (revised from 6%). The strong GDP growth can likely be attributed to a weakening currency that bolstered exports, and lower commodity prices that decreased imports. Increased tourism reportedly helped to offset falling domestic demand. The MSCI Japan Index declined -2.4% in August.

#### **GLOBAL SOVEREIGN 10-YEAR YIELDS**



120

100

100

80

-2%

-4%

-2%

-4%

60

Aug-78 Aug-87 Aug-96 Aug-05 Aug-14 Aug-23

US Major Currency Index (real)

Average Currency Index Value

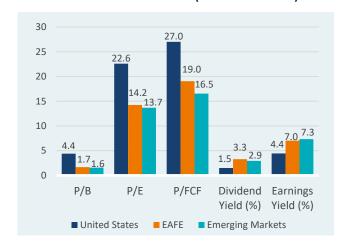
U.S. DOLLAR MAJOR CURRENCY INDEX

140

Source: Federal Reserve, as of 8/31/23

Subsequent 10 Year Return

## MSCI VALUATION METRICS (3-MONTH AVG)



Source: Bloomberg, as of 8/31/23



## Commodities

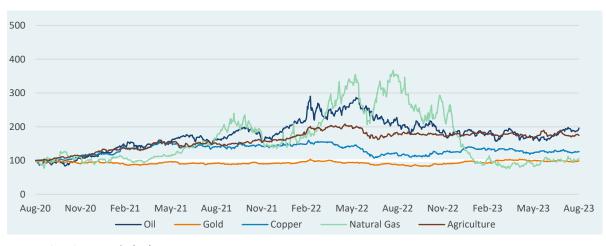
- Commodities faced several headwinds throughout the month, which led the Bloomberg Commodity Index to post a -0.8% loss. Grains and industrial metals were among the worst performers, but a combination of demand and supply side dynamics contributed to energy and petroleum ending in positive territory for the month.
- Natural gas led the energy sector, gaining +5.1% on the month. Although production was slightly higher than July, hotter temperatures in the Southwest, especially in Texas, led to unusually high electricity demand. An uptick in natural gas exports to Mexico also added pressure to already rising prices.
- WTI Crude and Brent Crude rose +2.2% and +1.5%, respectively, amid record global demand coupled with supply constriction. Output cuts from Saudi Arabia and Russia set the stage for continued declines in inventories which contributed to upward price pressure. WTI Crude has gained more than 20% since June 30<sup>th</sup>.
- The Bloomberg Grains Sub-Index fell -4.9% after improved U.S. weather forecasts and increased rainfall in the Midwest lifted crop yield expectations. The tentative return of grain shipments from Ukraine and Russia added to the decline in wheat prices. Wheat (-13.9%) led declines in August, bringing year to date performance to -27.7%.

#### INDEX AND SECTOR PERFORMANCE

	Month	QTD	YTD	1 Year	3 Year	5 Year	10 Year
Bloomberg Commodity	(0.8)	9.7	(2.8)	(8.7)	15.2	6.7	(0.9)
Bloomberg Agriculture	(1.5)	6.2	0.1	0.8	22.5	11.2	0.0
Bloomberg Energy	2.4	24.2	(8.3)	(30.5)	20.6	(1.0)	(7.9)
Bloomberg Grains	(4.9)	2.8	(9.1)	(7.4)	19.0	8.4	(2.2)
Bloomberg Industrial Metals	(4.7)	3.1	(10.7)	(2.5)	8.1	5.7	2.0
Bloomberg Livestock	(0.4)	12.5	7.5	13.8	11.4	(0.4)	(2.1)
Bloomberg Petroleum	2.8	27.1	9.6	6.8	42.7	7.5	(3.4)
Bloomberg Precious Metals	(1.7)	(0.2)	5.3	18.3	(2.2)	9.2	1.7
Bloomberg Softs	0.6	(1.0)	18.5	7.1	21.4	11.8	0.4

Source: Morningstar, as of 8/31/23

#### COMMODITY PERFORMANCE





# Appendix



## Periodic table of returns

Large Cap Growth

**Small Cap Equity** 

Small Cap Value

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	YTD	<u>!</u>	5-Year	10-Yea
Large Cap Growth	56.3	26.0	34.5	32.6	39.8	5.2	79.0	29.1	14.3	18.6	43.3	13.5	13.3	31.7	37.3	6.7	36.4	38.5	28.3	16.1	32.2		13.8	15.6
Large Cap Equity	48.5	22.2	21.4	26.9	16.2	1.4	37.2	26.9	7.8	18.1	38.8	13.2	5.7	21.3	30.2	1.9	31.4	34.6	27.6	9.4	18.6		10.8	12.6
Small Cap Growth	47.3	20.7	20.1	23.5	15.8	-6.5	34.5	24.5	2.6	17.9	34.5	13.0	0.9	17.3	25.0	0.0	28.5	21.0	27.1	1.5	12.7		7.1	9.1
International Equity	46.0	18.3	14.0	22.2	11.8	-21.4	32.5	19.2	1.5	17.5	33.5	11.8	0.6	12.1	22.2	-1.5	26.5	20.0	26.5	-4.7	10.9		6.7	8.2
60/40 Global Portfolio	39.2	16.5	7.5	18.4	11.6	-25.9	28.4	16.8	0.4	16.4	33.1	6.0	0.0	11.8	21.7	-3.5	25.5	18.3	25.2	-7.5	9.0		5.9	8.0
Small Cap Equity	30.0	14.5	7.1	16.6	10.9	-28.9	27.2	16.7	0.1	16.3	32.5	5.6	-0.4	11.3	17.1	-4.8	22.4	14.0	17.7	-13.0	9.0		3.1	7.8
Large Cap Value	29.9	14.3	6.3	15.5	10.3	-33.8	23.3	16.1	-2.1	15.3	23.3	4.9	-0.8	11.2	14.6	-6.0	22.0	10.3	14.8	-14.5	5.9		2.5	7.4
Small Cap Value	29.7	12.9	5.3	15.1	7.0	-35.6	20.6	15.5	-2.9	14.6	12.1	4.2	-1.4	8.0	13.7	-8.3	18.6	7.8	11.3	-14.5	4.9		4.8	5.4
Emerging Markets Equity	25.2	11.4	4.7	13.3	7.0	-36.8	19.7	13.1	-4.2	11.5	11.0	3.4	-2.5	7.1	7.8	-9.3	18.4	7.5	8.9	-17.3	4.6		3.2	4.9
Hedge Funds of Funds	23.9	9.1	4.6	10.4	5.8	-37.6	18.9	10.2	-5.5	10.5	9.0	2.8	-3.8	5.7	7.7	-11.0	8.7	4.6	6.5	-19.1	3.4		4.1	3.0
Cash	11.6	6.9	4.6	9.1	4.4	-38.4	11.5	8.2	-5.7	4.8	0.1	0.0	-4.4	2.6	7.0	-11.2	7.8	2.8	2.8	-20.1	3.1		3.5	3.5
US Bonds	9.0	6.3	4.2	4.8	-0.2	-38.5	5.9	6.5	-11.7	4.2	-2.0	-1.8	-7.5	1.0	3.5	-12.9	7.7	0.5	0.0	-20.4	1.4		1.0	1.5
Commodities	4.1	4.3	3.2	4.3	-1.6	-43.1	0.2	5.7	-13.3	0.1	-2.3	-4.5	-14.9	0.5	1.7	-13.8	6.4	0.5	-1.5	-26.4	-2.8		1.5	1.0
Real Estate	1.0	1.4	2.4	2.1	-9.8	-53.2	-16.9	0.1	-18.2	-1.1	-9.5	-17.0	-24.7	0.3	0.9	-14.6	2.1	-3.1	-2.5	-29.1	-3.8		0.5	-0.9
	La	rge Cap	Equit	у				Small	Cap G	rowth				Co	mmod	ities								
	La	rge Cap	Value	2				Interr	nationa	al Equit	ty			Re	al Esta	ite								

Source Data: Morningstar, Inc., Hedge Fund Research, Inc. (HFR), National Council of Real Estate Investment Fiduciaries (NCREIF). Indices used: Russell 1000, Russell 1000 Value, Russell 1000 Value, Russell 2000 Growth, MSCI EAFE, MSCI EM, Bloomberg US Aggregate, T-Bill 90 Day, Bloomberg Commodity, NCREIF Property, HFRI FOF, MSCI ACWI, Bloomberg Global Bond. NCREIF Property Index performance data as of 6/30/23.

**Emerging Markets Equity** 

**US Bonds** 

Cash

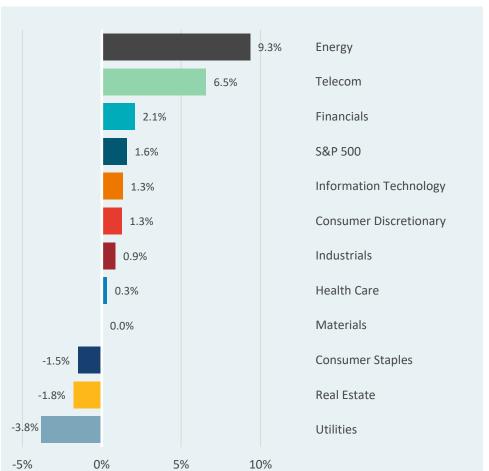


Hedge Funds of Funds

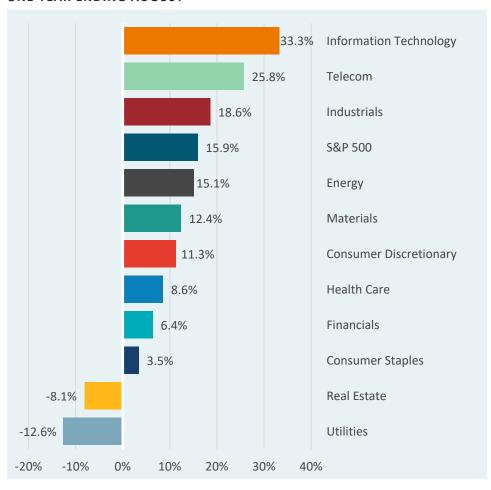
60% MSCI ACWI/40% Bloomberg Global Bond

## S&P 500 sector returns

## QTD



#### ONE YEAR ENDING AUGUST



Source: Morningstar, as of 8/31/23

Source: Morningstar, as of 8/31/23



# Detailed index returns

DOMESTIC EQUITY								FIXED INCOME							
	Month	QTD	YTD	1 Year	3 Year	5 Year	10 Year		Month	QTD	YTD	1 Year	3 Year	5 Year	10 Year
Core Index								Broad Index							
S&P 500	(1.6)	1.6	18.7	15.9	10.5	11.1	12.8	Bloomberg US TIPS	(0.9)	(8.0)	1.1	(3.7)	(1.5)	2.3	2.1
S&P 500 Equal Weighted	(3.2)	0.2	7.2	8.7	12.4	9.1	11.2	Bloomberg US Treasury Bills	0.5	0.9	3.2	4.3	1.5	1.7	1.1
DJ Industrial Average	(2.0)	1.4	6.4	12.6	9.1	8.3	11.4	Bloomberg US Agg Bond	(0.6)	(0.7)	1.4	(1.2)	(4.4)	0.5	1.5
Russell Top 200	(1.2)	2.0	21.9	17.8	10.2	12.0	13.5	Bloomberg US Universal	(0.6)	(0.5)	1.8	(0.4)	(4.0)	0.7	1.8
Russell 1000	(1.7)	1.6	18.6	15.4	9.9	10.8	12.6	Duration							
Russell 2000	(5.0)	0.8	9.0	4.7	8.1	3.1	8.0	Bloomberg US Treasury 1-3 Yr	0.4	0.7	1.7	1.3	(0.9)	1.0	0.8
Russell 3000	(1.9)	1.6	18.0	14.8	9.8	10.3	12.2	Bloomberg US Treasury Long	(2.8)	(4.9)	(1.4)	(9.7)	(13.5)	(1.9)	1.6
Russell Mid Cap	(3.5)	0.4	9.4	8.4	9.2	7.3	10.0	Bloomberg US Treasury	(0.5)	(0.9)	0.7	(2.1)	(5.1)	0.2	0.9
Style Index								Issuer							
Russell 1000 Growth	(0.9)	2.4	32.2	21.9	8.3	13.8	15.6	Bloomberg US MBS	(8.0)	(0.9)	1.0	(2.1)	(4.1)	(0.3)	1.1
Russell 1000 Value	(2.7)	0.7	5.9	8.6	11.6	7.1	9.1	Bloomberg US Corp. High Yield	0.3	1.7	7.1	7.2	1.8	3.3	4.5
Russell 2000 Growth	(5.2)	(0.8)	12.7	6.8	2.7	2.5	8.2	Bloomberg US Agency Interm	0.3	0.5	2.0	1.0	(1.9)	0.8	1.0
Russell 2000 Value	(4.8)	2.4	4.9	2.2	13.5	3.2	7.4	Bloomberg US Credit	(0.7)	(0.4)	2.7	0.8	(4.1)	1.3	2.5
INTERNATIONAL EQUITY								OTHER							
Broad Index								Index							
MSCI ACWI	(2.8)	0.8	14.8	14.0	7.2	7.5	8.6	Bloomberg Commodity	(8.0)	5.4	(2.8)	(8.7)	15.2	6.7	(0.9)
MSCI ACWI ex US	(4.5)	(0.6)	8.8	11.9	4.0	3.3	4.4	Wilshire US REIT	(2.8)	0.1	6.8	(2.4)	6.9	3.7	7.1
MSCI EAFE	(3.8)	(0.7)	10.9	17.9	6.1	4.1	4.9	CS Leveraged Loans	1.3	3.6	7.7	9.5	6.0	4.1	4.2
MSCI EM	(6.2)	(0.3)	4.6	1.3	(1.4)	1.0	3.0	S&P Global Infrastructure	(4.7)	(2.7)	1.0	(1.1)	8.0	4.9	6.3
MSCI EAFE Small Cap	(3.3)	1.0	6.5	9.2	2.4	1.5	5.7	Alerian MLP	0.7	6.9	17.4	20.0	35.7	5.5	1.7
Style Index								Regional Index							
MSCI EAFE Growth	(4.7)	(2.8)	11.0	15.2	2.2	4.5	5.8	JPM EMBI Global Div	(1.5)	0.4	4.5	5.8	(4.3)	0.5	3.0
MSCI EAFE Value	(3.0)	1.4	10.9	20.7	9.7	3.4	3.8	JPM GBI-EM Global Div	(2.7)	0.1	7.9	11.3	(2.2)	1.2	(0.1)
Regional Index								Hedge Funds							
MSCI UK	(4.0)	(0.7)	7.7	14.8	10.5	3.4	3.2	HFRI Composite	(0.5)	1.3	4.7	4.5	6.7	5.1	4.8
MSCI Japan	(2.4)	0.5	13.6	15.3	3.9	3.1	5.4	HFRI FOF Composite	0.1	1.2	3.4	3.5	3.9	3.5	3.5
MSCI Euro	(4.8)	(2.2)	17.3	32.1	7.9	4.8	5.3	Currency (Spot)							
MSCI EM Asia	(6.2)	(0.3)	3.7	(0.3)	(3.0)	1.2	4.6	Euro	(1.6)	(0.5)	1.7	7.9	(3.2)	(1.4)	(1.9)
MSCI EM Latin American	(7.3)	(2.5)	15.6	18.2	13.9	4.2	1.3	Pound Sterling	(1.5)	(0.3)	5.3	8.9	(1.8)	(0.5)	(2.0)
								Yen	(2.4)	(0.7)	(9.4)	(4.8)	(10.0)	(5.3)	(3.9)

Source: Morningstar, HFRI, as of 8/31/23.



# Detailed private market returns

## Comparison to public market index returns

Private Equity Pooled IRRs	1 Year	3 Year	5 Year	10 Year
Global Private Equity FoFs & Secondary Funds	(6.4)	22.9	16.0	13.9
MSCI World Index (PME)	(6.7)	17.5	8.3	9.2
Global Private Equity Direct Funds <sup>1</sup>	(5.6)	23.6	17.1	15.9
MSCI World Index (PME)	(6.1)	15.6	8.0	9.0
U.S. Private Equity Direct Funds <sup>1</sup>	(6.1)	25.9	19.2	17.3
Russell 3000 Index (PME)	(7.7)	17.9	10.4	12.0
Europe Private Equity Direct Funds <sup>1</sup>	(2.4)	22.7	15.7	14.7
MSCI Europe Index (PME)	2.7	13.8	5.0	5.9
Asia Private Equity Direct Funds <sup>1,4</sup>	(4.2)	14.1	10.1	12.7
MSCI AC Asia Pacific Index (PME)	(7.3)	7.4	1.2	4.0

Private Credit Pooled IRRs	1 Year	3 Year	5 Year	10 Year
U.S. All Private Debt <sup>2,4</sup>	4.9	20.0	12.6	11.5
Moringstar LSTA U.S. Leveraged Loan 100 Index (PME)	2.6	6.2	3.5	3.5
Private Real Estate Pooled IRRs	1 Year	3 Year	5 Year	10 Year
U.S. All Private Real Estate	(0.7)	14.6	10.3	12.4
FTSE NAREIT Equity REIT Index (PME)	(18.4)	13.6	6.9	6.8
Private Real Assets Pooled IRRs	1 Year	3 Year	5 Year	10 Year
Global Nature Resources <sup>3,4</sup>	8.5	21.6	4.9	3.5
S&P Global Natural Resources Index (PME)	(7.0)	28.9	7.1	5.7
Global Infrastructure <sup>4</sup>	6.7	13.4	10.3	11.1
S&P Global Infrastructure Index (PME)	(2.8)	14.6	6.0	6.3

Source: Pooled IRRs are from Thompson Reuters C/A and Time-weighted Returns are from Investment Metrics, as of March 31st, 2023. All returns in U.S. dollars.

<sup>\*\*\*</sup> Includes Private Equity Energy, Timber and Upstream Energy & Royalties.



<sup>\*</sup> Includes Buyout, Growth Equity and Venture Capital.

<sup>\*\*</sup> Includes Control-Oriented Distressed, Credit Opportunities, Senior Debt and Subordinated Capital.

# Notices & disclosures

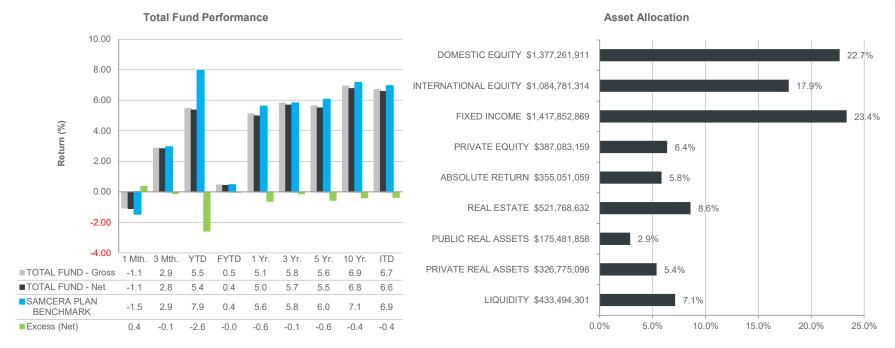
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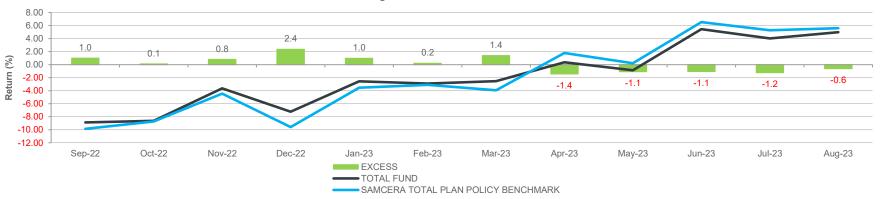








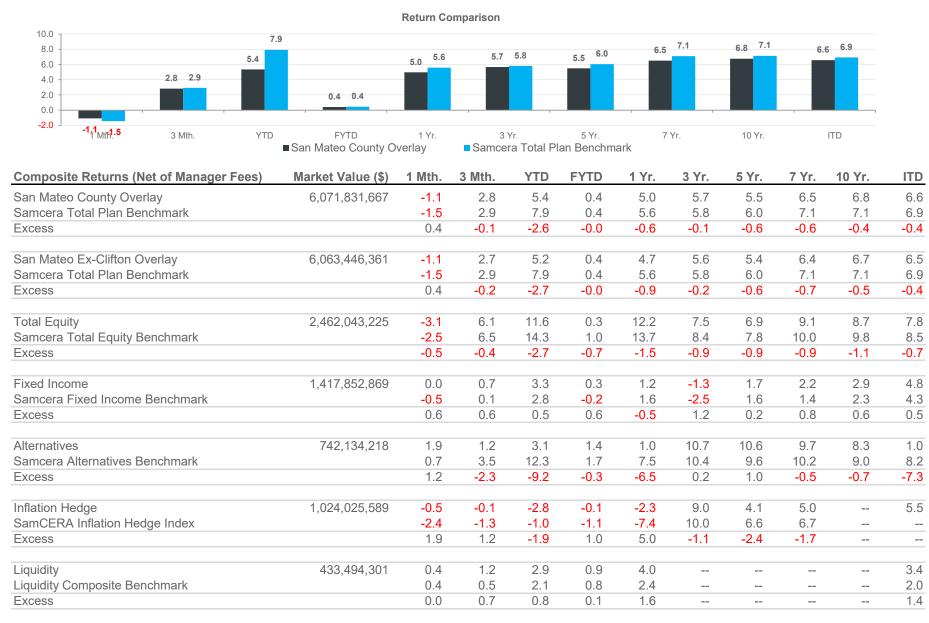
#### **Rolling Month End Annual Returns**





# San Mateo County Composite Return Summary August 31,2023







NTAC:3NS-20 2 of 14

# Composite Return Summary August 31,2023

<b>SamCERA</b>	

Composite Returns (NET)	Market Value (\$)	1 Mth.	3 Mth.	YTD	FYTD	1 Yr.	3 Yr.	5 Yr.	7 Yr.	10 Yr.	ITD
Total Equity	2,462,043,225	-3.1	6.1	11.6	0.3	12.2	7.5	6.9	9.1	8.7	7.8
Samcera Total Equity Benchmark		-2.5	6.5	14.3	1.0	13.7	8.4	7.8	10.0	9.8	8.5
Excess		-0.5	-0.4	-2.7	-0.7	-1.5	-0.9	-0.9	-0.9	-1.1	-0.7
Domestic Equity	1,377,261,911	-1.9	8.5	12.8	1.3	12.2	10.1	9.0	11.8	11.3	9.0
Samcera Dom. Equity Benchmark		-1.9	8.5	18.0	1.6	14.8	9.8	10.3	12.4	12.1	9.5
Excess		0.0	-0.0	-5.2	-0.2	-2.5	0.3	-1.2	-0.7	-0.8	-0.5
Large Cap Equity	1,255,002,302	-1.8	8.1	12.6	1.2	12.2	9.5	9.4	12.0	11.9	9.7
Russell 1000		-1.7	8.5	18.6	1.6	15.4	9.9	10.8	12.8	12.6	10.2
Excess		-0.1	-0.4	-5.9	-0.4	-3.2	-0.5	-1.4	-0.7	-0.6	-0.5
Blackrock Russell 1000	806,237,296	-1.7	8.5	18.6	1.6	15.4	10.1	10.9			12.8
Russell 1000		-1.7	8.5	18.6	1.6	15.4	9.9	10.8			12.6
Excess		0.0	0.0	0.0	0.0	0.0	0.2	0.1			0.1
DE Shaw Commingled Fund	220,402,535	-0.9	9.3	14.3	1.8	12.1	9.0	8.8	11.9		11.0
Russell 1000		-1.7	8.5	18.6	1.6	15.4	9.9	10.8	12.8		11.3
Excess		0.8	0.8	-4.3	0.2	-3.3	-0.9	-1.9	-0.9		-0.3
Acadian US MGD V-SL	0										
Russell 1000											
Excess											
Panagora Defuseq -SL	228,362,471	-2.9	4.6	0.5	-0.9	3.0	8.3				11.1
Russell 1000	· · · · ·	-1.7	8.5	18.6	1.6	15.4	9.9				15.3
Excess		-1.2	-3.9	-18.1	-2.6	-12.4	-1.7				-4.1
Small Cap Equity	119,811,449	-2.7	12.9	13.7	3.2	11.3	15.2	4.0	8.3	6.9	6.5
Russell 2000	, ,	-5.0	9.0	9.0	0.8	4.7	8.1	3.1	7.7	8.0	7.5
Excess		2.3	3.9	4.7	2.4	6.6	7.1	0.8	0.6	-1.1	-1.0



# Composite Return Summary August 31,2023



Composite Returns (NET)	Market Value (\$)	1 Mth.	3 Mth.	YTD	FYTD	1 Yr.	3 Yr.	5 Yr.	7 Yr.	10 Yr.	ITD
QMA US Small Cap	119,811,449	-2.7	12.9	13.7	3.2	11.3	15.2	4.0	8.3		8.2
Russell 2000		-5.0	9.0	9.0	0.8	4.7	8.1	3.1	7.7		7.7
Excess		2.3	3.9	4.7	2.4	6.6	7.1	8.0	0.6		0.5
Domestic Equity Overlay	2,448,160	-4.5	4.7	15.4	-2.6	20.3	108.2				103.9
ICE BofAML US 3-Month Treasury Bill		0.5	1.3	3.1	0.9	4.3	1.5				1.4
Excess		-5.0	3.4	12.2	-3.4	16.0	106.7				102.5
International Equity	1,084,781,314	-4.4	3.5	10.2	-1.1	12.3	4.7	4.5	5.9	5.3	5.4
SamCERA Custom Hedge Intl		-3.2	4.3	10.2	0.3	12.2	6.6	4.8	6.5	5.3	5.1
Excess		-1.2	-0.8	0.1	-1.4	0.1	-1.9	-0.3	-0.5	0.0	0.3
Developed Markets Equity	1,084,781,314	-4.3	3.5	10.4	-0.9	13.0	2.8	4.1	5.7	5.3	4.4
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Excess		-4.3	3.5	10.4	-0.9	13.0	2.8	4.1	5.7	5.3	4.4
Dev Mrkts Equity Curr Hedge	7,271,974										
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Excess											
Dev Mrkts Equity Ex Curr Hedge	1,077,509,340	-4.8	3.2	9.3	-1.0	11.9	2.5	3.8	5.6	5.1	4.4
MS AC WidxUS IMI Nt		-4.3	4.1	8.8	-0.3	11.6	4.1	3.3	5.4	4.5	4.6
Excess		-0.5	-0.9	0.5	-0.8	0.2	-1.6	0.5	0.2	0.6	-0.2
Baillie Gifford	261,325,569	-7.0	0.4	6.3	-3.2	6.2	-3.9	2.6	5.1	5.2	5.9
MSCI ACWI ex USA Growth		-5.1	1.6	8.6	-2.1	9.7	-0.1	3.8	6.1	5.5	
Excess		-1.9	-1.2	-2.3	-1.1	-3.5	-3.8	-1.2	-1.0	-0.3	
Blackrock MSCI ACWI ex US IMI	546,338,535	-4.3	4.1	9.0	-0.3	12.0	4.4				5.8
MS AC WidxUS IMI Nt		-4.3	4.1	8.8	-0.3	11.6	4.1				5.7
Excess		-0.0	0.0	0.2	-0.0	0.4	0.3				0.1
Mondrian Investment Partners	269,845,236	-3.7	3.8	11.2	-0.4	15.9	6.2	2.7	4.2	3.9	4.7
MSCI ACWI xUSA Value	,,	-3.9	6.4	9.9	1.0	15.5	9.1	3.5	5.5	4.0	4.9
Excess		0.2	-2.5	1.3	-1.4	0.4	-2.9	-0.9	-1.3	-0.1	-0.2
International Equity Overlay	0	-9.1	1.0	1.7	-6.4	4.6	-1.6				6.6
ICE BofAML US 3-Month Treasury Bill		0.5	1.3	3.1	0.9	4.3	1.5				1.4
Excess		-9.5	-0.3	-1.4	-7.3	0.4	-3.2				5.2



# Composite Return Summary August 31,2023

SamCER	A

Composite Returns (NET)	Market Value (\$)	1 Mth.	3 Mth.	YTD	FYTD	1 Yr.	3 Yr.	5 Yr.	7 Yr.	10 Yr.	ITD
Fixed Income	1,417,852,869	0.0	0.7	3.3	0.3	1.2	-1.3	1.7	2.2	2.9	4.8
Samcera Fixed Income Benchmark		-0.5	0.1	2.8	-0.2	1.6	-2.5	1.6	1.4	2.3	4.3
Excess		0.6	0.6	0.5	0.6	-0.5	1.2	0.2	0.8	0.6	0.5
Core Fixed Income	745,690,945	-0.6	-1.3	1.5	-0.9	-1.4	-4.2	0.4	0.6	1.9	4.2
BBG US Aggregate		-0.6	-1.1	1.4	-0.7	-1.2	-4.4	0.5	0.3	1.5	3.9
Excess		0.0	-0.2	0.1	-0.2	-0.2	0.3	-0.0	0.3	0.4	0.3
FIAM B Core Bond	200,743,044	-0.7	-1.2	1.4	-0.7	-1.0	-3.8	1.3	1.0		1.7
BBG US Aggregate		-0.6	-1.1	1.4	-0.7	-1.2	-4.4	0.5	0.3		0.8
Excess		-0.0	-0.1	0.1	0.1	0.2	0.6	8.0	0.7		0.9
DoubleLine	229,308,378	-0.5	-1.0	2.5	-0.8	-1.0	-4.3				-2.4
BBG US Aggregate		-0.6	-1.1	1.4	-0.7	-1.2	-4.4				-3.0
Excess		0.2	0.0	1.1	-0.1	0.2	0.1				0.6
NISA Long Treasury	87,916,900	-2.8			-4.8						-5.0
Bloomberg US Long Tsy		-2.8			-4.9						-5.0
Excess		0.0			0.1						-0.0
NISA Core Bond	222,452,248	-0.6	-1.0	1.5	-0.6	-0.8	-4.1				-3.0
BBG US Aggregate		-0.6	-1.1	1.4	-0.7	-1.2	-4.4				-3.5
Excess		0.0	0.0	0.1	0.1	0.4	0.3				0.4
Core Fixed Income Overlay	5,270,375	-1.2	-4.1		-2.6						
ICE BofAML US 3-Month Treasury Bill		0.5	1.3	3.1	0.9	4.3	1.5				1.4
Excess		-1.7	-5.4		-3.5						
Opportunistic Credit	672,161,923	0.8	3.0	5.4	1.7	4.5	3.7	3.8	5.0	5.3	7.2
BBG BA Intermediate HY Ind		-0.0	2.2	5.4	1.0	6.3	0.9	3.7	3.7	4.4	5.9
Excess		0.8	0.7	0.1	0.7	-1.7	2.8	0.1	1.2	8.0	1.4
Pimco Private Income	50,305,725	1.9	1.9	3.5	1.9	3.1	8.6				7.1
BBG BA Intermediate HY Ind		-0.0	2.2	5.4	1.0	6.3	0.9				3.1
Excess		1.9	-0.3	-1.9	0.9	-3.1	7.6				4.0



# Composite Return Summary August 31,2023



Composite Returns (NET)	Market Value (\$)	1 Mth.	3 Mth.	YTD	FYTD	1 Yr.	3 Yr.	5 Yr.	7 Yr.	10 Yr.	ITD
AG CREDIT SOL FU LP	11,132,852	3.2	3.3	5.3	3.3	3.7	13.1				14.4
BBG BA Intermediate HY Ind		-0.0	2.2	5.4	1.0	6.3	0.9				1.8
Excess		3.2	1.0	-0.1	2.2	-2.5	12.2				12.6
AG CSF ADF II	6,456,589	5.4	5.4	9.2	5.4						
BBG BA Intermediate HY Ind		-0.0	2.2	5.4	1.0	6.3					2.8
Excess		5.4	3.2	3.8	4.4						
AG CSF II	17,000,627	8.0	8.1	10.2	8.1	8.4					2.6
BBG BA Intermediate HY Ind		-0.0	2.2	5.4	1.0	6.3					-1.2
Excess		8.0	5.8	4.8	7.0	2.1					3.8
AG Opportunistic Whole Loan	34,746	0.0	-12.6	-14.6	0.0	10.8	32.0	16.2	18.9		13.8
BBG BA Intermediate HY Ind		-0.0	2.2	5.4	1.0	6.3	0.9	3.7	3.7		3.9
Excess		0.0	-14.9	-20.0	-1.0	4.5	31.1	12.5	15.2		9.9
Blackrock Direct Lending Feede	40,352,869	2.8	2.4	5.6	-0.1	6.9	8.3				3.8
BBG BA Intermediate HY Ind		-0.0	2.2	5.4	1.0	6.3	0.9				3.2
Excess		2.8	0.2	0.2	-1.2	0.7	7.3				0.7
Beach Point Select Fund	115,225,176	1.3	4.9	8.2	2.6	5.9	8.6	7.1	7.6		7.8
BBG BA Intermediate HY Ind		-0.0	2.2	5.4	1.0	6.3	0.9	3.7	3.7		4.0
Excess		1.3	2.6	2.9	1.5	-0.4	7.7	3.4	3.9		3.8
Brigade Cap Mngmt	113,327,858	0.6	3.7	8.8	2.5	3.6	6.1	3.6	4.7	4.5	5.7
BBG BA Intermediate HY Ind		-0.0	2.2	5.4	1.0	6.3	0.9	3.7	3.7	4.4	5.4
Excess		0.6	1.5	3.5	1.4	-2.6	5.2	-0.0	1.0	0.0	0.3



## **San Mateo County** Composite Return Summary August 31,2023





Composite Returns (NET)	Market Value (\$)	1 Mth.	3 Mth.	YTD	FYTD	1 Yr.	3 Yr.	5 Yr.	7 Yr.	10 Yr.	ITD
White Oak YSF V	28,785,933	1.4	1.4	-0.5	1.4	-0.0					1.0
BBG BA Intermediate HY Ind	20,703,933	-0.0	2.2	5.4	1.0	6.3					0.2
Excess		1.4	-0.9	-5.8	0.3	-6.3					0.2
											0.0
White Oak Yield Spec	29,564,225	1.7	1.7	1.9	1.7	3.0	5.1	5.2			
BBG BA Intermediate HY Ind		-0.0	2.2	5.4	1.0	6.3	0.9	3.7			3.6
Excess		1.7	-0.6	-3.5	0.6	-3.3	4.1	1.6			
PIMCO Div. Income Fund	131,573,182	-0.3	2.0	4.4	0.8	4.4	-2.2	1.5			1.4
BBG BA Intermediate HY Ind		-0.0	2.2	5.4	1.0	6.3	0.9	3.7			3.2
Excess		-0.3	-0.2	-1.0	-0.3	-1.8	-3.1	-2.1			-1.8
TCP Direct Lending VIII	13,133,341	0.3	2.9	4.2	2.0	5.8	6.9	6.2	5.8		
BBG BA Intermediate HY Ind	.,, .	-0.0	2.2	5.4	1.0	6.3	0.9	3.7	3.7		4.2
Excess		0.3	0.6	-1.2	1.0	-0.4	5.9	2.5	2.1		
Franklin Templeton	54,184,223	-2.9	1.3	1.2	-0.7	4.5	-4.2	-3.3	-1.6	-0.6	0.7
Bloomberg Multiverse Index	-, -, -	-1.4	-0.5	1.0	-0.6	0.3	-5.8	-1.1	-0.8	0.2	0.7
Excess		-1.6	1.7	0.3	-0.1	4.2	1.7	-2.3	-0.8	-0.8	0.1
One William Street	61.084.578	0.7			1.8						
BBG BA Intermediate HY Ind	0.,00.,0.0	-0.0	2.2		1.0						1.2
Excess		0.7			0.8						
Alternatives	742,134,218	1.9	1.2	3.1	1.4	1.0	10.7	10.6	9.7	8.3	1.0
Samcera Alternatives Benchmark	742,134,210	0.7	3.5	12.3	1.7	7.5	10.7	9.6	10.2	9.0	8.2
Excess		1.2	-2.3	-9.2	-0.3	-6.5	0.2	1.0	-0.5	-0.7	-7.3
LV0099		1.2	-2.3	-9.2	-0.3	-0.5	0.2	1.0	-0.5	-0.7	-1.3



## **San Mateo County** Composite Return Summary August 31,2023

<b>SamCER</b>	A

, tagaet e 1,2020											
Composite Returns (NET)	Market Value (\$)	1 Mth.	3 Mth.	YTD	FYTD	1 Yr.	3 Yr.	5 Yr.	7 Yr.	10 Yr.	ITD
D	007.000.450	4.5	4.0	4.0	4.0	0.5	44.0	00.0	40.7	47.7	
Private Equity	387,083,159	1.5	1.2	4.8	1.0	3.5	14.9	20.0	18.7	17.7	-5.5
Samcera PE Benchmark		0.6	4.8	18.5	1.9	5.3	15.4	13.1	14.2	14.4	15.2
Excess		0.9	-3.6	-13.7	-0.9	-1.8	-0.4	6.8	4.5	3.2	-20.7
Absolute Return	355,051,059	2.3	1.2	1.3	1.9	-2.0	4.1	-0.9	-0.8	1.7	1.6
Samcera SOFR + 4%		0.8	2.3	6.0	1.5	8.5	5.7	5.8	5.6	5.2	5.0
Excess		1.6	-1.0	-4.7	0.4	-10.5	-1.6	-6.6	-6.4	-3.5	-3.4
Graham Global Investment	95,909,007	1.8	4.9	6.9	3.9	0.0	6.9				6.5
Samcera SOFR +4%	<u> </u>	0.7	2.2	5.8	1.5	8.3	5.6				5.5
Excess		1.0	2.8	1.2	2.4	-8.2	1.3				1.0
PIMCO MAARS Fund L.P.	93,716,070	2.6	2.3	3.4	1.3	-0.1	9.4				8.4
Samcera SOFR +4%	20,110,011	0.8	2.3	6.0	1.6	8.7	5.7				5.6
Excess		1.9	0.0	-2.7	-0.3	-8.7	3.7				2.8
Acadian MAAR Fund LLC	81,172,183	2.2	1.0	-1.2	0.9	-2.5					0.7
Samcera SOFR +4%		0.8	2.3	6.0	1.6	8.7					5.8
Excess		1.4	-1.3	-7.2	-0.6	-11.2					-5.0
CFM SYS Global Macro Fund	84,253,799	2.7	-3.6	-4.0	1.4	-4.0					7.5
Samcera SOFR +4%		0.8	2.3	6.0	1.6	8.7					5.8
Excess		1.9	-5.9	-10.0	-0.1	-12.7					1.7
Inflation Hedge	1,024,025,589	-0.5	-0.1	-2.8	-0.1	-2.3	9.0	4.1	5.0		5.5
SamCERA Inflation Hedge Index		-2.4	-1.3	-1.0	-1.1	-7.4	10.0	6.6	6.7		
Excess		1.9	1.2	-1.9	1.0	5.0	-1.1	-2.4	-1.7		
Real Estate	521,768,632	0.1	-1.1	-6.4	0.1	-4.9	7.3	6.2	6.7		7.0
Samcera NCREIF ODCE (gross)	<u> </u>	0.0	-2.7	-5.8	0.0	-10.0	8.0	6.5	7.0		6.9
Excess		0.1	1.6	-0.6	0.1	5.1	-0.7	-0.3	-0.3		0.1
Invesco Core Real Estate	269,357,753	0.0	-2.6	-11.4	-0.0	-10.1	7.0	5.7	6.4	8.2	7.3
Samcera NCREIF ODCE (gross)	· · · · · ·	0.0	-2.7	-5.8	0.0	-10.0	8.0	6.5	7.0	8.7	7.5
Excess		0.0	0.1	-5.6	-0.0	-0.2	-1.0	-0.8	-0.6	-0.5	-0.3
Invesco US Val IV	600,150	0.0	-1.4	-33.2	-1.4	-58.6	-21.8	-10.6	-5.3		-3.3
Samcera NCREIF ODCE (gross)	330,100	0.0	-2.7	-5.8	0.0	-10.0	8.0	6.5	7.0		7.3
Excess		0.0	1.3	-27.5	-1.4	-48.7	-29.7	-17.1	-12.2		-10.6



# Composite Return Summary August 31,2023



Composite Returns (NET)	Market Value (\$)	1 Mth.	3 Mth.	YTD	FYTD	1 Yr.	3 Yr.	5 Yr.	7 Yr.	10 Yr.	ITD
Invesco Value-Add Fund	21,355,451	-0.8	-0.8	-6.0	-0.8	-2.3					-2.3
Samcera NCREIF ODCE (gross)		0.0	-2.7	-5.8	0.0	-10.0					-10.0
Excess		-0.8	1.9	-0.2	-0.8	7.7					7.7
PGIM Real Estate US Debt Fund	74,735,542	0.7	1.9	4.9	1.2	7.3	6.1	6.0			5.4
Samcera NCREIF ODCE (gross)		0.0	-2.7	-5.8	0.0	-10.0	8.0	6.5			6.6
Excess		0.7	4.6	10.6	1.2	17.3	-1.9	-0.5			-1.3
Invesco US VAL V	30,646,122	0.0	-0.6	-5.7	-0.6	-5.6	10.3				7.4
Samcera NCREIF ODCE (gross)		0.0	-2.7	-5.8	0.0	-10.0	8.0				
Excess		0.0	2.0	0.1	-0.6	4.4	2.3				
Harrison Street Core Property	96,411,353	0.0	0.4	-1.7	0.0	0.5	6.8				5.8
Samcera NCREIF ODCE (gross)		0.0	-2.7	-5.8	0.0	-10.0	8.0				6.3
Excess		0.0	3.1	4.1	0.0	10.5	-1.2				-0.6
Stockbridge Value IV	28,662,261	0.1	0.1	3.0	0.1	6.2					9.7
Samcera NCREIF ODCE (gross)		0.0	-2.7	-5.8	0.0	-10.0					8.6
Excess		0.1	2.7	8.7	0.1	16.2					1.2
Public Real Assets	175,481,858	-2.7	3.8	-1.2	1.0	-2.6	9.6	1.0			
SamCera Liquid Real Asset Inde		-2.7	3.9	-1.2	1.0	-2.7	9.6	4.3	5.0		5.8
Excess		-0.0	-0.1	0.0	-0.0	0.1	0.1	-3.3			
SSGA CST REAL ASSET NL	175,481,858	-2.7	3.8	-1.2	1.0	-2.6	9.6	4.3			
SamCera Liquid Real Asset Inde		-2.7	3.9	-1.2	1.0	-2.7	9.6	4.3	5.0		5.0
Excess		-0.0	-0.1	0.0	-0.0	0.1	0.1	-0.0			
Private Real Assets	326,775,098	-0.3	-0.6	2.7	-0.9	4.6	14.3	6.3	7.5		9.6
SamCERA Private Real Asset Idx		-6.6	-2.8	10.2	-4.5	-7.5	13.3	6.2	8.5		9.9
Excess		6.3	2.2	-7.4	3.6	12.1	1.0	0.0	-0.9		-0.3



# Composite Return Summary August 31,2023



Composite Returns (NET)	Market Value (\$)	1 Mth.	3 Mth.	YTD	FYTD	1 Yr.	3 Yr.	5 Yr.	7 Yr.	10 Yr.	ITD
Liquidity	433,494,301	0.4	1.2	2.9	0.9	4.0					3.4
Liquidity Composite Benchmark		0.4	0.5	2.1	8.0	2.4					2.0
Excess		0.0	0.7	8.0	0.1	1.6					1.4
Cash Flow - Match Liquidity	310,751,711	0.4	0.9	2.5	0.9	3.4					2.7
BBG US Agg Govt Credit 1-3		0.4	0.4	1.9	8.0	1.6					1.1
Excess		-0.0	0.5	0.6	0.1	1.8					1.6
Insight Investment	296,499,801	0.4	1.0	2.6	0.9	3.0					2.1
BBG US Credit 1-3 Yrs		0.3	0.7	2.3	0.9	2.2					1.9
Excess		0.1	0.3	0.3	0.1	8.0					0.1
County Treasury Pool	14,251,909	0.0	0.4	3.1	0.4	3.6	1.9	2.0	1.7	1.4	2.6
91 Day T-Bill		0.5	1.3	3.1	0.9	4.3	1.5	1.7	1.5		
Excess		-0.5	-0.9	-0.0	-0.4	-0.7	0.4	0.3	0.2		
Cash & Cash Overlay	122,742,591	0.4	1.3	3.2	0.9	4.4					
ICE BofAML US 3-Month Treasury Bill		0.5	1.3	3.1	0.9	4.3	1.5				1.4
Excess		-0.0	0.0	0.1	0.1	0.2					
General Account	114,357,285	0.5	1.3	3.4	0.9	4.6	1.7	1.7	1.6	1.2	1.9
Transition Account	0										
Cash Overlay	8,385,306	0.3	1.3	2.9	0.8	3.8	1.1				1.1
<u></u>											
San Mateo County Overlay	6,071,831,667	-1.1	2.8	5.4	0.4	5.0	5.7	5.5	6.5	6.8	6.6
Samcera Total Plan Benchmark		-1.5	2.9	7.9	0.4	5.6	5.8	6.0	7.1	7.1	6.9
Excess		0.4	-0.1	-2.6	-0.0	-0.6	-0.1	-0.6	-0.6	-0.4	-0.4

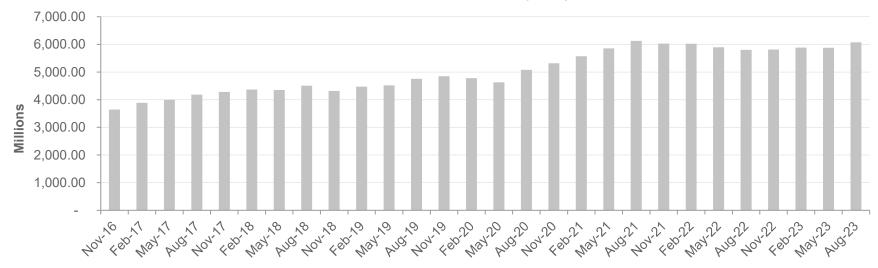




## **Record of Asset Growth**

	Three Months	One Year
TOTAL FUND		
Beginning Market Value	5,877,359,102	5,803,731,859
Contributions	265,415,493	442,230,965
Withdrawals	-238,359,011	-467,011,748
Income Received	30,592,368	123,299,808
Gain/Loss	137,173,123	171,496,842
Ending Market Value	6,071,831,667	6,071,831,667

## **Net Asset Values Over Time (\$000)**

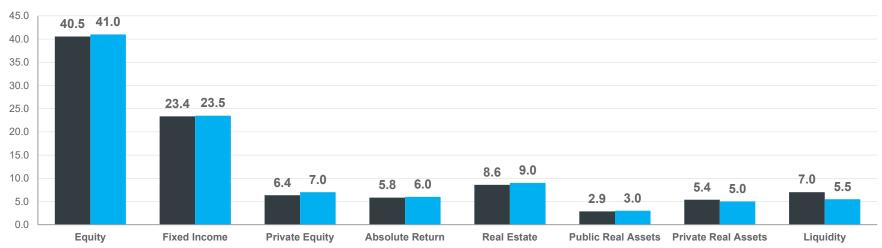




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## **Actual vs Target Weights**



■ Actual	Target
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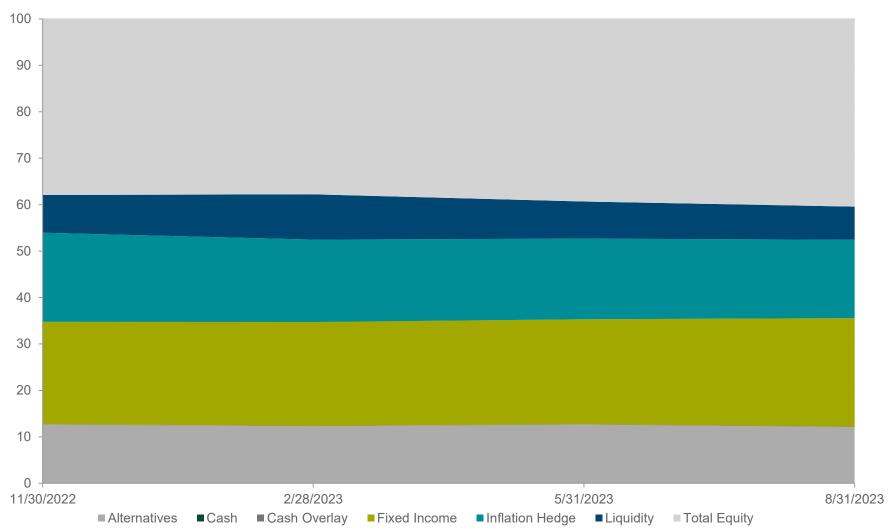
	Min	<b>Actual</b>	Target	Deviation	Max
Equity	38.0	40.5	41.0	-0.5	44.0
Fixed Income	21.5	23.4	23.5	-0.1	25.5
Private Equity	5.0	6.4	7.0	-0.6	9.0
<b>Absolute Return</b>	4.0	5.8	6.0	-0.2	8.0
Real Estate	7.0	8.6	9.0	-0.4	11.0
<b>Public Real Assets</b>	1.0	2.9	3.0	-0.1	5.0
<b>Private Real Assets</b>	3.0	5.4	5.0	0.4	7.0
Liquidity		7.0	5.5	1.5	



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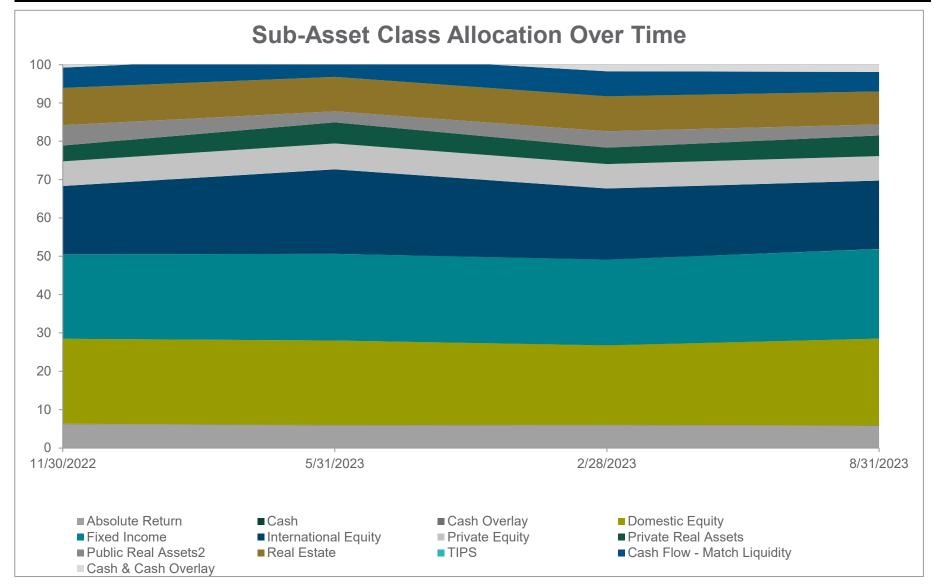


## **Asset Allocation over Time**



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## SAN MATEO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION Board of Retirement

September 26, 2023 Agenda Item 6.2

**TO:** Board of Retirement

**FROM:** Doris Ng, Investment Analyst

**SUBJECT:** Report on Opportunistic Credit Manager Annual Reviews

#### Recommendation

Accept and review the report on the annual reviews of SamCERA's private credit managers, White Oak Global Advisors and BlackRock.

## **Background**

On August 8<sup>th</sup>, SamCERA staff and consultant held annual review meetings with our private credit managers, White Oak Global Advisors and BlackRock. Each meeting lasted approximately 1.5 hours, and consisted of a firm/organizational update, investment process review, performance review and attribution, and current positioning/market outlook.

## Discussion

White Oak's Yield Spectrum Fund IV and V were both reviewed. Both strategies are private investment funds that invest primarily in senior-secured corporate credit and debt instruments, including term loans, asset-based loans, and equipment financing to small and middle-market companies.

Next, we reviewed two direct lending strategies, TCP Direct Lending Fund VIII and BlackRock Direct Lending Fund IX, with BlackRock. Both direct lending funds are private investment funds that invest in privately originated, performing senior secured debt in middle-market companies, with a value-oriented approach.

Attached you will find meeting notes from Verus summarizing the findings from these annual reviews.

### Attachments

White Oak Annual Review Meeting Notes (Confidential)
TCP-BlackRock Direct Lending Annual Review Meeting Notes (Confidential)

## SAN MATEO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION Board of Retirement

September 26, 2023 Agenda Item 7.1

**TO:** Board of Retirement

FROM: Gladys Smith, Assistant Executive Officer Mady

**SUBJECT:** Board of Retirement Meeting Schedule for 2024

#### Recommendation

Approve a Resolution Setting the Board of Retirement's Regular Meeting Schedule for Calendar Year 2024.

## **Background**

Board regulation 3.4 provides that the regular meetings of the Board shall be held on the Fourth Tuesday of each month and shall begin at 10:00 a.m. It further provides that by resolution, the Board may add, cancel, and/or change the date, time, and/or location of meetings, if the proposed change is included on the agenda of a regular meeting.

Historically, the Board combines its November and December meetings due to conflicts with the holidays at the end of those months. It is prudent to anticipate these changes by adopting a meeting schedule and placing it on the SamCERA website to provide public notice.

Consistent with recent years, the 2024 proposed schedule includes:

- Ten total meetings;
- Holding seven meetings on the fourth Tuesday of the month;
- Moving the May meeting, which would fall the day after Memorial Day, to the first Tuesday in June;
- Moving the October meeting to the fifth Tuesday of the month, which would allow staff additional time in preparing the Annual Comprehensive Financial Report;
- Holding the December meeting on December 3, 2024, the first Tuesday of that month; because of the holidays and to space the time between the October and December meetings;
- Convening the meetings at 10:00 a.m., except for the Board/Staff Retreat meeting;
- Holding the annual Board/Staff Retreat on March 26 (fourth Tuesday) with regular business taken up at 8:30 a.m.;
- Holding no meeting in May 2024;
- Holding no meeting in November due to the Thanksgiving Day holiday.

## **Attachment**

Resolution Setting the Board of Retirement's Regular Meeting Schedule for Calendar Year 2024

## SAN MATEO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION Board of Retirement

# RESOLUTION SETTING THE BOARD OF RETIREMENT'S REGULAR MEETING SCHEDULE FOR CALENDAR YEAR 2024

RESOLUTION 2023-\_\_\_\_

ESOLVED, by the Board of Retirement, that
VHEREAS, Board of Retirement Regulation Article III, Section 3.4 "Regular Meetings" provides that regular meetings of the Board shall be held on the Fourth Tuesday of each month, and that meetings shall begin at 10:00 a.m. and shall be held in SamCERA's offices; and
VHEREAS, Regulation Section 3.4 further provides that by resolution, the Board may add, cancel, and or change the date, time, and/or location of meetings within the County, if the proposed change is included on the agenda of a regular meeting; and
VHEREAS, this Board desires to set its meeting schedule for calendar year 2024 which generally has its meetings on the Fourth Tuesday of the month, but also reflects some cancellations and date changes;
NOW, THEREFORE, IT IS HEREBY DETERMINED AND ORDERED that the schedule of regular meetings for the Board of Retirement for calendar year 2024 shall be as reflected on the attached schedule, unless changed by subsequent resolution of the Board:
egularly passed and adopted, by the San Mateo County Employees' Retirement Association, oard of Retirement, on September 26, 2023.
yes, Trustees:
loes, Trustees:
bsent, Trustees:
bstain, Trustees:
laine Orr, Board Secretary amCERA

## **2024 SamCERA Board Meeting Schedule**

## All meetings to be held at 100 Marine Parkway, Suite 160 Redwood City, CA 94065

MONTH	DAY	WEEK & DAY	TIME
JANUARY	23	FOURTH TUESDAY	10:00 A.M.
FEBRUARY	27	FOURTH TUESDAY	10:00 A.M.
MARCH (BOARD/STAFF RETREAT)	26	FOURTH TUESDAY	8:30 A.M. BUSINESS ITEMS, FOLLOWED BY RETREAT
APRIL	23	FOURTH TUESDAY	10:00 A.M.
MAY	NO MEETING	NONE	
JUNE	4	FIRST TUESDAY	10:00 A.M.
JULY	23	FOURTH TUESDAY	10:00 A.M.
AUGUST	27	FOURTH TUESDAY	10:00 A.M.
SEPTEMBER	24	FOURTH TUESDAY	10:00 A.M.
OCTOBER	29	FIFTH TUESDAY	10:00 A.M.
NOVEMBER	NO MEETING	NONE	
DECEMBER	3	FIRST TUESDAY	10:00 A.M.