Coachella Valley Mosquito and Vector Control District

43420 Trader Place, Indio, CA 92201 | (760) 342-8287 | cvmosquito.org

Board of Trustees Meeting via Zoom and In-Person

Tuesday, October 11, 2022

6:00 p.m.

AGENDA

The Board of Trustees will take action on all items on the agenda.

Materials related to an agenda item that are submitted to the Board of Trustees after distribution of the agenda packets are available for public inspection in the Clerk of the Board's office during normal business hours and on the District's website.

Pursuant to Assembly Bill 361, this meeting will be conducted by video and/or teleconference as well as in-person public access to the meeting location. To view/listen/participate in the meeting live, please join by calling 1-888-475-4499 (toll-free), meeting ID: 837 6811 4107, or click this link to join: https://us02web.zoom.us/j/83768114107, or attend in person at the District office located at the address listed above. Written public comment may also be submitted to the Clerk of the Board by 1:30 p.m. on October 11, 2022, at mtallion@cvmosquito.org. Transmittal prior to the meeting is required. Any correspondence received during or after the meeting will be distributed to the Board as soon as practicable and retained for the official record.

Before entering the District's facilities, we request that you self-screen for COVID-19 symptoms. We want to work together to help limit the spread of COVID-19.

Assistance for those with disabilities: If you have a disability and need an accommodation to participate in the meeting, please call the Clerk of the Board at (760) 342-8287 for assistance so the necessary arrangements can be made.

1. **Call to Order** – Benjamin Guitron, President

2. **Pledge of Allegiance**

3. **Roll Call**

4. **Confirmation of Agenda**

5. **Public Comments**

Those wishing to address the Board should send an email to the Clerk of the Board by 1:30 p.m. on October 11, 2022, at mtallion@cvmosquito.org, or appear at the meeting to provide public comments. Please note that, as stated above, the meeting will be conducted remotely and in person.

A. **PUBLIC Comments — NON-AGENDA ITEMS:** This time is for members of the public to address the Board of Trustees on items of general interest (a non-agenda item) within the subject matter jurisdiction of the District. The District values your comments; however, pursuant to the Brown Act, the Board cannot take action on items not listed on the posted Agenda. **Comments are limited to a total of three (3) minutes per speaker for non-agenda items.**

B. **PUBLIC Comments — AGENDA ITEMS:** This time is for members of the public to address the Board of Trustees on agenda items (Open and Closed Sessions). **Comments are limited to three (3) minutes per speaker per agenda item.**

All comments are to be directed to the Board of Trustees and shall be devoid of any personal attacks. Members of the public are expected to maintain a professional, courteous decorum during public comments.

6. **Board Reports**

A. President's Report **– Benjamin Guitron, President**

Executive Committee oral report and Executive Committee minutes from September 27, 2022 **(Pg. 6)**

B. Finance Committee **– Doug Walker, Treasurer**

Finance Committee oral report and Finance Committee minutes from September 13, 2022 **(Pg. 9)**

7. Staff Informational Reports

A. Live Reports

- Cybersecurity Update – **Edward Prendez, Information Technology Manager**
- District Drone Project Update – **Edward Prendez, Information Technology Manager, and Gregorio Alvarado, Operation Program Coordinator**
- General Manager's Report **(Pg. 11)**

Questions and/or comments from Trustees regarding the reports

8. Items of General Consent

The following items are routine in nature and may be approved by one blanket motion upon unanimous consent. The President or any member of the Board of Trustees may request an item be pulled from Items of General Consent for a separate discussion.

A. Approval of Resolution 2022-24 authorizing remote teleconferencing meetings for the period October 14, 2022 – November 12, 2022 – **Jeremy Wittie, M.S., CSDM, General Manager (Pg. 16)**

B. Minutes for September 13, 2022, Board Meeting **(Pg. 23)**

C. Approval of expenditures for September 9, 2022-October 6, 2022 **(Pg. 29)**

D. Informational Items:

- Financials **– David I'Anson, Administrative Finance Manager (Pg. 30)**
- CalPERS Actuarial Valuation Reports **– David I'Anson, Administrative Finance Manager (Pg. 45)**
- Correspondence **(Pg. 113)**
- California Association of Public Information Officials Annual Conference – **Tammy Gordon, M.A., APR, Public Information Manager (Pg. 116)**
- Society of Vector Ecology (SOVE) Annual Conference – **Jennifer Henke, M.S., Laboratory Manager, and Kim Hung, Ph.D., BCE (Pg. 117)**
- Master Public Information Officer Program – **Tammy Gordon, M.A., APR, Public Information Manager (Pg. 118)**

9. Old Business

A. Approval for the General Manager to sign the agreement with Dudek Civil Engineering services for a new parcel map for the District's excess property and record with the City of Indio **– David I'Anson, Administrative Finance Manager (Pg. 120)**

10. New Business

A. Discussion and/or approval of Resolution 2022-25 adopting the CVMVCD Emergency Operations Plan – **Jeremy Wittie, M.S., CSDM, General Manager (Pg. 126)**

B. Approval for the General Manager to sign the agreement with USA Shade for the repairs to the District's shade structure **– David I'Anson, Administrative Finance Manager (Pg. 133)**

C. Discussion and/or approval to purchase a 1800Q irradiator from Rad Source Technologies, Inc. in an amount not to exceed $135,000.00, **Budgeted; Funds Available** – **Jennifer A. Henke, M.S., Laboratory Manager (Pg. 144)**

D. Discussion and/or approval to reschedule the November 8, 2022, Finance Committee meeting and Board meeting to November 15, 2022 **– Executive Committee (Pg. 149)**

11. Closed Session (s)

Closed Session (s):

A. **Public Employee Performance Evaluation pursuant to Government Code Section 54957 (b)(1)**

Title: General Manager

12. Comments by General Counsel

13. Trustee Comments, Requests for Future Agendas Items, Travel, and/ or Staff Actions

The Board may not legally take action on any item presented at this time other than to direct staff to investigate a complaint or place an item on a future agenda unless (1) by a majority vote, the Board determines that an emergency exists, as defined by Government Code Section 54956.5, or (2) by a two-thirds vote, the board determines that the need for action arose subsequent to the agenda being posted as required by Government Code Section 54954.2(a). Each presentation is limited to no more than three minutes.

14. Adjournment

At the discretion of the Board, all items appearing on this agenda, whether or not expressly listed for action, may be deliberated and may be subject to action by the Board.

Certification of Posting

I certify that on October 7, 2022, I posted a copy of the foregoing agenda near the regular meeting place of the Board of Trustees of the Coachella Valley Mosquito & Vector Control District and on the District's website, said time being at least 72 hours in advance of the meeting of the Board of Trustees (Government Code Section 54954.2)

Executed at Indio, California, on October 7, 2022.

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Melissa Tallion, Clerk of the Board

BOARD REPORTS

Coachella Valley Mosquito and Vector Control District

Executive Committee Meeting Via Zoom

DRAFT - Minutes

TIME AND DATE: 4:30 p.m. Tuesday, September 27, 2022

LOCATION: 43420 Trader Place, Indio, CA 92201-Via Zoom

TRUSTEES PRESENT:

Indio	Benjamin Guitron, President
Indian Wells	Clive Weightman, Vice President
Palm Springs	Doug Kunz, Secretary
Palm Desert	Doug Walker, Treasurer

ABSENT:
None

Members of the Public present:
No

OTHERS PRESENT:
Jeremy Wittie, M.S., General Manager
Melissa Tallion, Clerk of the Board

1. **Call to Order**
   President Guitron called the meeting to order at 4:30 p.m.

2. **Roll Call**
   Roll call indicated four (4) Committee members were present.

3. **Confirmation of Agenda**
   There was a consensus to approve the agenda as presented.

4. **Public Comments**
   None

5. **Review of October 11, 2022, draft Board meeting agenda**
   The draft October Board meeting agenda was reviewed by the Committee. Changes to the agenda and discussion included adding a live presentation to give an update on the District's Drone Program, moving item B of General Consent to a New

Business item, adding an Old Business item to discuss the District's excess property, and a discussion and/or approval of the proposal from RadSource.

6. **Old Business-**None

7. **New Business**

   A. Discuss and Review: General Manager Public Employee Performance Evaluation Process

   A discussion ensued. This was a result of the previous Executive Committee meeting and their ask for a draft policy/process. ***Executive Committee Recommendation:***

   - *Bring the Annual Evaluation Process document to the October Board meeting with the suggested edits for discussion and/or approval.*
   - *Continue to use the process that is already in place for the 2022 annual review and implement the new process for the 2023 annual review.*
   - *Staff will work with Legal Counsel to update the last page of the GM Survey to include a page with suggested goals for the following year to use for the 2022 annual evaluation. Legal Counsel will discuss the updated survey to be discussed during the October Board meeting.*

   B. Discussion regarding the timing of the November 8th Board Meeting

   The November Board meeting falls on Election day and with four (4) Board members up in their City Council seats. The Executive Committee is recommending:

   - *Hold the Finance Committee and Board meeting on November 15, 2022. This item will be added to the October Board meeting agenda as a discussion/recommendation from the Executive Committee.*

8. **Trustee/staff comments**

   Jeremy Wittie passed the Certified Special District Manager (CSDM) exam.

9. **Confirmation of next meeting**

   The next meeting was scheduled for November 4, 2022, at 1:00 p.m.

10. **Adjournment**

    The meeting was adjourned by President Guitron at 5:32 p.m.

COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT

Finance Committee Meeting Via Zoom
DRAFT-Minutes

TIME 4:30 p.m. **DATE:** September 13, 2022

LOCATION: 43420 Trader Place Indio, CA 92201 via zoom

COMMITTEE MEMBERS PRESENT:

Palm Desert	Doug Walker, Board Treasurer
Indian Wells	Clive Weightman, Board Vice-President
County at Large	Bito Larson, Trustee

COMMITTEE MEMBERS ABSENT:
None

OTHER TRUSTEES PRESENT:
None

STAFF PRESENT:
Jeremy Wittie, General Manager
David I'Anson, Administrative Finance Manager
Melissa Tallion, Executive Assistant/Clerk of the Board

MEMBERS OF THE PUBLIC PRESENT:
No

1. **Call to Order –** *Treasurer Walker called the meeting to order at 4:31 p.m.*

2. **Roll Call -** *Roll call indicated all three (3) Committee members were present.*

3. **Confirmation of Agenda -** *The agenda was confirmed as presented.*

4. **Public Comments -** *None.*

5. **Items of General Consent**
   A. Approval of Minutes from July 12, 2022, Finance Committee Meeting

   On a motion from Trustee Weightman seconded by Trustee Larson, and passed by the following roll call votes, the Committee approved the minutes as presented.

Ayes: Treasurer Walker, Trustees Larson, Weightman

Noes: None

Abstained: None

Absent: None

6. Discussion, Review, and/or Update

A. Review of Check Report from Abila MIP for the period of August 10, 2022, to September 6, 2022.
The check report was reviewed by Committee members and staff. A discussion ensued regarding a few checks that needed further explanation.

B. CalCard Charges – Statement dated August 23, 2022
The CalCard monthly statement was reviewed by Committee members and staff. Questions regarding specific charges were brought forward by the Committee and staff provided more information.

C. Review of August 2022 Financials and Treasurers Report
The Committee and staff reviewed the Financials and Treasurers Report.

D. Review of preliminary June 30, 2022 revenue and expenditures.
The Committee and staff reviewed the preliminary June 30, 2022 revenue and expenditures. Questions regarding the report were brought forward by the Committee and staff provided more information.

7. Old Business

A. Options for FY 2021-22 projected a $0.3 million surplus
The Committee reviewed the suggestions that staff made for the surplus. A discussion ensued. The Finance Committee stated that the suggestions (except for the CalPERS option) were normal business for the District and those funds should be moved into one of the District's reserve accounts. The Finance Committee recommended that staff bring the remaining projects to the Committee as needed.

8. New Business

A. Review of finance-related items on the Board agenda
The Board agenda was reviewed.

9. Schedule Next Meeting- *The next Finance Committee meeting was scheduled for October 11, 2022, at 4:30 p.m.*

10. Trustee and/or Staff Comments/Future Agenda Items - *None*

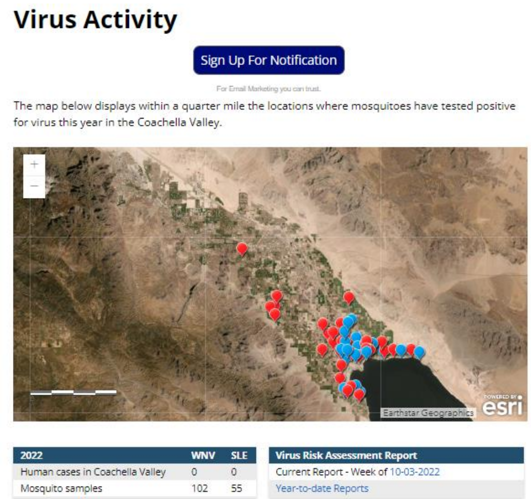
11. Adjournment - *Treasurer Walker adjourned the meeting at 5:32 p.m.*

	Coachella Valley Mosquito and Vector Control District **General Manager's Report**	**October 11, 2022**

Integrated Vector Management (IVM) Program

Mosquito Virus response

West Nile Virus (WNV) and St. Louis encephalitis (SLEV) positive samples of *Culex tarsalis and Culex quinquefaciatus* mosquitoes continue to be detected in the eastern Valley but the frequency of positive samples is slowing as expected at this time in the virus season. Our risk assessment is still at the Emergency planning level but this is due primarily to the increase in the mosquito population also typical for this time as temperatures become more moderate. Staff continues to monitor areas of greatest risk. Virus season typically lasts until the end of November.



https://www.cvmosquito.org/virusactivity

Area Wide Invasive Aedes Control in Palm Desert / Palm Springs

District staff and our helicopter service have completed a series of area wide applications in both Palm Desert (helicopter) and Palm Springs (truck-based) aimed at controlling the *Aedes aegypti mosquito*. Treatment areas were selected based on mosquito surveillance and service request data from 2021. Staff will be assessing the remaining surveillance and assay data to measure the impact of the efforts and start planning for the 2023 season. Once the final 2022 data is analyzed, staff will share the final outcomes of the effort this season at a future Board meeting.

What's happening with the Mosquitoes in the Trustee's neighborhoods?

Trustee Gardner and Trustee Downs met with me in September at their homes to get a sense of what mosquito surveillance and control look like firsthand in their backyard and local neighborhood. During this field day, mosquito traps were set in their backyards the day prior to our ride-along. The next morning, I met with them at their residence and processed and identified the mosquitoes caught in the traps with the aid of a dissecting microscope. Mosquito traps placed at both Trustee Gardner (DHS) and Trustee Downs (Rancho Mirage) homes had both the southern house mosquito, vector of WNV, and the invasive mosquito *Aedes aegypti.* Once we discussed the adult mosquito findings, we met with their local Vector Control Technician to observe the routine workflow for surveying and treating mosquito sources near their homes. Both field days were a success and resulted in a better understanding of what's happening with mosquitoes in their neighborhood. I want to thank Gabriela Harvey, Vector Ecologist and the lab staff for making sure surveillance materials were available and ready and to the Vector Control Technicians Jeremy Sandoval (DHS), and Aaron Rodriguez (Rancho Mirage) for doing an outstanding job walking Trustees and myself through their very important workflow. Also thank you to the Trustees for allowing me in and around their homes and taking the time out of their busy schedules to get better acquainted with the important work staff performs to protect public health in their communities.

Certified Special District Manager

The Special District Leadership Foundation (SDLF) is a 501(c)(3) formed by the California Special District Association to develop professional growth programs and certification opportunities for special district officials and employees to strengthen their service to the public. The ***Certified Special District Manager (CSDM)*** is a voluntary designation sought by individuals who strive to be the best. This certification helps document and recognize a candidate's knowledge, skills, and capabilities as a Special District Manager. The two-hour exam covers all key aspects of special district management, including governance, legal requirements, policy development, ethics, strategic planning, public and customer relations, organization, budget and finance, personnel, and supervision. https://www.sdlf.org/programs/certified-special-district-manager

After a year of reviewing exam materials and taking part in a CSDA study group with other Managers from around the state, I passed the certification exam on September 23, 2022. There are 58 managers from within the CSDA organization who have obtained the certification, four of which come from Riverside County, and four from the Vector Control community.

Special District Association of Riverside County (SDARC)

SDARC held its 3rd luncheon of the year in Beaumont. Attendees were management staff and Trustees from special Districts around Riverside County. These meetings are great opportunities to meet with others and discuss issues relevant to special districts here in the County. Supervisor Jeff Hewitt was the speaker for the luncheon speaking on challenges facing the County in the years to come. The next luncheon will be on November 30, 2022, and the speaker will be Senator Rosilicie Ochoa Bogh who represents the 23rd Senate District which spans both San Bernardino and Riverside counties. https://ochoa-bogh.cssrc.us/ *Special thanks go to Melissa Tallion as she does much of the behind-the-scenes work and organization to make these SDARC luncheons a success.*

Administration/HR

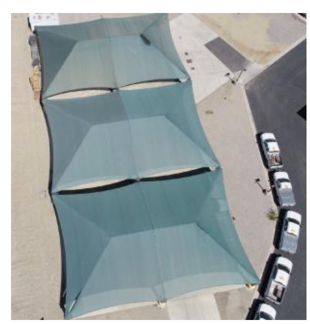
Congratulations to Salvador Becerra who was recently promoted to Field Supervisor on October 1, 2022. Salvador started his career with the District in 2006 as a Seasonal Technician. In 2007 he was hired full-time as a Vector Control Technician for the District's RIFA program and in 2017 was promoted to Vector Control Technician II. I am excited for Salvador and look forward to his continued growth and service to the District and the Operations Department.

Board Packet Summary

Please review the Board packet in its entirety, however, here are a few things of note:

- **CalPERS Actuarial Valuation Summary –** David I'Anson, Administrative Finance Manager, has provided a summary of the main points from this year's CalPERS actuarial study of the District's retirement benefit. Addressed are answers to some key questions such as, Is the District's Plan in good shape? The short answer is yes at least for the next two years based on CalPERS returns on investments and additional payments the Board made to reduce the unfunded liability. Normal costs and UAL are impacted by the gains and losses in CalPERS investments and decisions the District makes to address pension obligations. While the District's current funding ratio is slightly above 100% this may change in future years. **(p. 45)**

- **Master Public Information Officer Program -** Tammy Gordon, Public Information Manager, has dedicated a great amount of time to continue the development of her skills as a professional Public Information Manager. She completed a yearlong course and research paper through FEMA aimed at developing and honing her public information and external affairs skills. Congratulations! **(p.118)**
- **Parceling of District Vacant Land -** After consulting with City of Indio staff and finally securing a proposal from a Civil Engineer, the District is ready to move forward with completing the parceling project for the District's vacant land on Trader Place. This is the result of Board and staff work from 2021. Once parceled, it will allow the District flexibility to sell parts of all of the land as deemed necessary in the future. **(p. 120)**
- **District Emergency Operations Plan –** The Plan is designed around Standardized Emergency Management System (SEMS) and will aid District staff in training, organizing, responding, and recovering from a natural or man-made disaster here in the Coachella Valley**. (p. 126)**



- **Fleet Shade Repair –** The District relies on covered parking areas to protect and extend the functional life of its fleet. The District has a large parking area covered by a fabric shade structure that has ripped due to wind damage this past year. The manufacturer has improved on their original design to withstand high wind and blowing sand. The District's insurer has agreed to cover the cost of the shade fabric and the proposed design modifications. The District is responsible for the $25,000 deductible. **(p. 133)**

- **Irradiator for Mosquito Sterilization –** As part of the District's Strategic Business Plan and both the Board and Staffs commitment to seeking long-term solutions to the invasive mosquito *Aedes aegypti*, the Staff needs to move forward with the purchase of an irradiator device to sterilize male mosquitoes. This device will enable small-scale evaluations and allow Lab staff to evaluate the potential for SIT as a viable and ongoing tool to control certain mosquito species here in the Coachella Valley. **(p. 144)**
- **Election Day and November Board Meeting –** November 8th is both our next board meeting and election. As we have several Trustees currently running for office in their Cities it is proposed that the Board move the November Board meeting to November 15th to allow our Trustees to focus on elections and allow staff and the public more time to get to the polls to vote**. (p. 149)**

Future Events

- The **Mosquito and Vector Control Association (MVCAC)** Fall meeting will be held in Visalia on November 1-3. Portions of the meeting will be accessible via Zoom. Melissa will supply the meeting information to Trustees interested in attending either in person or via zoom. https://www.mvcac.org/events-calendar/
- **What's happening with Mosquito Surveillance and Control in your Neighborhood?** -

Trustee	Scheduled Dates
Guitron	October 14
Walker	To be rescheduled
Weightman	October 26,27
Percy	November 8,9

Melissa will reach out to Trustees to schedule a ride-along with the GM before the year's end.

Thank you for taking the time to review the Board packet any questions about the contents of the Board packet, feel free to reach out to me directly either at the District office, 760-342-8287 or via email at jwittie@cvmosqito.org

Respectfully submitted,

Jeremy Witte, MS, CSDM
General Manager

ITEMS OF GENERAL CONSENT

	Coachella Valley Mosquito and Vector Control District **Staff Report**	**October 11, 2022**

Agenda Item: Informational Item
Discussion and/or approval of Resolution 2022-24 authorizing remote teleconferencing meetings for the period October 14, 2022 – November 12, 2022 – **Jeremy Wittie, M.S., CSDM, General Manager**

Background:
The Board of Trustees met on September 13, 2022, and adopted Resolution 2022-22 proclaiming a local emergency, ratifying the proclamation of a state of emergency by Executive Order N-09-21, and authorizing remote teleconferencing meetings of the Legislative bodies of the Coachella Valley Mosquito and Vector Control District for the period of September 14, 2022 – October 13, 2022, pursuant to the provisions of the Ralph M. Brown act.

If a local agency passes a resolution by majority vote that meeting in person during the state of emergency would present imminent risks to the health or safety of attendees, the resolution will permit meeting under the provisions of AB 361 for a maximum period of 30 days. After 30 days, the local agency would need to renew its resolution, consistent with the requirements of AB 361, if the agency desires to continue meeting under the modified Brown Act requirements or allow the resolution to lapse.

This Resolution will cover all meetings of the Legislative Bodies.

- Board of Trustees Meetings
- Executive Committee Meetings
- Finance Committee Meetings

AB 361 provides that it will sunset on January 1, 2024.

Staff Recommendation:
Approve Resolution 2022-24 authorizing remote teleconferencing meetings for the period October 14, 2022 – November 12, 2022.

Continue to pass AB 361 resolutions to authorize remote teleconference meetings for all Board of Trustee meetings (Monthly, Executive, Finance, Ad hoc) until Governor Newsom resends his state of emergency addressing the COVID-19 pandemic.

Doing so will continue to allow Trustees, staff, and the public to attend and participate in meetings both in person or virtually which will enhance access to public meetings and maintain a safer meeting environment as we continue to conduct District business and navigate COVID-19 in the coming months.
Exhibits: • Resolution 2022-24

RESOLUTION NO. 2022-24

A RESOLUTION OF THE BOARD OF TRUSTEES OF THE COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT PROCLAIMING A LOCAL EMERGENCY, RATIFYING THE PROCLAMATION OF A STATE OF EMERGENCY BY EXECUTIVE ORDER N-09-21, AND AUTHORIZING REMOTE TELECONFERENCE MEETINGS OF THE LEGISLATIVE BODIES OF THE COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT FOR THE PERIOD OCTOBER 14, 2022 – NOVEMBER 12, 2022, PURSUANT TO PROVISIONS OF THE RALPH M. BROWN ACT

WHEREAS, the Coachella Valley Mosquito and Vector Control District (the "District") is committed to preserving and nurturing public access and participation in meetings of the Board of Trustees; and

WHEREAS, all meetings of the District's legislative bodies are open and public, as required by the Ralph M. Brown Act (Cal. Gov. Code §§ 54950 – 54963) (the "Brown Act"), so that any member of the public may attend, participate, and watch the District's legislative bodies conduct their business; and

WHEREAS, the Brown Act, Government Code section 54953(e), makes provisions for remote teleconferencing participation in meetings by members of a legislative body, without compliance with the requirements of Government Code section 54953(b)(3), subject to the existence of certain conditions; and

WHEREAS, a required condition is that a state of emergency is declared by the Governor pursuant to Government Code section 8625, proclaiming the existence of conditions of disaster or of extreme peril to the safety of persons and property within the state caused by conditions as described in Government Code section 8558; and

WHEREAS, a proclamation is made when there is an actual incident, threat of disaster, or extreme peril to the safety of persons and property within the jurisdictions that are within the District's boundaries, caused by natural, technological, or human-caused disasters; and

WHEREAS, it is further required that state or local officials have imposed or recommended measures to promote social distancing or the legislative body meeting in person would present imminent risks to the health and safety of attendees; and

WHEREAS, such conditions now exist in the District, specifically, on March 4, 2020, the Governor of the State of California proclaimed a State of Emergency to exist in California as a result of the threat of COVID-19; despite sustained efforts, the virus continues to spread and is impacting nearly all sectors of California; and

WHEREAS, on February 28, 2022, the California Department of Public Health website was updated and strongly recommends that all persons, regardless of vaccine status, continue indoor masking; and

WHEREAS, given the continued heightened risks of the predominant variant of COVID-19 in the community, holding meetings with all members of the legislative body, staff, and the public in attendance in person in a shared indoor meeting space would pose an unnecessary and immediate risk to the attendees; and

WHEREAS, the Board of Trustees does hereby find that the ongoing risk posed by the highly transmissible COVID-19 virus will continue to cause conditions of peril to the safety of persons within the District which are likely to be beyond the control of services, personnel, equipment, and facilities of the District, and the Board of Trustees desires to proclaim a local emergency and ratify the proclamation of a state of emergency by the Governor of the State of California; and

WHEREAS, as a consequence of the local emergency, the Board of Trustees does hereby find that the legislative bodies of the District shall conduct the District's meetings without compliance with Government Code section 54953(b)(3), as authorized by Government Code section 54953(e), and that such legislative bodies shall comply with the requirements to provide the public with access to the meetings as prescribed in Government Code section 54953(e)(2); and

WHEREAS, the Board of Trustees previously adopted Resolution No. 2022-22 on September 13, 2022, finding that the requisite conditions exist for the legislative bodies of the District to conduct remote teleconference meetings without compliance with Government Code section 54953(b)(3); and

WHEREAS, all meeting agendas stating meeting dates, times, and the manner in which the public may attend and offer public comment by call-in option or internet-based service option shall be posted, at a minimum, on the District's website, and at the District's main office.

NOW, THEREFORE, THE BOARD OF TRUSTEES OF THE COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT DOES HEREBY RESOLVE AS FOLLOWS:

Section 1. Recitals.

The recitals set forth above are true and correct and are incorporated into this Resolution by this reference.

Section 2. Proclamation of Local Emergency.

The Board of Trustees hereby proclaims that a local emergency now exists throughout the District, and the ongoing risk posed by the highly transmissible COVID-19 virus has caused and will continue to cause, conditions of peril to the safety of persons within the District; furthermore, the guidance of Riverside County Public Health recommends physical distancing and face coverings.

Section 3. Ratification of Governor's Proclamation of a State of Emergency.

The Board of Trustees hereby ratifies the Governor of the State of California's Proclamation of a State of Emergency, effective as of its issuance date of March 4, 2020.

Section 4. Remote Teleconference Meetings.

The President of the Board of Trustees, the District's General Manager, and legislative bodies of the District are hereby authorized and directed to take all actions necessary to carry out the intent and purpose of this Resolution including conducting open and public meetings in accordance with Government Code section 54953(e) and other applicable provisions of the Brown Act.

Section 5. Effective Date.

This Resolution shall take effect immediately upon its adoption and shall be effective until the earlier of (i) November 12, 2022, or such time the Board of Trustees adopts a subsequent resolution in accordance with Government Code section 54953(e)(3) to extend the time during which the legislative bodies of the District may continue to teleconference without compliance with Government Code section 54953(b)(3).

Section 6. Certification.

The Clerk of the Board of Trustees shall certify as to the adoption of this Resolution and shall cause the same to be processed in the manner required by law.

PASSED, ADOPTED, AND APPROVED, this 11th day of October, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

Benjamin Guitron, President
Board of Trustees

ATTEST:

Melissa Tallion, Clerk of the Board

APPROVED AS TO FORM:

Lena D. Wade, General Counsel

REVIEWED:

Jeremy Wittie, M.S., General Manager

COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT

Board of Trustees Meeting
Summary of Action Items
September 13, 2022

- The Board of Trustees approved Resolution 2022-22 authorizing remote teleconferencing meetings for the period September 14, 2022 – October 13, 2022.
- The Board of Trustees approved granting a day off in December to all full-time employees in appreciation of their work and dedication in protecting public health during the mosquito virus season.
- The Board of Trustees approved entering into an agreement with Chief Services for the replacement of doors at the District.
- The Board of Trustees approved the purchase of an Avigilion Surveillance Storage Server for the District's Surveillance Video System.
- The Board of Trustees approved Resolution 2022-23 adopting the Coachella Valley Mosquito and Vector Control District Supplemental Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program for changes to the District's Integrated Vector Management Plan.

COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT

Board of Trustees Meeting Via Zoom
DRAFT - Minutes

MEETING TIME: 6:00 p.m., Tuesday, September 13, 2022

LOCATION: 43420 Trader Place, Indio, CA 92201- ***Via Zoom***

TRUSTEES PRESENT

PRESIDENT: Benjamin Guitron	Indio
VICE PRESIDENT: Clive Weightman	Indian Wells
SECRETARY: Dr. Doug Kunz	Palm Springs (joined after roll call)
TREASURER: Doug Walker	Palm Desert
Steve Downs	Rancho Mirage
Gary Gardner	Desert Hot Springs
Rita Lamb	Cathedral City
Bito Larson	County at Large
John Peña	La Quinta

TRUSTEES ABSENT

Denise Delgado	Coachella
Janell Percy	County at Large

STAFF AND GENERAL COUNSEL PRESENT
Jeremy Wittie, General Manager
Lena Wade, Legal Counsel, SBEMP
Crystal Moreno, Human Resources Manager
David I'Anson, Administrative Finance Manager
Jennifer Henke, Laboratory Manager
Roberta (Bobbye) Dieckmann, Operations Manager
Edward Prendez, Information Technology Manager
Tammy Gordon, Public Information Officer
Melissa Tallion, Executive Assistant/Clerk of the Board

Other staff members joined the meeting as well

MEMBERS OF THE PUBLIC PRESENT
No

1. **Call to Order** – *President Guitron called the meeting to order at 6:02 p.m.*

2. **Pledge of Allegiance** – *Trustee Kunz led the Pledge of Allegiance.*

3. Roll Call – *At roll call nine (9) Trustees out of eleven (11) were present.*

4. Confirmation of Agenda – *President Guitron inquired if there were any agenda items to be shifted. Upon no objections by the Board of Trustees, the agenda was confirmed.*

5. Public Comments – *None*

6. Board Reports

A. President's Report:

President Guitron stated that the Executive Committee met and stated that the ad hoc building committee met, and the highlights will be discussed later in the Board meeting by Trustee Walker.

B. Finance Committee**:**

Treasurer Walker reported that the Finance Committee held its meeting before the Board meeting. The Committee had the opportunity to review the financials as well as the preliminary data from the last fiscal year. As per normal, there were some questions regarding the charges. All questions were answered to the Committee's satisfaction.

7. Staff Informational Reports

A. General Manager's Report

Jeremy Wittie gave a brief overview of his General Manager's Report.

B. Prerecorded Reports

Arbovirus Surveillance and Response update – **Jennifer Henke, M.S., Laboratory Manager, Roberta Dieckmann, Operations Manager, and Tammy Gordon, M.A., APR, Public Information Manager**

Jennifer Henke answered questions that were received.

8. Items of General Consent

The following items are routine in nature and may be approved by one blanket motion upon unanimous consent. The President or any member of the Board of Trustees may request an item be pulled from Items of General Consent for a separate discussion.

A. Approval of Resolution 2022-22 authorizing remote teleconferencing meetings for the period September 14, 2022-October 13, 2022

B. Minutes for July 12, 2022, Board Meeting and September 2, 2022, Special Board meeting

C. Approval of expenditures for July 7, 2022-September 8, 2022

D. Informational Items:

- Financials
- Correspondence

- Departmental Reports: Human Resources; Information Technology; Laboratory & Surveillance Control; Operations; and Public Outreach
- Environmental Systems Research Institute (ESRI) User Conference (UC) 2022, San Diego, July 11-15, 2022
- CSDA Annual Meeting
- District Travel
- Riverside Local Agency Formation Commission (LAFCO) Municipal Service Reviews (MSRs) and Sphere of Influence (SOI)

President Guitron asked if any member of the Board would like to pull any specific item for discussion. There was no further separate discussion.

On a motion from Trustee Peña, seconded by Trustee Lamb, and passed by the following roll call votes, the Board of Trustees approved all items of General Consent.

Ayes: President Guitron, Trustees Downs, Gardner, Lamb, Larson, Peña, Walker, Weightman

Noes: None

Abstained: Trustee Kunz

Absent: Trustees Delgado, Percy

9. Old Business-None

10. New Business

A. Update from the Ad Hoc Building Committee
Trustee Walker gave an overview of the ad hoc building committee meeting and stated that the focus of the meeting was to discuss the utilization of the Boardroom and to make it flexible for multiple uses. Trustee Peña mentioned that when construction begins the Board could rotate meetings in various cities. Please contact Melissa Tallion if you would like to volunteer your cities space.

B. Discussion and/or approval to grant a day off in December to all full-time employees in appreciation of their work and dedication in protecting public health during the mosquito virus season – **Jeremy Wittie, M.S., General Manager**
Jeremy Wittie introduced this agenda item, provided a summary and background information, and mentioned that the Board has been very gracious and acknowledged the work of the staff.

On a motion from Trustee Walker, seconded by Trustee Kunz, and passed by the following roll call votes, the Board of Trustees approved granting a day off in December to all full-time employees in appreciation of their work and dedication in protecting public health during the mosquito virus season.

Ayes: President Guitron, Trustees Downs, Gardner, Kunz, Lamb, Larson, Peña, Walker, Weightman

Noes: None

Abstained: None

Absent: Trustees Delgado, Percy

C. Discussion and/or approval to enter into an agreement with Chief Services for the replacement of doors at the District in an amount not to exceed $155,000.00 **Budgeted, Funds Available,** – **David I'Anson, Administrative Finance Manager**
David I'Anson introduced this agenda item and provided a summary and background information.

On a motion from Trustee Peña, seconded by Trustee Downs, and passed by the following roll call votes, the Board of Trustees approved entering into an agreement with Chief Services for the replacement of doors at the District in an amount not to $155,000.00.

Ayes: President Guitron, Trustees Downs, Gardner, Kunz, Lamb, Larson, Peña, Walker, Weightman

Noes: None

Abstained: None

Absent: Trustees Delgado, Percy

D. Discussion and/or approval to purchase an Avigilion Surveillance Storage Server for the District Surveillance Video System in the amount not to exceed $48,000.00, from BlueViolet. Capital Replacement Budget Fund #8415.13.300.000 – **Budgeted, Funds Available,** Capital Replacement **– Edward Prendez, Information Technology Manager**
Edward Prendez introduced this agenda item and provided a summary, and background information, and mentioned that the wrong government code was referenced in the staff report. The correct one should be California Government Code – 34090.6.

On a motion from Trustee Kunz, seconded by Trustee Lamb, and passed by the following roll call votes, the Board of Trustees approved the purchase of an Avigilion Surveillance Storage Server for the District Surveillance Video System in an amount not to exceed $48,000.00.

Ayes: President Guitron, Trustees Downs, Gardner, Kunz, Lamb, Larson, Peña, Walker, Weightman

Noes: None

Abstained: None

Absent: Trustees Delgado, Percy

E. Discussion and /or approval of Resolution 2022- 23 adopting the Coachella Valley Mosquito and Vector Control District Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program for Changes to the District's Integrated Vector Management Plan – **Jennifer A. Henke, M.S., Laboratory Manager**
Jennifer Henke introduced this agenda item and provided a summary, background information, and made a slight correction to reflect that this report is the Supplemental Mitigated Negative Declaration.

On a motion from Trustee Peña, seconded by Trustee Downs, and passed by the following roll call votes, the Board of Trustees approved Resolution 2022-23 adopting the Coachella Valley Mosquito and Vector Control District Supplemental Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program for changes to the District's Integrated Vector Management Plan.

Ayes: President Guitron, Trustees Downs, Gardner, Kunz, Lamb, Larson, Peña, Walker, Weightman

Noes: None

Abstained: None

Absent: Trustees Delgado, Percy

11. Closed Session (s)

Closed Session (s):

A. None

12. Comments by General Counsel – *None*

13. Trustee Comments, Requests for Future Agendas Items, Travel, and/ or Staff Actions
President Guitron thanked the District staff for continuing the District newsletter and thanked the staff members who have tenure with the District.

14. Adjournment

Coachella Valley Mosquito and Vector Control District

Checks Issued for the Period of:
September 9 - October 6, 2022

Check No	Payable To	Description	Check Amount	Total Amount
	Payroll Disbursement	September 16, 2022	225,723.86	
	Payroll Disbursement	September 30, 2022	232,159.56	
				457,883.42
Pre-Approved Expenditures Utilities/Benefits:				
44190	CalPERS Healthcare Acct	Healthcare 10/2022	89,377.66	
44191	CalPERS - Retirement Acct	Retirement Contributions: 09/16/2022PP	67,791.78	
44192	ICMA Retirement Trust	Deferred Compensation: 09/16/2022PP	23,411.32	
44193	Imperial Irrigation District	District Electricity Charges	5,388.72	
44194	Imperial Irrigation Dist-Lab Acct	District Electricity Charges	7,489.19	
44195	Indio Water Authority	District Water Usage	1,240.38	
44196	Principal Life Insurance Co.	Life/Vision Insurance Coverage 10/2022	13,756.52	
44197	SoCalGas	District Natural Gas Charges	183.06	
44206	Burrtec Waste & Recycling Svcs.	Waste Disposal Services	454.56	
				209,093.19
Pre-Approved Expenditures less than $10,000.00:				
44198	Abila	Cloud Computing Services	873.86	
44200	Advance Imaging Systems	Contract Services	579.50	
44201	Airgas USA, LLC	Lab Supplies	1,952.38	
44202	Allen Wayne, LTD	Reproduction and Printing	1,335.00	
44203	Alpha Media LLC	Advertising	3,575.00	
44204	American Leak Detection of Palm Springs	Repair & Maintenance	650.00	
44205	Burrtec Waste Industries	Repair & Maintenance	13.08	
44207	CDW Government, Inc	Software Licensing	2,515.94	
44209	Cintas Corporation #3	Uniform Expense	3,685.41	
44210	CleanExcel	Janitorial Services	3,811.00	
44211	C&R Wellness Works LLC dba Wellness Works	Employee Assistance Services	310.50	
44212	CSI Ceja Security International	Security Patrol Services	2,912.00	
44213	Desert Air Conditioning	Repair & Maintenance	815.08	
44214	Desert Electric Supply	Repair & Maintenance	237.59	
44215	Employee Relations Inc.	Recruitment/Advertising	125.52	
44216	Equipment Direct, Inc.	Safety Expense	919.46	
44217	Fedak & Brown, LLP	Professional Fees	8,210.00	
44218	Frontier Communications-Internet	Contract Services	445.98	
44219	Hypertec USA Inc	Cloud Computing Services	56.13	
44220	Jernigan's Sporting Goods, Inc.	Safety Expense	384.86	
44221	Linde Gas & Equipment Inc.	Cylinder Rentals	60.99	
44222	Marlin Leasing Corporation	Contract Services	803.14	
44223	NAPA Auto & Truck Parts	Vehicle Parts & Supplies	1,878.30	
44225	Pitney Bowes, Inc.	Postage	120.15	
44227	Slovak Baron Empey Murphey & Pinkney LLP	Attorney Fees	4,048.75	
44228	SC Commercial LLC dba SC Fuels	Motor, Fuel, Oil	8,626.81	
44229	Veolia ES Technical Solutions, LLC	Lab Supplies and Expense	339.32	
44230	Tops N Barricades, Inc.	Capital Outlay	638.36	
44231	Vector-Borne Disease Account	State Required CEU	156.00	
44232	Verizon Business	IT Comunnications	1,682.39	
44233	Verizon Wireless	Capital Equipment Replacement	4,821.98	
44234	Waterlogic Americas LLC	Employee Support	213.14	
44235	Waxie Sanitary Supply	Repair & Maintenance	305.63	
Cash - California Bank & Trust Checking				**57,103.25**
Cash - California Bank & Trust Checking				
44199	Adapco, Inc.	Chemical Control	183,491.85	
44224	Ocean Air Helicopters Inc.	Aerial Rural ULV Shoreline	24,000.00	
44226	Salton Sea Air Service	Aerial Larvicide Rural	48,218.27	
44236	U.S. Bank	Calcard Statement	139,631.16	
Cash - California Bank & Trust Check Run Total to be Approved				**395,341.28**
Total Expenditures: September 9 - October 6, 2022				**1,119,421.14**

Benjamin Guitron IV, President

Douglas Walker, Treasurer

FINANCE REPORTS

FINANCE

The financial reports show the preliminary balance sheet, receipts, and revenue and expenditure reports for the month ending September 30, 2022. The revenue and expenditure report shows that the operating budget expenditure for July 1, 2021, to September 30, 2022, is $4,463,699; total revenue is $4,955 resulting in excess revenue over (under) expenditure for the year to September 30, 2022, of ($4,458,744).

THREE YEAR FINANCIALS

	Actual	Budget	Actual	Actual
	9/30/2022	Budget	9/30/2021	9/30/2020
Revenue	**4,955**	**26,250**	**1,377**	**10,495**
Expenses				
Payroll	2,291,928	2,420,998	2,972,589	1,863,048
Administrative Expe	196,540	260,627	224,604	171,979
Utility	28,056	29,052	21,751	24,816
Operating Expense	643,171	550,570	384,492	304,764
Contribution to Capital	1,304,004	1,304,004	120,325	118,370
Total Expenses	**4,463,699**	**4,565,251**	**3,723,761**	**2,482,977**
Profit (Loss)	**(4,458,744)**	**(4,539,001)**	**(3,722,384)**	**(2,472,482)**

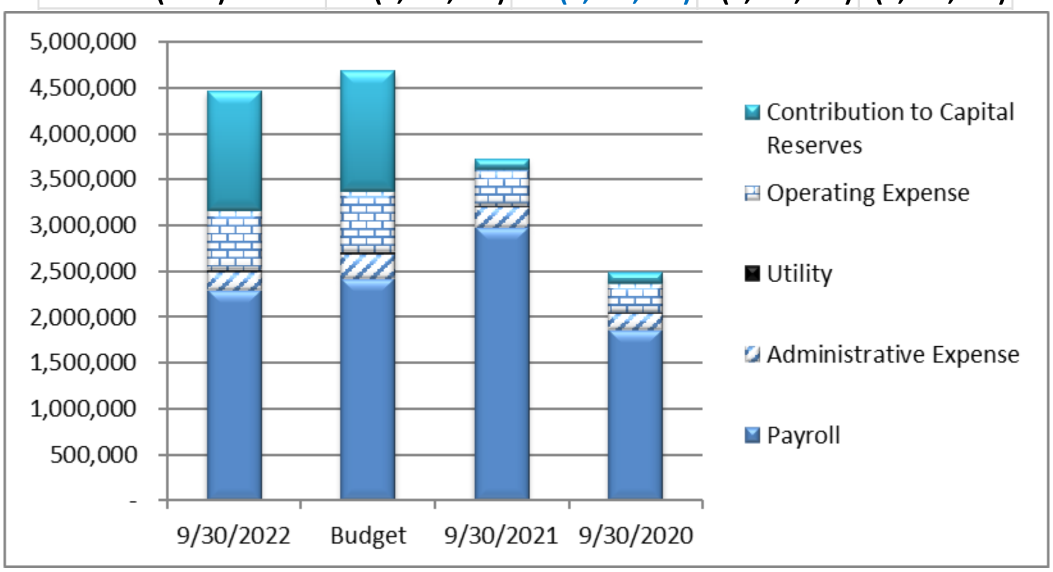


Figure 1 - Three Year Expenditure

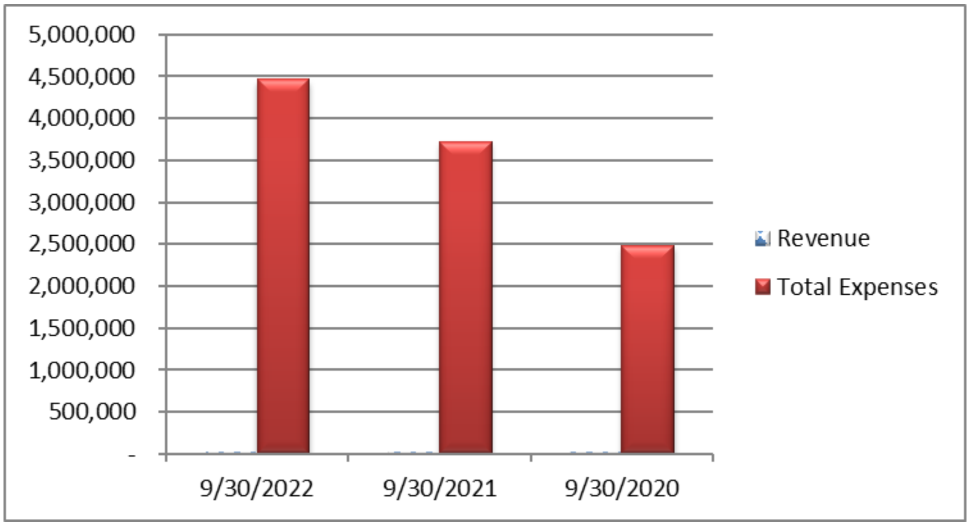


Figure 2 - Three Year Revenue & Expenditure

THREE YEAR CASH BALANCE

Cash Balances	9/30/2022	9/30/2021	9/30/2020
Investment Balance	11,899,825	11,162,651	10,276,682
Checking Accounting	71,152	4,580	79,801
Payroll Account	188,280	395,019	298,579
Petty Cash	2,000	2,000	2,000
Total Cash Balances	12,161,258	11,564,250	10,657,063

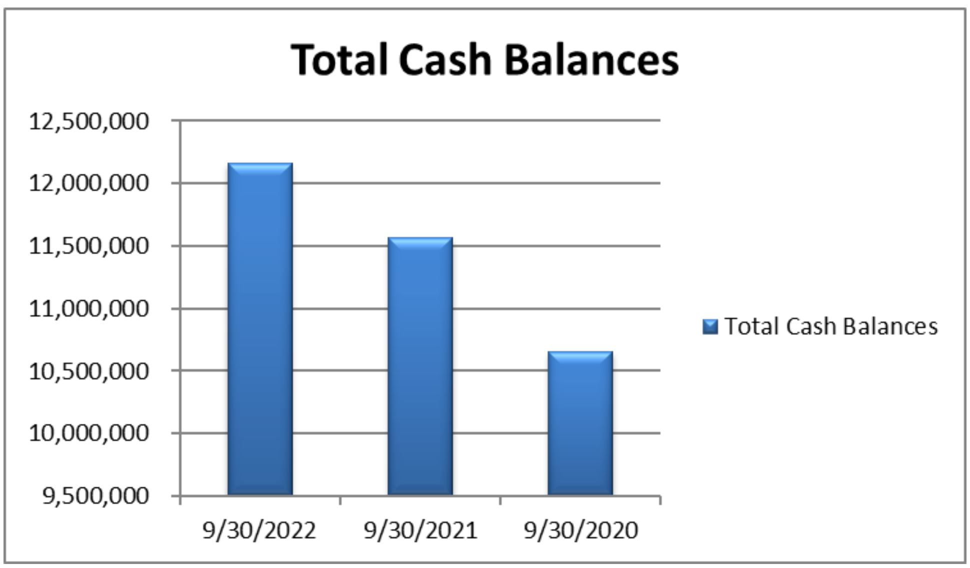


Figure 3 - Cash Balances

DISTRICT INVESTMENT PORTFOLIO 9/30/2022

The District's investment fund balance for the period ending September 30, 2022 is $11,936,251. The portfolio composition is shown in the pie chart. Local Agency Investment Fund (LAIF) accounts for 23.7% of the District's investments; the Riverside County Pooled Investment Fund is 40% of the total. The LAIF yield for the end of September was 1.51% and the Riverside County

Pooled Investment Fund was 1.41% this gives an overall weighted yield for District investments of 1.13%.

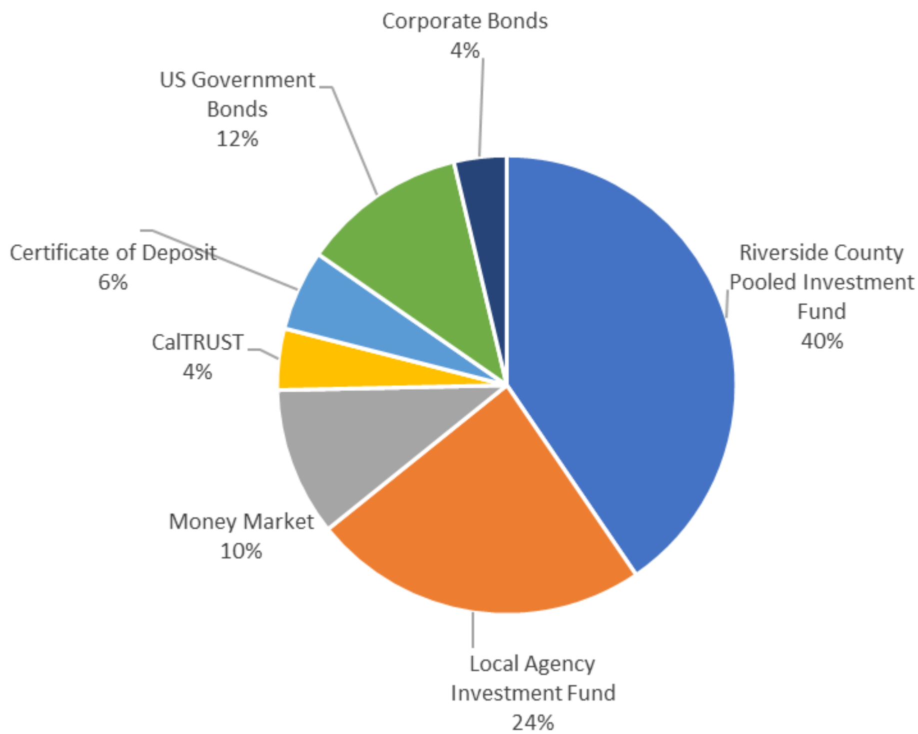


Figure 4 - Investment Portfolio 9/30/22

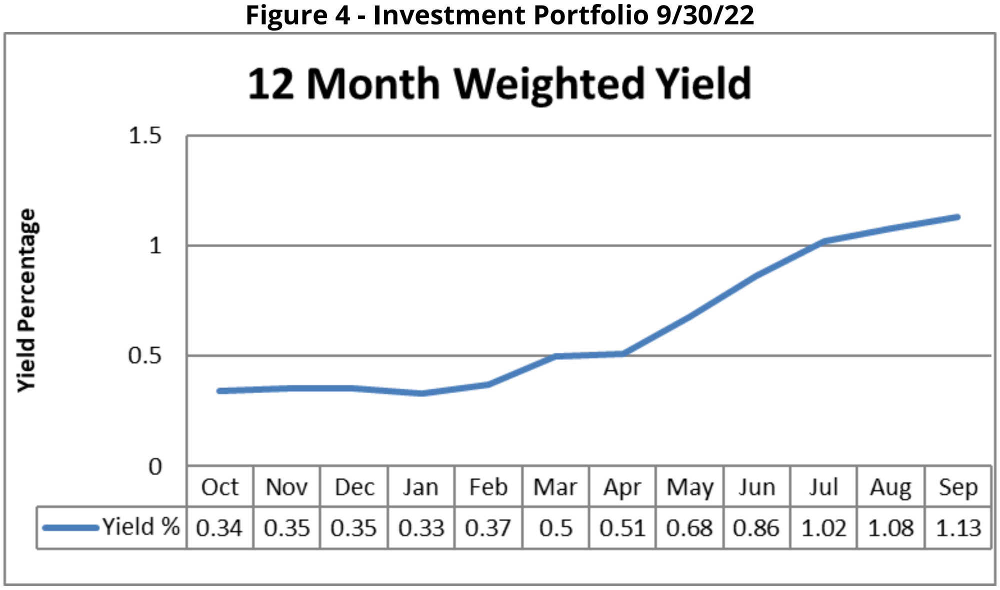


Figure 5 - District Investments Weighted Yield

Coachella Valley Mosquito and Vector Control District
FINANCES AT A GLANCE
ALL FUNDS COMBINED
For the Month Ended September 30, 2022

	Beginning of the Month	Change During the Month	End of the Month
INVESTMENTS	12,713,046	(813,221)	11,899,825
CASH	502,326	(240,893)	261,433
INVESTMENTS & CASH	13,215,372	(1,054,114)	12,161,258
CURRENT ASSETS	1,964,852	(55,934)	1,908,917
FIXED ASSETS	9,284,459	-	9,284,459
OTHER ASSETS	4,995,513	-	4,995,513
TOTAL ASSETS	29,460,196	(1,110,048)	28,350,147
TOTAL LIABILITIES	5,682,751	36,264	5,719,016
TOTAL DISTRICT EQUITY	23,777,444	(1,146,313)	22,631,132
TOTAL LIABILITIES & EQUITY	29,460,196	(1,110,048)	28,350,147

RECEIPTS		$ 8,089
CASH DISBURSEMENTS		
Payroll	$ 680,893	
General Admin	$ 381,310	
Total Cash Disbursements		$ (1,062,203)
NON-CASH ENTRIES: Accrual Modifications - Changes in A/P, A/R & Pre-paid insurance		$ (55,934)
Change during Month - Excess of Cash over Receipts & Non-Cash Adjustments		$ (1,110,048)

CVMVCD

Cash Journal - deposits

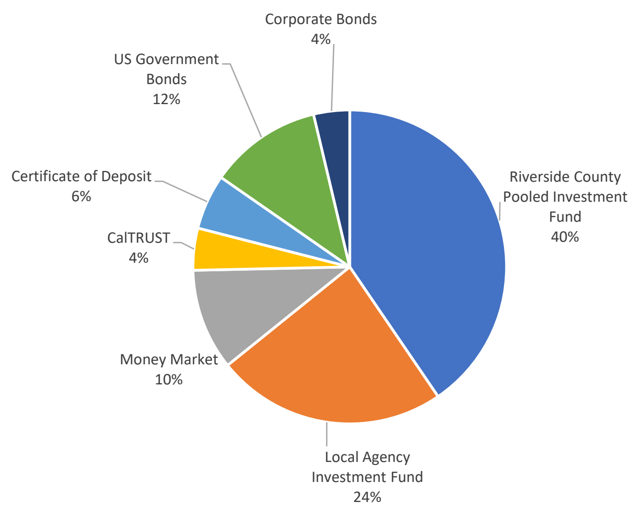
From 9/1/2022 Through 9/30/2022

Effective ...	Transaction Description	Deposits	Payee/Recipient Name
9/13/2022	Sepetember deposit	106.30	Riverside County
9/13/2022	September Deposits - Calcard Rebate	4,610.90	US Bank
9/13/2022	September Deposits - Fiesta Ford refund	20.13	Fiesta Ford
9/30/2022	PY Unsecured	3,192.77	Riverside County
9/30/2022	September Deposits	159.01	California Bank & Trust
Report Total		8,089.11	

COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT
INVESTMENT FUND BALANCES AS OF SEPTEMBER 30, 2022

INSTITUTION	IDENTIFICATION	Issue Date	Maturity Date	YIELD	General Fund	Thermal Capital Fund	Capital Equipment Replacement Fund	Capital Facility Replacement Fund	Capital Project Insectory Fund		BALANCE
LAIF	Common Investments			1.51%	2,154,627	34,303	63,505	393,521	188,647	$	2,834,603
Riverside County	Funds 51105 & 51115			1.41%	3,671,840	58,457	108,224	670,625	321,485	$	4,830,631
CalTRUST	Medium Term Fund			1.14%	392,584	6,250	11,571	71,702	34,372	$	516,480
CA Bank & Trust	Market Rate			0.15%	928,719	14,786	27,373	169,621	81,313	$	1,221,812
Pershing	Market Rate			0.00%	18,349	292	541	3,351	1,607	$	24,140
BMW Bank	Certificate of Deposit	11/20/2020	11/20/2025	0.50%			54,282	171,892		$	226,174
State BK of India	Certificate of Deposit	11/23/2020	11/24/2025	0.55%			54,361	172,144		$	226,505
Goldman Sachs	Certificate of Deposit	9/21/2021	9/22/2026	1.05%		37,736	45,057	142,681		$	225,474
Federal Home Ln	US Government Bonds	11/24/2020	11/24/2025	0.63%			166,936	528,629		$	695,565
Federal Natl Mtg Assn	US Government Bonds	11/25/2020	11/25/2025	0.63%			166,009	525,694		$	691,703
Bank Amer Corp	Corporate Bonds	11/25/2020	11/25/2025	0.65%			106,360	336,805		$	443,165
	Total Investments				7,166,119	151,824	804,218	3,186,667	627,424	**$**	**11,936,251**

PORTFOLIO COMPOSITION AS OF SEPTEMBER 30, 2022
WEIGHTED YIELD 1.13%



In compliance with the California Code Section 53646; the Finance Administrator of the Coachella Valley Mosquito and Vector Control District hereby certifies that sufficient liquidity and anticpated revenue are available to meet the District's budgeted expenditure requirements for the next six months.

Investments in the report meet the requirements of the Coachella Valley Mosquito and Vector Control District's adopted investment policy

Respectfully submitted

NOTED AND APPROVED

CVMVCD
Statement of Revenue and Expenditures
September 30, 2022

		Annual Budget	YTD Budget	**YTD Actual**	YTD Budget Variance	Current Period Budget	**Current Period Actual**	Current Period Variance	Annual Budget Variance	Percent Annual Budget
Revenues										
4000	Property Tax - Current Secured	4,438,762	0	**0**	0	0	**0**	0	(4,438,762)	(100)%
4010	Property Tax - Curr. Supplmntl	31,172	0	**0**	0	0	**0**	0	(31,172)	(100)%
4020	Property Tax - Curr. Unsecured	199,247	0	**0**	0	0	**0**	0	(199,247)	(100)%
4030	Homeowners Tax Relief	36,924	0	**0**	0	0	**0**	0	(36,924)	(100)%
4070	Property Tax - Prior Supp.	53,097	0	**0**	0	0	**0**	0	(53,097)	(100)%
4080	Property Tax - Prior Unsecured	9,069	0	**0**	0	0	**0**	0	(9,069)	(100)%
4090	Redevelopment Pass-Thru	6,305,008	0	**0**	0	0	**0**	0	(6,305,008)	(100)%
4520	Interest Income - LAIF/CDs	42,000	10,500	**324**	(10,176)	10,500	**159**	(10,341)	(41,676)	(99)%
4530	Other Miscellaneous Receipts	63,000	15,750	**4,631**	(11,119)	5,250	**4,631**	(619)	(58,369)	(93)%
4551	Benefit Assessment Income	2,299,810	0	**0**	0	0	**0**	0	(2,299,810)	(100)%
	Total Revenues	13,478,089	26,250	**4,955**	(21,295)	15,750	**4,790**	(10,960)	(13,473,134)	(100)%
Expenditures										
Payroll Expenses										
5101	Payroll - FT	5,910,271	1,477,568	**1,341,484**	136,084	492,523	**444,769**	47,754	4,568,787	77 %
5102	Payroll Seasonal	142,020	41,112	**33,423**	7,689	13,704	**10,141**	3,564	108,597	76 %
5103	Temporary Services	6,900	0	**0**	0	0	**0**	0	6,900	100 %
5105	Payroll - Overtime Expense	34,120	7,530	**5,026**	2,504	2,510	**765**	1,745	29,094	85 %
5150	CalPERS State Retirement	752,856	330,732	**288,106**	42,626	46,903	**43,412**	3,491	464,750	62 %
5155	Social Security Expense	360,143	90,383	**86,920**	3,463	30,128	**28,130**	1,997	273,223	76 %
5165	Medicare Expense	84,227	21,138	**20,612**	526	7,046	**6,789**	257	63,615	76 %
5170	Cafeteria Plan	1,263,700	315,925	**401,085**	(85,160)	105,308	**100,044**	5,264	862,615	68 %
5172	Retiree Healthcare	392,420	98,105	**97,949**	156	32,702	**32,937**	(235)	294,471	75 %
5180	Deferred Compensation	121,857	30,464	**17,054**	13,410	10,155	**20,812**	(10,658)	104,803	86 %
5195	Unemployment Insurance	32,066	8,041	**269**	7,772	2,680	**469**	2,211	31,798	99 %
	Total Payroll Expenses	9,100,581	2,420,998	**2,291,928**	129,070	743,658	**688,268**	55,390	6,808,653	75 %

CVMVCD
Statement of Revenue and Expenditures
September 30, 2022

		Annual Budget	YTD Budget	**YTD Actual**	YTD Budget Variance	Current Period Budget	**Current Period Actual**	Current Period Variance	Annual Budget Variance	Percent Annual Budget
Administrative Expenses										
5250	Tuition Reimbursement	20,000	5,000	**0**	5,000	1,667	**0**	1,667	20,000	100 %
5300	Employee Incentive	15,500	3,875	**370**	3,505	1,292	**107**	1,185	15,130	98 %
5302	Wellness	5,600	1,400	**166**	1,234	467	**70**	396	5,434	97 %
5305	Employee Assistance Program	4,000	1,000	**1,229**	(229)	333	**311**	23	2,772	69 %
6000	Property & Liability Insurance	193,570	53,393	**63,412**	(10,019)	17,798	**21,137**	(3,340)	130,158	67 %
6001	Workers' Compensation Insurance	206,753	70,438	**60,214**	10,224	23,479	**20,071**	3,408	146,539	71 %
6050	Dues & Memberships	43,495	33,432	**11,586**	21,846	262	**156**	106	31,909	73 %
6060	Reproduction & Printing	27,360	6,840	**1,759**	5,081	2,280	**1,487**	793	25,601	94 %
6065	Recruitment/Advertising	7,500	1,875	**2,489**	(614)	625	**493**	132	5,011	67 %
6070	Office Supplies	21,121	5,280	**4,228**	1,052	1,760	**1,790**	(30)	16,893	80 %
6075	Postage	5,750	1,438	**695**	743	479	**358**	121	5,055	88 %
6080	Computer & Network Systems	8,199	2,050	**786**	1,264	683	**594**	89	7,413	90 %
6085	Bank Service Charges	250	62	**70**	(8)	21	**0**	21	180	72 %
6090	Local Agency Formation Comm.	2,400	600	**2,541**	(1,941)	200	**0**	200	(141)	(6)%
6095	Professional Fees	45,100	11,275	**18,276**	(7,001)	3,758	**9,150**	(5,392)	26,824	59 %
6100	Attorney Fees	68,000	17,000	**8,433**	8,568	5,667	**4,049**	1,618	59,568	88 %
6105	Legal Services / Filing Fees	1,000	250	**0**	250	83	**0**	83	1,000	100 %
6106	HR Risk Management	4,500	4,500	**5,210**	(710)	0	**0**	0	(710)	(16)%
6110	Conference Expense	54,335	6,300	**650**	5,650	1,833	**0**	1,833	53,685	99 %
6115	In-Lieu	13,200	3,300	**3,574**	(274)	1,100	**1,000**	100	9,626	73 %
6120	Trustee Support	7,600	1,900	**612**	1,288	633	**151**	482	6,988	92 %
6200	Meetings Expense	7,010	1,253	**110**	1,143	418	**30**	388	6,900	98 %
6210	Promotion & Education	28,000	7,000	**1,187**	5,813	2,333	**250**	2,083	26,813	96 %
6220	Public Outreach Advertising	56,000	14,000	**1,177**	12,823	4,667	**137**	4,529	54,823	98 %
6500	Benefit Assessment Expenses	86,000	7,167	**7,768**	(602)	0	**0**	0	78,232	91 %
Total Administrative Expenses		932,243	260,627	**196,540**	64,087	71,838	**61,341**	10,497	735,703	79 %
Utilities										
6400	Utilities	114,383	28,596	**27,714**	882	9,532	**14,573**	(5,041)	86,669	76 %
6410	Telecommunications	1,824	456	**342**	114	152	**0**	152	1,482	81 %
Total Utilities		116,207	29,052	**28,056**	996	9,684	**14,573**	(4,889)	88,151	76 %

UNAUDITED

CVMVCD
Statement of Revenue and Expenditures
September 30, 2022

		Annual Budget	YTD Budget	**YTD Actual**	YTD Budget Variance	Current Period Budget	**Current Period Actual**	Current Period Variance	Annual Budget Variance	Percent Annual Budget
Operating										
7000	Uniform Expense	54,985	14,910	**9,950**	4,960	5,787	**3,722**	2,065	45,035	82 %
7050	Safety Expense	32,170	8,143	**3,586**	4,556	2,848	**1,409**	1,439	28,584	89 %
7100	Physican Fees	5,000	1,250	**895**	355	417	**0**	417	4,105	82 %
7150	IT Communications	56,500	14,125	**13,917**	208	4,708	**4,753**	(44)	42,583	75 %
7200	Household Supplies	3,000	750	**722**	28	250	**312**	(62)	2,278	76 %
7300	Repair & Maintenance	42,000	10,500	**11,517**	(1,017)	3,500	**3,995**	(495)	30,483	73 %
7310	Maintenance & Calibration	6,170	0	**568**	(568)	0	**0**	0	5,602	91 %
7350	Permits, Licenses & Fees	6,427	1,769	**2,746**	(976)	1,093	**0**	1,093	3,682	57 %
7360	Software Licensing	31,335	8,980	**2,516**	6,464	8,755	**2,516**	6,239	28,819	92 %
7400	Vehicle Parts & Supplies	44,720	11,180	**10,950**	230	3,727	**1,894**	1,833	33,770	76 %
7420	Offsite Vehicle Maint & Repair	16,882	4,220	**5,497**	(1,276)	1,407	**1,003**	404	11,385	67 %
7450	Equipment Parts & Supplies	26,940	7,590	**4,620**	2,970	2,483	**2,829**	(345)	22,320	83 %
7500	Small Tools Furniture & Equip	4,700	1,175	**517**	658	392	**303**	88	4,183	89 %
7550	Lab Supplies & Expense	35,720	10,730	**10,979**	(249)	3,577	**3,178**	399	24,741	69 %
7570	Aerial Pool Surveillance	6,000	0	**0**	0	0	**0**	0	6,000	100 %
7575	Surveillance	72,510	27,053	**24,325**	2,728	2,318	**9,526**	(7,209)	48,185	66 %
7600	Staff Training	85,700	20,622	**10,024**	10,598	5,896	**1,870**	4,026	75,676	88 %
7650	Equipment Rental	1,000	250	**53**	197	83	**53**	30	947	95 %
7675	Contract Services	164,827	43,227	**30,045**	13,182	17,121	**7,314**	9,807	134,782	82 %
7680	Cloud Computing Services	104,499	11,838	**17,041**	(5,203)	2,322	**8,779**	(6,457)	87,458	84 %
7700	Motor Fuel & Oils	130,300	32,575	**39,741**	(7,166)	10,858	**8,627**	2,232	90,559	70 %
7750	Field Supplies	14,600	3,650	**545**	3,105	1,217	**545**	672	14,055	96 %
7800	Control Products	573,616	154,566	**278,393**	(123,827)	40,360	**278,393**	(238,033)	295,222	51 %
7850	Aerial Applications	231,000	57,750	**122,622**	(64,872)	19,250	**48,317**	(29,067)	108,378	47 %
7860	Unmanned Aircraft Application Servic	40,000	10,000	**0**	10,000	3,333	**0**	3,333	40,000	100 %
8415	Capital Outlay	62,442	31,881	**7,122**	24,759	2,151	**3,811**	(1,660)	55,320	89 %
8510	Research Projects	150,000	34,337	**34,280**	57	11,446	**11,427**	19	115,720	77 %
9000	Contingency Expense	110,000	27,500	**0**	27,500	9,167	**0**	9,167	110,000	100 %
Total Operating		2,113,043	550,570	**643,170**	(92,600)	164,464	**404,575**	(240,111)	1,469,872	70 %

UNAUDITED

CVMVCD
Statement of Revenue and Expenditures
September 30, 2022

	Annual Budget	YTD Budget	**YTD Actual**	YTD Budget Variance	Current Period Budget	**Current Period Actual**	Current Period Variance	Annual Budget Variance	Percent Annual Budget
Contribution to Capital Reserves									
8900 Transfer to other funds	2,216,016	1,304,004	**1,304,004**	0	101,335	**101,335**	0	912,012	41 %
Total Contribution to Capital Reserves	2,216,016	1,304,004	**1,304,004**	0	101,335	**101,335**	0	912,012	41 %
Total Expenditures	14,478,089	4,565,251	**4,463,698**	101,553	1,090,978	**1,270,091**	(179,113)	10,014,391	69 %
Net revenue over/(under) expenditures	(1,000,000)	(4,539,001)	(4,458,743)	80,258	(1,075,228)	(1,265,301)			

CVMVCD
Balance Sheet
As of 9/30/2022

		Current Year
	Assets	
	Cash and Investments	
1000	Cash - Investments	11,899,825.34
1016	Petty Cash	500.00
1017	Petty Cash Checking	1,500.00
1035	CB&T General Checking	71,152.13
1036	CB&T Payroll Checking	188,280.47
	Total Cash and Investments	12,161,257.94
	Current Assets	
1050	Accounts Receivable	102,015.49
1080	Interest Receivable	12,832.89
1085	Inventory	546,950.85
1166	Prepaid IT Service	13,050.00
1167	Prepaid Research Proposals	34,280.11
1168	Prepaid Insurance	367,910.98
1169	Deposits	831,877.00
	Total Current Assets	1,908,917.32
	Fixed Assets	
1300	Equipment/Vehicles	2,117,915.50
1310	Computer Equipment	566,629.49
1311	GIS Computer Systems	301,597.91
1320	Office Furniture & Equipment	1,307,594.90
1330	Land	417,873.30
1335	Oleander Building	5,665,861.83
1336	Signage	23,651.39
1340	Structures & Improvements	3,244,697.72
1341	Bio Control Building	6,923,882.74
1342	Bio Control Equip/Furn	43,986.77
1399	Accumulated Depreciation	(11,329,232.93)
	Total Fixed Assets	9,284,458.62
	Other Assets	

CVMVCD
Balance Sheet
As of 9/30/2022

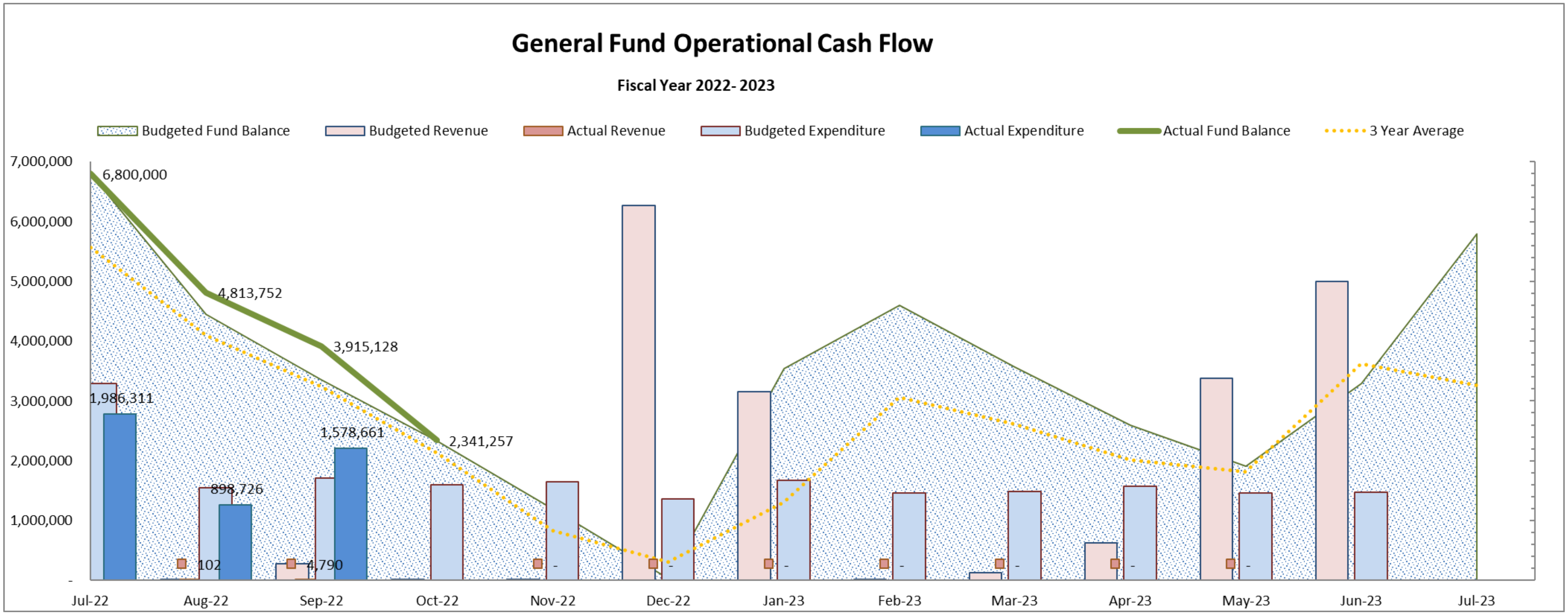
		Current Year
1520	Resources to Be Provided	3,514,102.32
1525	Deferred Outflows of Resources	1,068,928.00
1530	Deferred Outflows of Resources - OPEB	412,483.00
1900	Due to/from	0.12
	Total Other Assets	4,995,513.44
	Total Assets	28,350,147.32
	Liabilities	
	Short-term Liabilities	
	Accounts Payable	
2015	Credit Card Payable	132,972.95
2020	Accounts Payable	408,132.00
2030	Accrued Payroll	(638.77)
2040	Payroll Taxes Payable	12,197.74
2175	Claims/Judgements Payable	(485.20)
2185	Employee Dues	426.32
	Total Accounts Payable	552,605.04
	Deferred Revenue	
2025	Deferred Revenue	11,250.00
	Total Deferred Revenue	11,250.00
	Total Short-term Liabilities	563,855.04
	Long-term Liabilities	
2100	Pollution Remediation Obligation	2,100,000.00
2200	Net Pension Liability	1,612,919.00
2210	Deferred Inflows of Resources	85,158.00
2230	Deferred Inflows - OPEB	16,118.00
2300	Net OPEB Laibility	453,746.00
2500	Compensated Absences Payable	887,219.76
	Total Long-term Liabilities	5,155,160.76
	Total Liabilities	5,719,015.80

CVMVCD

Balance Sheet

As of 9/30/2022

		Current Year
	Fund Balance	
	Non Spendable Fund Balance	
3920	Investment in Fixed Assets	10,698,793.35
3945	Reserve for Prepaids & Deposit	1,041,259.68
3960	Reserve for Inventory	459,270.86
	Total Non Spendable Fund Balance	12,199,323.89
	Committed Fund Balance	
3965	Public Health Emergency	4,851,276.00
	Total Committed Fund Balance	4,851,276.00
	Assigned Fund Balance	
3910	Reserve for Operations	5,800,000.00
3925	Reserve for Future Healthcare Liabilities	453,746.00
3955	Thermal Remediation Fund	63,688.00
3970	Reserve for Equipment	726,018.00
3971	Reserve for Facility & Vehicle Replacement	2,659,312.00
	Total Assigned Fund Balance	9,702,764.00
	Unassigned Fund Balance	
3900	Fund Equity	(568,650.76)
3999	P&L Summary	(442,350.54)
	Total Unassigned Fund Balance	(1,011,001.30)
	Current YTD Net Income	
		(3,111,231.07)
	Total Current YTD Net Income	(3,111,231.07)
	Total Fund Balance	22,631,131.52
	Total Liabilities and Net Assets	28,350,147.32



The **General Fund Operational Cash Flow** graph outlines the District's working capital for the fiscal year July 1, 2022, to June 30, 2023. The beginning fund balance is $6.8 million and the ending fund balance is $5.8 million. Expenditure is approximately divided by 12 equal months, with some differences accounting for the seasonality of the program for example control products and seasonal employment which are greater in the mosquito breeding season. July expenditure is higher than average because of the prefunding lump sum of $0.3 million for CalPERS unfunded liability and the transfers to the capital reserves. The budget also accounts for prepayments. The revenue follows a different pattern, Riverside County distributes the property tax revenue in January and May with advancements in December and April. The *shaded area* represents the **Budgeted Fund Balance** which has a formula of (beginning) **Fund Balance** plus **Revenue** minus **Expenditure**. The *green line* represents the **Actual Fund Balance** and is graphed against the *shaded area* **Budgeted Fund Balance**. The *Three Year Average* Fund Balance is the orange dash line.

The graph shows $6.8 million **Fund Balance** plus total Revenue for July 1 to September 30, 2022, of $4,955 minus total Expenses of $4,463,698 is $2,341,257. Payroll expenses show a favorable variance of $129,070, this due to timing. Administrative expenses have a favorable variance of $64,087 while Operating expenses show a budget overage for the period of $92,600 reason is timing of pesticide deliveries and aerial applications performed in September. For planning purposes, the District is under budget by $100,553. As long as the green line stays out of the shaded area the District is within budget, as of September 30, 2022, the line is outside the shaded area.

	Coachella Valley Mosquito and Vector Control District Staff Report	October 11, 2022

Agenda Item: Informational Item

CalPERS Actuarial Valuation Reports – **David I'Anson, Administrative Finance Manager**

Overview:

Annually, CalPERS prepares an actuarial study for each CalPERS member's pension plan/pension pool. The study is as of June 30 for each fiscal year and is finalized and distributed to its members for the preceding fiscal year. In July 2022, CalPERS finalized the June 30, 2021, valuation report determining the minimum required employer contributions for fiscal year (FY) 2023-24. CalPERS offers pooled plans and non-pooled plans, employers with less than 100 active members usually join the pooled plans. There are two pooled plans Safety and Miscellaneous, the District is a member of the Miscellaneous pool. Within the Miscellaneous pool, there is a number of different Benefit Formulas, the District Benefit Formula for Classic, CalPERS members before January 2013 is ***2% at 60***, and the District Benefit Formula CalPERS members after January 2013, known as PEPRA (California Public Employees' Pension Reform Act) **2% at 62**.

Attached to this memo, are the June 30, 2021, valuation reports for Classic and PEPRA.

Common questions to ask:

- Is the District's plan in good shape?
- What are the District's required contributions?
- Where are the District's required contributions headed?
- How can the District manage our UAL in the future?

Is the District's plan in good shape?

Simple answer –YES. Page 6 of the valuation reports shows the plans funded status

June 30, 2021

	Classic		**PEPRA**
Present Value of Projected Benefits (PVB)	$25,317,796		$2,609,041
Entry Age of Accrued Liability (AL)	19,767,571		657,399
Plans Market Value of Assets (MVA)	19,922,569		698,325
Unfunded Accrued Liability (UAL)	(154,998)		(40,926)
Funded Ratio	100.8%		106.2%

The Funded Ratio is one indicator of the plan's health, the target ratio is 100%, as of June 30, 2021, the District's Classic Funded Ratio is **100.8%** and the PEPRA is **106.2%**. The reasons for the high rating are because of the FY2020-21 investment earnings of 21.3%, and Board intervention in the form of Additional Discretionary Payments (ADP), and the shortening of the amortization period. The impact on contributions is that the UAL annual payment for FY 2023-24 is zero.

What are the District's required contributions?

Employer Contribution is comprised of 2 components, Normal Cost Rate (% of Payroll) and Unfunded Accrued Liability (UAL) Amortization Payment (Dollar Payment).

FY 2023-24

	Classic		**PEPRA**
Employer Normal Cost Rate	10.66%		7.68%
Employer Amortization of Unfunded Accrued Liability	$0.00		$0.00

- FY 2023-24 rates reflect:
    - FY 2021-22 investment return of 21.3%
    - Change of discount rate from 7.0 to 6.8%
    - Changes in CalPERS demographic assumptions
    - Reflect zero UAL payment!!
- FY 2024-25 rates do not reflect:
    - FY 2021-22 investment return of -6.1%
    - FY 2021-22 $1million ADP

Where are the District's required contributions headed?

Classic

	Required Contribution	Projected Future Employer Contributions (Assumes 6.80% Return for Fiscal Year 2021-22 and Beyond)				
Fiscal Year	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
	Rate Plan 823 Results					
Normal Cost %	10.66%	10.7%	10.7%	10.7%	10.7%	10.7%
UAL Payment	$0	$0	$0	$0	$0	$0

PEPRA

	Required Contribution	Projected Future Employer Contributions (Assumes 6.80% Return for Fiscal Year 2021-22 and Beyond)				
Fiscal Year	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
	Rate Plan 27361 Results					
Normal Cost %	7.68%	7.7%	7.7%	7.7%	7.7%	7.7%
UAL Payment	$0	$0	$0	$0	$0	$0

Shorter term, the District is paying zero UAL for both Classic and PEPRA plans with the normal cost of 10.66 % and 7.68% respectively. For future years, the assumption is that CalPERS will achieve an investment rate of rate 6.8%, and in FY 2021-22 the actual rate was a rate of minus 6.1%. The effect of not achieving the desired investment rate will see the UAL rise again, however, the ADP of $ 1 million will slow the rise and hopefully cover the losses from that fiscal year.

How can the District manage our UAL in the Future?

- Fresh Start Alternatives
  - Pay off UAL more rapidly
  - Shorter amortization
- Additional Discretionary Payments (ADP)
- Past District management of UAL -
  - District paid ADP $600,000 in 2019-20
  - Fresh start shortens the amortization period from 20 years down to 5
  - Shortened period raised UAL payment from $190k to $357k
  - District paid ADP $1,000,000 in 2021-22

Summary

At least through fiscal year 2024-25, the District's CalPERS pension funding status will remain strong due to strong return on investments and due to the additional discretionary payments approved by the Board of Trustees.

The Normal Cost rate and the District's UAL beyond FY 2024-25 are not exactly known but will be shaped by the economy, the plans return on investments, and the decisions the Board of Trustees make in the near future to manage the UAL.

https://www.calpers.ca.gov/page/employers/actuarial-resources/public-agency-actuarial-valuation-reports

Strategic Business Plan Alignment:

Goal 6 FINANCE: Sustained and Transparent Finances that meet District Revenue Needs

OBJECTIVE 6.1: Ensure adequate revenues, cost control, affordability, and overall strong finances without rate shocks or major surprises by maintaining strong financial plans and acting on sound financial decisions.

Attachments:

- CalPERS Valuation Classic and PEPRA dated June 30, 2021
- Facts investment pension funding

California Public Employees' Retirement System
Actuarial Office
400 Q Street, Sacramento, CA 95811 | Phone: (916) 795-3000 | Fax: (916) 795-2744
888 CalPERS (or **888**-225-7377) | TTY: (877) 249-7442 | **www.calpers.ca.gov**

July 2022

Miscellaneous Plan of the Coachella Valley Mosquito and Vector Control District (CalPERS ID: 2347691176)
Annual Valuation Report as of June 30, 2021

Dear Employer,

Attached to this letter, you will find the June 30, 2021 actuarial valuation report for the rate plan noted above. **Provided in this report is the determination of the minimum required employer contributions for fiscal year (FY) 2023-24**. In addition, the report contains important information regarding the current financial status of the plan as well as projections and risk measures to aid in planning for the future.

Because this plan is in a risk pool, the following valuation report has been separated into two sections:

- Section 1 contains specific information for the plan including the development of the current and projected employer contributions, and
- Section 2 contains the Risk Pool Actuarial Valuation appropriate to the plan as of June 30, 2021.

Section 2 can be found on the CalPERS website (www.calpers.ca.gov). From the home page, go to *"Forms & Publications"* and select *"View All"*. In the search box, enter *"Risk Pool"* and from the results list download the Miscellaneous Risk Pool Actuarial Valuation Report for June 30, 2021.

Your June 30, 2021 actuarial valuation report contains important actuarial information about your pension plan at CalPERS. The plan actuary whose signature is in the Actuarial Certification is available to discuss.

Actuarial valuations are based on assumptions regarding future plan experience including investment return and payroll growth, eligibility for the types of benefits provided, and longevity among retirees. The CalPERS Board of Administration (board) adopts these assumptions after considering the advice of CalPERS actuarial and investment teams and other professionals. Each actuarial valuation reflects all prior differences between actual and assumed experience and adjusts the contribution requirements as needed. This valuation is based on an investment return assumption of 6.8%, which was adopted by the board in November 2021. Other assumptions used in this report are those recommended in the CalPERS Experience Study and Review of Actuarial Assumptions report from November 2021.

Required Contribution

The table below shows the minimum required employer contributions for FY 2023-24 along with estimates of the required contributions for FY 2024-25. Employee contributions other than cost sharing (whether paid by the employer or the employee) are in addition to the results shown below. **The required employer contributions in this report do not reflect any cost sharing arrangement between the agency and the employees.**

Fiscal Year	Employer Normal Cost Rate	Employer Amortization of Unfunded Accrued Liability
2023-24	10.66%	$0
Projected Results		
2024-25	*10.7%*	*$0*

The actual investment return for FY 2021-22 was not known at the time this report was prepared. The projections above assume the investment return for that year would be 6.8%. ***To the extent the actual investment return for FY 2021-22 differs from 6.8%, the actual contribution requirements for FY 2024-25 will differ from those shown above.*** For additional details regarding the assumptions and methods used for these projections, please refer to the "Projected Employer Contributions" in the "Highlights and Executive Summary" section. This section also contains projected required contributions through FY 2028-29.

Changes from Previous Year's Valuation

On July 12, 2021, CalPERS reported a preliminary 21.3% net return on investments for FY 2020-21. Since the return exceeded the 7.00% discount rate sufficiently, the CalPERS Funding Risk Mitigation policy allows CalPERS to use a portion of the investment gain to offset the cost of reducing the expected volatility of future investment returns. Based on the thresholds specified in the policy, the excess return of 14.3% prescribes a reduction in investment volatility that corresponds to a reduction in the discount rate of 0.20%, from 7.00% to 6.80%.

On November 17, 2021, the board adopted new actuarial assumptions based on the recommendations in the November 2021 CalPERS Experience Study and Review of Actuarial Assumptions. This study reviewed the retirement rates, termination rates, mortality rates, rates of salary increases, and inflation assumption for public agencies. These new assumptions are incorporated in this actuarial valuation and will impact the required contribution for FY 2023-24. In addition, the board adopted a new strategic asset allocation as part of its Asset Liability Management process. The new asset allocation along with the new capital market assumptions and economic assumptions support a discount rate of 6.80%. This includes a reduction in the price inflation assumption from 2.50% to 2.30%.

Besides the above noted changes, there may also be changes specific to the plan such as contract amendments and funding changes.

Further descriptions of general changes are included in the "Highlights and Executive Summary" section and in Appendix A of the Section 2 report, "Actuarial Methods and Assumptions."

Questions

We understand that you might have questions about these results, and the plan actuary whose signature is on the valuation report is available to discuss. If you have other questions, you may call the Customer Contact Center at (888)-CalPERS or (**888-225-7377**).

Sincerely,

SCOTT TERANDO, ASA, EA, MAAA, FCA, CFA
Chief Actuary

Actuarial Valuation
as of June 30, 2021

for the
Miscellaneous Plan
of the
Coachella Valley Mosquito and Vector Control District

(CalPERS ID: 2347691176)

Required Contributions
for Fiscal Year
July 1, 2023 - June 30, 2024

Table of Contents

Section 1

Plan Specific Information for the Miscellaneous Plan of the Coachella Valley Mosquito and Vector Control District

(CalPERS ID: 2347691176)
(Rate Plan ID: 823)

Table of Contents

Actuarial Certification

To the best of our knowledge, this report, comprising of Sections 1 and 2, is complete and accurate and contains sufficient information to disclose, fully and fairly, the funded condition of the Miscellaneous Plan of the Coachella Valley Mosquito and Vector Control District and satisfies the actuarial valuation requirements of Government Code section 7504. This valuation is based on the member and financial data as of June 30, 2021 provided by the various CalPERS databases and the benefits under this plan with CalPERS as of the date this report was produced. Section 1 of this report is based on the member and financial data for Coachella Valley Mosquito and Vector Control District, while Section 2 is based on the corresponding information for all agencies participating in the Miscellaneous Risk Pool to which the plan belongs.

As set forth in Section 2 of this report, the pool actuaries have certified that, in their opinion, the valuation of the Miscellaneous Risk Pool has been performed in accordance with generally accepted actuarial principles consistent with standards of practice prescribed by the Actuarial Standards Board, and that the assumptions and methods are internally consistent and reasonable for the risk pool as of the date of this valuation and as prescribed by the CalPERS Board of Administration according to provisions set forth in the California Public Employees' Retirement Law.

Having relied upon the information set forth in Section 2 of this report and based on the census and benefit provision information for the rate plan, it is my opinion as the plan actuary that the Unfunded Accrued Liability amortization bases as of June 30, 2021 and employer contribution as of July 1, 2023 have been properly and accurately determined in accordance with the principles and standards stated above.

The undersigned is an actuary who satisfies the Qualification Standards for Actuaries Issuing Statements of Actuarial Opinion in the United States with regard to pensions.

KURT SCHNEIDER, MPA, ASA, EA, MAAA
Supervising Pension Actuary, CalPERS

Highlights and Executive Summary

- **Introduction**
- **Purpose of Section 1**
- **Required Contributions**
- **Additional Discretionary Employer Contributions**
- **Plan's Funded Status**
- **Projected Employer Contributions**
- **Other Pooled Miscellaneous Risk Pool Rate Plans**
- **Cost**
- **Changes Since the Prior Year's Valuation**
- **Subsequent Events**

Introduction

This report presents the results of the June 30, 2021 actuarial valuation of the Miscellaneous Plan of the Coachella Valley Mosquito and Vector Control District of the California Public Employees' Retirement System (CalPERS). This actuarial valuation sets the required employer contributions for (FY) 2023-24.

Purpose of Section 1

This Section 1 report for the Miscellaneous Plan of the Coachella Valley Mosquito and Vector Control District of CalPERS was prepared by the plan actuary in order to:

- Set forth the assets and accrued liabilities of this plan as of June 30, 2021;
- Determine the minimum required employer contribution for this plan for the FY July 1, 2023 through June 30, 2024; and
- Provide actuarial information as of June 30, 2021 to the CalPERS Board of Administration (board) and other interested parties.

The pension funding information presented in this report should not be used in financial reports subject to Governmental Accounting Standards Board (GASB) Statement No. 68 for a Cost Sharing Employer Defined Benefit Pension Plan. A separate accounting valuation report for such purposes is available on the CalPERS website (www.calpers.ca.gov).

The measurements shown in this actuarial valuation may not be applicable for other purposes. The agency should contact the plan actuary before disseminating any portion of this report for any reason that is not explicitly described above.

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; changes in actuarial policies; changes in plan provisions or applicable law; and differences between the required contributions determined by the valuation and the actual contributions made by the agency.

Assessment and Disclosure of Risk

This report includes the following risk disclosures consistent with the recommendations of Actuarial Standards of Practice No. 51 and recommended by the California Actuarial Advisory Panel (CAAP) in the Model Disclosure Elements document:

- A "Scenario Test," projecting future results under different investment income returns.
- A "Sensitivity Analysis," showing the impact on current valuation results using alternative discount rates of 5.8% and 7.8%.
- A "Sensitivity Analysis," showing the impact on current valuation results assuming rates of mortality are 10% lower or 10% higher than our current post-retirement mortality assumptions adopted in 2021.
- Plan maturity measures indicating how sensitive a plan may be to the risks noted above.

Required Contributions

Required Employer Contributions	Fiscal Year 2023-24
Employer Normal Cost Rate	**10.66%**
Plus	
Required Payment on Amortization Bases[1]	**$0**
Paid either as	
1) Monthly Payment	**$0.00**
Or	
2) Annual Prepayment Option*	**$0**

The total minimum required employer contribution is the sum of the Plan's Employer Normal Cost Rate (expressed as a percentage of payroll and paid as payroll is reported) plus the Employer Unfunded Accrued Liability (UAL) Contribution Amount (billed monthly (1) or prepaid annually (2) in dollars).

** Only the UAL portion of the employer contribution can be prepaid **(which must be received in full no later than July 31)**.*

	Fiscal Year 2022-23	Fiscal Year 2023-24
Development of Normal Cost as a Percentage of Payroll		
Base Total Normal Cost for Formula	15.56%	17.03%
Surcharge for Class 1 Benefits[2]		
a) FAC 1	0.49%	0.56%
Phase out of Normal Cost Difference[3]	0.00%	0.00%
Plan's Total Normal Cost	16.05%	17.59%
Formula's Expected Employee Contribution Rate	6.93%	6.93%
Employer Normal Cost Rate	9.12%	10.66%

[1] The required payment on amortization bases does not take into account any additional discretionary payment made after April 29, 2022.

[2] Section 2 of this report contains a list of Class 1 benefits and corresponding surcharges for each benefit.

[3] The normal cost change is phased out over a five-year period in accordance with the CalPERS contribution allocation policy.

Additional Discretionary Employer Contributions

The minimum required employer contribution towards the Unfunded Accrued Liability (UAL) for this rate plan for the 2023-24 FY is $0. CalPERS allows agencies to make additional discretionary payments (ADPs) at any time and in any amount. These optional payments serve to reduce the UAL and future required contributions and can result in significant long-term savings. Agencies can also use ADPs to stabilize annual contributions as a fixed dollar amount, percent of payroll or percent of revenue.

Provided below are select ADP options for consideration. Making such an ADP during FY 2023-24 does not require an ADP be made in any future year, nor does it change the remaining amortization period of any portion of unfunded liability. For information on permanent changes to amortization periods, see the "Amortization Schedule and Alternatives" section of the report.

Agencies considering making an ADP should contact CalPERS for additional information.

Minimum Required Employer Contribution for Fiscal Year 2023-24

Estimated Normal Cost	Minimum UAL Payment	ADP	Total UAL Contribution	Estimated Total Contribution
$411,049	$0	$0	$0	$411,049

Alternative Fiscal Year 2023-24 Employer Contributions for Greater UAL Reduction

Funding Target	Estimated Normal Cost	Minimum UAL Payment	ADP[1]	Total UAL Contribution	Estimated Total Contribution
N/A	N/A	N/A	N/A	N/A	N/A

[1] The ADP amounts are assumed to be made in the middle of the fiscal year. A payment made earlier or later in the fiscal year would have to be less or more than the amount shown to have the same effect on the UAL amortization.

Note that the calculations above are based on the projected Unfunded Accrued Liability as of June 30, 2023 as determined in the June 30, 2021 actuarial valuation. New unfunded liabilities can emerge in future years due to assumption or method changes, changes in plan provisions, and actuarial experience different than assumed. Making an ADP illustrated above for the indicated number of years will not result in a plan that is exactly 100% funded in the indicated number of years. Valuation results will vary from one year to the next and can diverge significantly from projections over a period of several years.

Plan's Funded Status

	June 30, 2020	June 30, 2021
1. Present Value of Projected Benefits (PVB)	$21,672,000	$25,317,796
2. Entry Age Accrued Liability (AL)	17,598,763	19,767,571
3. Plan's Market Value of Assets (MVA)	15,451,636	19,922,569
4. Unfunded Accrued Liability (UAL) [(2) - (3)]	2,147,127	(154,998)
5. Funded Ratio [(3) / (2)]	87.8%	100.8%

The UAL and funded ratio are assessments of the need for future employer contributions based on the actuarial cost method used to fund the plan. The UAL is the present value of future employer contributions for service that has already been earned and is in addition to future normal cost contributions for active members. The funded ratio, on the other hand, is a relative measure of funded status that allows for comparison between plans of different sizes. For measures of funded status that are appropriate for assessing the sufficiency of plan assets to cover estimated termination liabilities, please see "Hypothetical Termination Liability" in the "Risk Analysis" section.

Projected Employer Contributions

The table below shows the required and projected employer contributions (before cost sharing) for the next six fiscal years. The projection assumes that all actuarial assumptions will be realized and that no further changes to assumptions, contributions, benefits, or funding will occur during the projection period. In particular, the investment return beginning with FY 2021-22 is assumed to be 6.80% per year, net of investment and administrative expenses. Actual contribution rates during this projection period could be significantly higher or lower than the projection shown below. Future contribution requirements may differ significantly from those shown below. The actual long-term cost of the plan will depend on the actual benefits and expenses paid and the actual investment experience of the fund.

	Required Contribution	**Projected Future Employer Contributions (Assumes 6.80% Return for Fiscal Year 2021-22 and Beyond)**				
Fiscal Year	**2023-24**	**2024-25**	**2025-26**	**2026-27**	**2027-28**	**2028-29**
	Rate Plan 823 Results					
Normal Cost %	10.66%	10.7%	10.7%	10.7%	10.7%	10.7%
UAL Payment	$0	$0	$0	$0	$0	$0

For some sources of UAL, the change in UAL is amortized using a 5-year ramp up. For more information, please see "Amortization of the Unfunded Actuarial Accrued Liability" under "Actuarial Methods" in Appendix A of the Section 2 Report. This method phases in the impact of the change in UAL over a 5-year period in order to reduce employer cost volatility from year to year. As a result of this methodology, dramatic changes in the required employer contributions in any one year are less likely. However, required contributions can change gradually and significantly over the next five years. In years when there is a large increase in UAL, the relatively small amortization payments during the ramp up period could result in a funded ratio that is projected to decrease initially while the contribution impact of the increase in the UAL is phased in.

For projected contributions under alternate investment return scenarios, please see the "Future Investment Return Scenarios" in the "Risk Analysis" section.

Our online pension plan projection tool, Pension Outlook, is available in the Employers section of the CalPERS website. Pension Outlook can help plan and budget pension costs under various scenarios.

Other Pooled Miscellaneous Risk Pool Rate Plans

All of the results presented in this Section 1 report, except those shown below, correspond to rate plan 823. In many cases, employers have additional rate plans within the same risk pool. For cost analysis and budgeting it is useful to consider contributions for these rate plans as a whole rather than individually. The estimated contribution amounts and rates for all of the employer's rate plans in the Miscellaneous Risk Pool are shown below and assume that the payroll for each rate plan will grow according to the overall payroll growth assumption of 2.80% per year for three years.

	Fiscal Year 2022-23	**Fiscal Year 2023-24**
Estimated Combined Employer Contributions for all Pooled Miscellaneous Rate Plans		
Projected Payroll for the Contribution Year	$4,734,118	$5,101,332
Estimated Employer Normal Cost	$417,703	$506,691
Required Payment on Amortization Bases	$378,293	$0
Estimated Total Employer Contributions	$795,996	$506,691
Estimated Total Employer Contribution Rate (illustrative only)	16.81%	9.93%

Cost

Actuarial Determination of Plan Cost

Contributions to fund the plan are comprised of two components:

- Normal Cost, expressed as a percentage of total active payroll
- Amortization of the Unfunded Accrued Liability (UAL), expressed as a dollar amount

For fiscal years prior to 2016-17, the Amortization of UAL component was expressed as a percentage of total active payroll. Starting with FY 2016-17, the Amortization of UAL component was expressed as a dollar amount and invoiced on a monthly basis. There continues to be an option to prepay this amount during July of each fiscal year.

The Normal Cost component is expressed as a percentage of active payroll with employer and employee contributions payable as part of the regular payroll reporting process.

The determination of both components requires complex actuarial calculations. The calculations are based on a set of actuarial assumptions which can be divided into two categories:

- Demographic assumptions (e.g., mortality rates, retirement rates, employment termination rates, disability rates)
- Economic assumptions (e.g., future investment earnings, inflation, salary growth rates)

These assumptions reflect CalPERS' best estimate of future experience of the plan and are long term in nature. We recognize that all assumptions will not be realized in any given year. For example, the investment earnings at CalPERS have averaged 6.9% over the 20 years ending June 30, 2021, yet individual fiscal year returns have ranged from -23.6% to +21.3%. In addition, CalPERS reviews all actuarial assumptions by conducting in-depth experience studies every four years, with the most recent experience study completed in 2021.

Changes Since the Prior Year's Valuation

Benefits

The standard actuarial practice at CalPERS is to recognize mandated legislative benefit changes in the first annual valuation following the effective date of the legislation. Voluntary benefit changes by plan amendment are generally included in the first valuation that is prepared after the amendment becomes effective, even if the valuation date is prior to the effective date of the amendment.

This valuation generally reflects plan changes by amendments effective before the date of the report. Please refer to the "Plan's Major Benefit Options" and Appendix B of the Section 2 Report for a summary of the plan provisions used in this valuation.

Actuarial Methods and Assumptions

On November 17, 2021, the board adopted new actuarial assumptions based on the recommendations in the 2021 CalPERS Experience Study and Review of Actuarial Assumptions. This study reviewed the retirement rates, termination rates, mortality rates, rates of salary increases, and inflation assumption for Public Agencies. These new assumptions are incorporated in this actuarial valuation and will impact the required contribution for FY 2023-24. In addition, the board adopted a new asset portfolio as part of its Asset Liability Management process. The new asset mix supports a 6.80% discount rate, which reflects a change in the price inflation assumption to 2.30%.

Subsequent Events

The contribution requirements determined in this actuarial valuation report are based on demographic and financial information as of June 30, 2021. Changes subsequent to that date are not reflected. Investment returns below the assumed rate of return may increase future required contributions while investment returns above the assumed rate of return may decrease future required contributions.

The projected employer contributions on Page 6 are calculated under the assumption that the discount rate remains at 6.8% going forward and that the realized rate of return on assets for FY 2021-22 is 6.8%.

This actuarial valuation report reflects statutory changes, regulatory changes and board actions through January 2022. Any subsequent changes or actions are not reflected.

Assets and Liabilities

- **Breakdown of Entry Age Accrued Liability**
- **Allocation of Plan's Share of Pool's Experience/Assumption Change**
- **Development of Plan's Share of Pool's Market Value of Assets**
- **Schedule of Plan's Amortization Bases**
- **Amortization Schedule and Alternatives**
- **Employer Contribution History**
- **Funding History**

Breakdown of Entry Age Accrued Liability

Active Members	$13,568,164
Transferred Members	390,757
Terminated Members	584,974
Members and Beneficiaries Receiving Payments	5,223,676
Total	$19,767,571

Allocation of Plan's Share of Pool's Experience/Assumption Change

It is the policy of CalPERS to ensure equity within the risk pools by allocating the pool's experience gains/losses and assumption changes in a manner that treats each employer equitably and maintains benefit security for the members of the System while minimizing substantial variations in employer contributions. The Pool's experience gains/losses and impact of assumption/method changes is allocated to the plan as follows:

1.	Plan's Accrued Liability	$19,767,571
2.	Projected UAL balance at 6/30/2021	1,966,556
3.	Pool's Accrued Liability[1]	20,794,529,023
4.	Sum of Pool's Individual Plan UAL Balances at 6/30/2021[1]	4,597,734,264
5.	Pool's 2020/21 Investment (Gain)/Loss[1]	(2,338,185,055)
6.	Pool's 2020/21 Non-Investment (Gain)/Loss[1]	(84,077,623)
7.	Plan's Share of Pool's Investment (Gain)/Loss: [(1) - (2)] ÷ [(3) - (4)] × (5)	(2,569,772)
8.	Plan's Share of Pool's Non-Investment (Gain)/Loss: (1) ÷ (3) × (6)	(79,925)
9.	Plan's New (Gain)/Loss as of 6/30/2021: (7) + (8)	(2,649,697)
10.	Increase in Pool's Accrued Liability due to Change in Assumptions[1]	60,407,898
11.	Plan's Share of Pool's Change in Assumptions: (1) ÷ (3) × (10)	57,425
12.	Increase in Pool's Accrued Liability due to Funding Risk Mitigation[1]	495,172,731
13.	Plan's Share of Pool's Change due to Funding Risk Mitigation: (1) ÷ (3) × (12)	470,718
14.	Offset due to Funding Risk Mitigation	(522,708)
15.	Plan's Net Investment (Gain): (7) – (14)	(2,047,064)

[1] Does not include plans that transferred to Pool on the valuation date.

Development of the Plan's Share of Pool's Market Value of Assets

16.	Plan's UAL: (2) + (9) + (11) + (13)	($154,998)
17.	Plan's Share of Pool's MVA: (1) - (16)	$19,922,569

Schedule of Plan's Amortization Bases

Note that there is a two-year lag between the valuation date and the start of the contribution fiscal year.

- The assets, liabilities, and funded status of the plan are measured as of the valuation date: June 30, 2021.
- The required employer contributions determined by the valuation are for the fiscal year beginning two years after the valuation date: FY 2023-24.

This two-year lag is necessary due to the amount of time needed to extract and test the membership and financial data, and the need to provide public agencies with their required employer contribution well in advance of the start of the fiscal year.

The Unfunded Accrued Liability (UAL) is used to determine the employer contribution and therefore must be rolled forward two years from the valuation date to the first day of the fiscal year for which the contribution is being determined. The UAL is rolled forward each year by subtracting the expected payment on the UAL for the fiscal year and adjusting for interest. The expected payment for the first fiscal year is determined by the actuarial valuation two years ago and the contribution for the second year is from the actuarial valuation one year ago. Additional discretionary payments are reflected in the Expected Payments column in the fiscal year they were made by the agency.

Reason for Base	Date Est.	Ramp Level 2023-24	Ramp Shape	Escala-tion Rate	Amort. Period	Balance 6/30/21	Expected Payment 2021-22	Balance 6/30/22	Expected Payment 2022-23	Balance 6/30/23	Minimum Required Payment 2023-24
Fresh Start	6/30/21				N/A	(154,998)	1,333,953	(1,544,099)	134,855	(1,788,462)	0
Total						**(154,998)**	**1,333,953**	**(1,544,099)**	**134,855**	**(1,788,462)**	**0**

The (gain)/loss bases are the plan's allocated share of the risk pool's (gain)/loss for the fiscal year as disclosed in "Allocation of Plan's Share of Pool's Experience/Assumption Change" earlier in this section. These (gain)/loss bases will be amortized in accordance with the CalPERS amortization policy in effect at the time the base was established.

Amortization Schedule and Alternatives

The amortization schedule on the previous page(s) shows the minimum contributions required according to the CalPERS amortization policy. Many agencies have expressed a desire for a more stable pattern of payments or have indicated interest in paying off the unfunded accrued liabilities more quickly than required. As such, we have provided alternative amortization schedules to help analyze the current amortization schedule and illustrate the potential savings of accelerating unfunded liability payments.

Shown on the following page are future year amortization payments based on 1) the current amortization schedule reflecting the individual bases and remaining periods shown on the previous page, and 2) alternative "fresh start" amortization schedules using two sample periods that would both result in interest savings relative to the current amortization schedule. To initiate a Fresh Start, please contact the plan actuary.

The Current Amortization Schedule typically contains both positive and negative bases. Positive bases result from plan changes, assumption changes, method changes or plan experience that increase unfunded liability. Negative bases result from plan changes, assumption changes, method changes, or plan experience that decrease unfunded liability. The combination of positive and negative bases within an amortization schedule can result in unusual or problematic circumstances in future years, such as:

- When a negative payment would be required on a positive unfunded actuarial liability; or
- When the payment would completely amortize the total unfunded liability in a very short time period, and results in a large change in the employer contribution requirement.

In any year when one of the above scenarios occurs, the actuary will consider corrective action such as replacing the existing unfunded liability bases with a single "fresh start" base and amortizing it over an appropriate period.

The Current Amortization Schedule on the following page may appear to show that, based on the current amortization bases, one of the above scenarios will occur at some point in the future. It is impossible to know today whether such a scenario will in fact arise since there will be additional bases added to the amortization schedule in each future year. Should such a scenario arise in any future year, the actuary will take appropriate action based on guidelines in the CalPERS amortization policy.

Amortization Schedule and Alternatives (continued)

			Alternate Schedules			
	Current Amortization Schedule		N/A Year Amortization		N/A Year Amortization	
Date	**Balance**	**Payment**	**Balance**	**Payment**	**Balance**	**Payment**
6/30/2023	N/A	N/A	N/A	N/A	N/A	N/A
6/30/2024						
6/30/2025						
6/30/2026						
6/30/2027						
6/30/2028						
6/30/2029						
6/30/2030						
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6/30/2045						
6/30/2046						
6/30/2047						
6/30/2048						
6/30/2049						
6/30/2050						
6/30/2051						
6/30/2052						
Total		**N/A**		**N/A**		**N/A**
Interest Paid		**N/A**		**N/A**		**N/A**
Estimated Savings				**N/A**		**N/A**

Employer Contribution History

The table below provides a recent history of the required employer contributions for the plan. The amounts are based on the actuarial valuation from two years prior and does not account for prepayments or benefit changes made during a fiscal year. Additional discretionary payments before July 1, 2019 or after June 30, 2021 are not included.

Fiscal Year	Employer Normal Cost	Unfunded Liability Payment ($)	Additional Discretionary Payments
2016 - 17	7.612%	$98,586	N/A
2017 - 18	7.653%	107,016	N/A
2018 - 19	8.099%	130,900	N/A
2019 - 20	8.563%	155,370	599,973
2020 - 21	9.281%	190,745	0
2021 - 22	9.13%	357,743	
2022 - 23	9.12%	372,627	
2023 - 24	10.66%	0	

Funding History

The table below shows the recent history of the actuarial accrued liability, share of the pool's market value of assets, unfunded accrued liability, funded ratio, and annual covered payroll.

Valuation Date	Accrued Liability (AL)	Share of Pool's Market Value of Assets (MVA)	Unfunded Accrued Liability (UAL)	Funded Ratio	Annual Covered Payroll
06/30/2012	$8,050,478	$7,133,618	$916,860	88.6%	$3,352,104
06/30/2013	8,815,842	8,148,562	667,280	92.4%	3,376,031
06/30/2014	9,925,588	9,570,294	355,294	96.4%	3,350,448
06/30/2015	11,201,136	10,276,782	924,354	91.7%	3,680,437
06/30/2016	12,597,315	10,813,206	1,784,109	85.8%	3,614,055
06/30/2017	13,987,693	12,370,418	1,617,275	88.4%	3,687,937
06/30/2018	15,880,954	13,761,152	2,119,802	86.7%	3,754,294
06/30/2019	17,308,313	14,976,732	2,331,581	86.5%	3,705,409
06/30/2020	17,598,763	15,451,636	2,147,127	87.8%	3,579,238
06/30/2021	19,767,571	19,922,569	(154,998)	100.8%	3,549,420

Risk Analysis

- **Future Investment Return Scenarios**
- **Discount Rate Sensitivity**
- **Mortality Rate Sensitivity**
- **Maturity Measures**
- **Maturity Measures History**
- **Hypothetical Termination Liability**

Future Investment Return Scenarios

Analysis using the investment return scenarios from the Asset Liability Management process completed in 2021 was performed to determine the effects of various future investment returns on required employer contributions. The projections below reflect the impact of the CalPERS Funding Risk Mitigation policy. The projections also assume that all other actuarial assumptions will be realized and that no further changes in assumptions, contributions, benefits, or funding will occur.

The first table shows projected contribution requirements if the fund were to earn either 3.0% or 10.8% annually. These alternate investment returns were chosen because 90% of long-term average returns are expected to fall between them over the 20-year period ending June 30, 2041.

Assumed Annual Return FY 2021-22 through 2040-41	Projected Employer Contributions				
	2024-25	2025-26	2026-27	2027-28	2028-29
3.0% (5th percentile)					
Normal Cost Rate	10.7%	10.7%	10.7%	10.7%	10.7%
UAL Contribution	$0	$0	$14,000	$49,000	$104,000
10.8% (95th percentile)					
Normal Cost Rate	10.9%	11.1%	11.3%	11.5%	11.8%
UAL Contribution	$0	$0	$0	$0	$0

Required contributions outside of this range are also possible. In particular, whereas it is unlikely that investment returns will average less than 3.0% or greater than 10.8% over a 20-year period, the likelihood of a single investment return less than 3.0% or greater than 10.8% in any given year is much greater. The following analysis illustrates the effect of an extreme, single year investment return.

The portfolio has an expected volatility (or standard deviation) of 12.0% per year. Accordingly, in any given year there is a 16% probability that the annual return will be -5.2% or less and a 2.5% probability that the annual return will be -17.2% or less. These returns represent one and two standard deviations below the expected return of 6.8%.

The following table shows the effect of a one or two standard deviation investment loss in FY 2021-22 on the FY 2024-25 contribution requirements. Note that a single-year investment gain or loss decreases or increases the required UAL contribution amount incrementally for each of the next five years, not just one, due to the 5-year ramp in the amortization policy. However, the contribution requirements beyond the first year are also impacted by investment returns beyond the first year. Historically, significant downturns in the market are often followed by higher than average returns. Such investment gains would offset the impact of these single year negative returns in years beyond FY 2024-25.

Assumed Annual Return for Fiscal Year 2021-22	Required Employer Contributions	Projected Employer Contributions
	2023-24	2024-25
(17.2)% (2 standard deviation loss)		
Normal Cost Rate	10.66%	10.7%
UAL Contribution	$0	$76,000
(5.2)% (1 standard deviation loss)		
Normal Cost Rate	10.66%	10.7%
UAL Contribution	$0	$18,000

- Without investment gains (returns higher than 6.8%) in year FY 2022-23 or later, projected contributions rates would continue to rise over the next four years due to the continued phase-in of the impact of the illustrated investment loss in FY 2021-22.
- The Pension Outlook Tool can be used to model projected contributions for these scenarios beyond FY 2024-25 as well as to model other investment return scenarios.

Discount Rate Sensitivity

The discount rate assumption is calculated as the sum of the assumed real rate of return and the assumed annual price inflation, currently 4.5% and 2.3%, respectively. Changing either the price inflation assumption or the real rate of return assumption will change the discount rate. The sensitivity of the valuation results to the discount rate assumption depends on which component of the discount rate is changed. Shown below are various valuation results as of June 30, 2021 assuming alternate discount rates by changing the two components independently. Results are shown using the current discount rate of 6.8% as well as alternate discount rates of 5.8% and 7.8%. The rates of 5.8% and 7.8% were selected since they illustrate the impact of a 1.0% increase or decrease to the 6.8% assumption.

Sensitivity to the Real Rate of Return Assumption

As of June 30, 2021	1% Lower Real Return Rate	Current Assumptions	1% Higher Real Return Rate
Discount Rate	**5.8%**	**6.8%**	**7.8%**
Inflation	2.3%	2.3%	2.3%
Real Rate of Return	**3.5%**	**4.5%**	**5.5%**
a) Total Normal Cost	22.01%	17.59%	14.20%
b) Accrued Liability	$23,138,487	$19,767,571	$17,023,859
c) Market Value of Assets	$19,922,569	$19,922,569	$19,922,569
d) Unfunded Liability/(Surplus) [(b) - (c)]	$3,215,918	($154,998)	($2,898,710)
e) Funded Ratio	86.1%	100.8%	117.0%

Sensitivity to the Price Inflation Assumption

As of June 30, 2021	1% Lower Inflation Rate	Current Assumptions	1% Higher Inflation Rate
Discount Rate	**5.8%**	**6.8%**	**7.8%**
Inflation	**1.3%**	**2.3%**	**3.3%**
Real Rate of Return	4.5%	4.5%	4.5%
a) Total Normal Cost	18.49%	17.59%	16.00%
b) Accrued Liability	$20,390,198	$19,767,571	$18,254,704
c) Market Value of Assets	$19,922,569	$19,922,569	$19,922,569
d) Unfunded Liability/(Surplus) [(b) - (c)]	$467,629	($154,998)	($1,667,865)
e) Funded Ratio	97.7%	100.8%	109.1%

Mortality Rate Sensitivity

The following table looks at the change in the June 30, 2021 plan costs and funded status under two different longevity scenarios, namely assuming post-retirement rates of mortality are 10% lower or 10% higher than our current mortality assumptions adopted in 2021. This type of analysis highlights the impact on the plan of improving or worsening mortality over the long-term.

As of June 30, 2021	10% Lower Mortality Rates	Current Assumptions	10% Higher Mortality Rates
a) Total Normal Cost	17.92%	17.59%	17.28%
b) Accrued Liability	$20,201,083	$19,767,571	$19,368,976
c) Market Value of Assets	$19,922,569	$19,922,569	$19,922,569
d) Unfunded Liability/(Surplus) [(b) - (c)]	$278,514	($154,998)	($553,593)
e) Funded Ratio	98.6%	100.8%	102.9%

Maturity Measures

As pension plans mature they become more sensitive to risks. Understanding plan maturity and how it affects the ability of a pension plan sponsor to tolerate risk is important in understanding how the pension plan is impacted by investment return volatility, other economic variables and changes in longevity or other demographic assumptions. Since it is the employer that bears the risk, it is appropriate to perform this analysis on a pension plan level considering all rate plans. The following measures are for one rate plan only.

One way to look at the maturity level of CalPERS and its plans is to look at the ratio of a plan's retiree liability to its total liability. A pension plan in its infancy will have a very low ratio of retiree liability to total liability. As the plan matures, the ratio starts increasing. A mature plan will often have a ratio above 60%-65%.

Ratio of Retiree Accrued Liability to Total Accrued Liability	**June 30, 2020**	**June 30, 2021**
1. Retired Accrued Liability	$4,376,746	$5,223,676
2. Total Accrued Liability	17,598,763	19,767,571
3. Ratio of Retiree AL to Total AL [(1) / (2)]	0.25	0.26

Another measure of maturity level of CalPERS and its plans is to look at the ratio of actives to retirees, also called the support ratio. A pension plan in its infancy will have a very high ratio of active to retired members. As the plan matures and members retire, the ratio declines. A mature plan will often have a ratio near or below one.

To calculate the support ratio for the rate plan, retirees and beneficiaries receiving a continuance are each counted as one, even though they may have only worked a portion of their careers as an active member of this rate plan. For this reason, the support ratio, while intuitive, may be less informative than the ratio of retiree liability to total accrued liability above. For comparison, the support ratio for all CalPERS public agency plans is 0.82 and is calculated consistently with how it is for the individual rate plan. Note that to calculate the support ratio for all public agency plans, a retiree with service from more than one CalPERS agency is counted as a retiree more than once.

Support Ratio	**June 30, 2020**	**June 30, 2021**
1. Number of Actives	43	42
2. Number of Retirees	23	25
3. Support Ratio [(1) / (2)]	1.87	1.68

Maturity Measures (Continued)

The actuarial calculations supplied in this communication are based on various assumptions about long-term demographic and economic behavior. Unless these assumptions (e.g., terminations, deaths, disabilities, retirements, salary growth, investment return) are exactly realized each year, there will be differences on a year-to-year basis. The year-to-year differences between actual experience and the assumptions are called actuarial gains and losses and serve to lower or raise required employer contributions from one year to the next. Therefore, employer contributions will inevitably fluctuate, especially due to the ups and downs of investment returns.

Asset Volatility Ratio

Shown in the table below is the asset volatility ratio (AVR), which is the ratio of market value of assets to payroll. Plans that have higher AVR experience more volatile employer contributions (as a percentage of payroll) due to investment return. For example, a plan with an asset-to-payroll ratio of 8 may experience twice the contribution volatility due to investment return volatility than a plan with an asset-to-payroll ratio of 4. It should be noted that this ratio is a measure of the current situation. It increases over time but generally tends to stabilize as the plan matures.

Liability Volatility Ratio

Also shown in the table below is the liability volatility ratio (LVR), which is the ratio of accrued liability to payroll. Plans that have a higher LVR experience more volatile employer contributions (as a percentage of payroll) due to changes in liability. For example, a plan with LVR ratio of 8 is expected to have twice the contribution volatility of a plan with LVR of 4. It should be noted that this ratio indicates a longer-term potential for contribution volatility, since the AVR, described above, will tend to move closer to the LVR as the funded ratio approaches 100%.

Contribution Volatility	June 30, 2020	June 30, 2021
1. Market Value of Assets	$15,451,636	$19,922,569
2. Payroll	3,579,238	3,549,420
3. Asset Volatility Ratio (AVR) [(1) / (2)]	4.3	5.6
4. Accrued Liability	$17,598,763	$19,767,571
5. Liability Volatility Ratio (LVR) [(4) / (2)]	4.9	5.6

Maturity Measures History

Valuation Date	Ratio of Retiree Accrued Liability to Total Accrued Liability	Support Ratio	Asset Volatility Ratio	Liability Volatility Ratio
06/30/2017	0.30	2.18	3.4	3.8
06/30/2018	0.29	2.04	3.7	4.2
06/30/2019	0.29	1.80	4.0	4.7
06/30/2020	0.25	1.87	4.3	4.9
06/30/2021	0.26	1.68	5.6	5.6

Hypothetical Termination Liability

The hypothetical termination liability is an estimate of the financial position of the plan had the contract with CalPERS been terminated as of June 30, 2021. The plan liability on a termination basis is calculated differently compared to the plan's ongoing funding liability. For the hypothetical termination liability calculation, both compensation and service are frozen as of the valuation date and no future pay increases or service accruals are assumed. This measure of funded status is not appropriate for assessing the need for future employer contributions in the case of an ongoing plan, that is, for an employer that continues to provide CalPERS retirement benefits to active employees.

A more conservative investment policy and asset allocation strategy was adopted by the board for the Terminated Agency Pool. The Terminated Agency Pool has limited funding sources since no future employer contributions will be made. Therefore, expected benefit payments are secured by risk-free assets and benefit security for members is increased while limiting the funding risk. However, this asset allocation has a lower expected rate of return than the PERF and consequently, a lower discount rate is assumed. The lower discount rate for the Terminated Agency Pool results in higher liabilities for terminated plans.

The effective termination discount rate will depend on actual market rates of return for risk-free securities on the date of termination. As market discount rates are variable, the table below shows a range for the hypothetical termination liability based on the lowest and highest interest rates observed during an approximate 19-month period from 12 months before the valuation date to seven months after.

Market Value of Assets (MVA)	Hypothetical Termination Liability[1,2] at 1.00%	Funded Ratio	Unfunded Termination Liability at 1.00%	Hypothetical Termination Liability[1,2] at 2.25%	Funded Ratio	Unfunded Termination Liability at 2.25%
$19,922,569	$44,735,914	44.5%	$24,813,345	$35,491,665	56.1%	$15,569,096

[1] The hypothetical liabilities calculated above include a 5% contingency load. The contingency load and other actuarial assumptions can be found in Appendix A.

[2] The discount rate used for termination valuations is a weighted average of the 10-year and 30-year U.S. Treasury yields where the weights are based on matching asset and liability durations as of the termination date. The discount rates used in the table are based on 20-year Treasury bonds, rounded to the nearest quarter percentage point, which is a good proxy for most plans. The 20-year Treasury yield was 2.00% on June 30, 2021, the valuation date.

In order to terminate the plan, first contact our Pension Contract Services unit to initiate a Resolution of Intent to Terminate. The completed Resolution will allow the plan actuary to provide a preliminary termination valuation with a more up-to-date estimate of the plan liabilities. Before beginning this process, please consult with the plan actuary.

Participant Data

The table below shows a summary of the plan's member data upon which this valuation is based:

	June 30, 2020	June 30, 2021
Active Members		
Counts	43	42
Average Attained Age	47.54	48.17
Average Entry Age to Rate Plan	32.40	32.14
Average Years of Credited Service	15.03	15.90
Average Annual Covered Pay	$83,238	$84,510
Annual Covered Payroll	$3,579,238	$3,549,420
Present Value of Future Payroll	$30,973,520	$36,987,780
Transferred Members	8	6
Separated Members	32	31
Retired Members and Beneficiaries		
Counts*	23	25
Average Annual Benefits*	$16,791	$17,989

Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one valuation group. This does not result in double counting of liabilities.

* Values include community property settlements.

List of Class 1 Benefit Provisions

This plan has the additional Class 1 Benefit Provisions:

- One Year Final Compensation (FAC 1)

Plan's Major Benefit Options

Shown below is a summary of the major optional benefits for which the agency has contracted. A description of principal standard and optional plan provisions is in Section 2.

	Benefit Group		
Member Category	Misc	Misc	
Demographics			
Actives	Yes	No	
Transfers/Separated	Yes	No	
Receiving	Yes	Yes	
Benefit Provision			
Benefit Formula	2% @ 60		
Social Security Coverage	Yes		
Full/Modified	Modified		
Employee Contribution Rate	7.00%		
Final Average Compensation Period	One Year		
Sick Leave Credit	Yes		
Non-Industrial Disability	Standard		
Industrial Disability	No		
Pre-Retirement Death Benefits			
Optional Settlement 2	Yes		
1959 Survivor Benefit Level	No		
Special	No		
Alternate (firefighters)	No		
Post-Retirement Death Benefits			
Lump Sum	$500	$500	
Survivor Allowance (PRSA)	No	No	
COLA	2%	2%	

Section 2

CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM

Risk Pool Actuarial Valuation Information

Section 2 may be found on the CalPERS website (**www.calpers.ca.gov**) in the Forms and Publications section

CalPERS

California Public Employees' Retirement System
Actuarial Office
400 Q Street, Sacramento, CA 95811 | Phone: (916) 795-3000 | Fax: (916) 795-2744
888 CalPERS (or **888**-225-7377) | TTY: (877) 249-7442 | **www.calpers.ca.gov**

July 2022

PEPRA Miscellaneous Plan of the Coachella Valley Mosquito and Vector Control District (CalPERS ID: 2347691176)
Annual Valuation Report as of June 30, 2021

Dear Employer,

Attached to this letter, you will find the June 30, 2021 actuarial valuation report for the rate plan noted above. **Provided in this report is the determination of the minimum required employer contributions for fiscal year (FY) 2023-24**. In addition, the report contains important information regarding the current financial status of the plan as well as projections and risk measures to aid in planning for the future.

Because this plan is in a risk pool, the following valuation report has been separated into two sections:

- Section 1 contains specific information for the plan including the development of the current and projected employer contributions, and
- Section 2 contains the Risk Pool Actuarial Valuation appropriate to the plan as of June 30, 2021.

Section 2 can be found on the CalPERS website (www.calpers.ca.gov). From the home page, go to *"Forms & Publications"* and select *"View All"*. In the search box, enter *"Risk Pool"* and from the results list download the Miscellaneous Risk Pool Actuarial Valuation Report for June 30, 2021.

Your June 30, 2021 actuarial valuation report contains important actuarial information about your pension plan at CalPERS. The plan actuary whose signature is in the Actuarial Certification is available to discuss.

Actuarial valuations are based on assumptions regarding future plan experience including investment return and payroll growth, eligibility for the types of benefits provided, and longevity among retirees. The CalPERS Board of Administration (board) adopts these assumptions after considering the advice of CalPERS actuarial and investment teams and other professionals. Each actuarial valuation reflects all prior differences between actual and assumed experience and adjusts the contribution requirements as needed. This valuation is based on an investment return assumption of 6.8%, which was adopted by the board in November 2021. Other assumptions used in this report are those recommended in the CalPERS Experience Study and Review of Actuarial Assumptions report from November 2021.

Required Contribution

The table below shows the minimum required employer contributions and the Employee PEPRA Rate for FY 2023-24 along with estimates of the required contributions for FY 2024-25. Employee contributions other than cost sharing (whether paid by the employer or the employee) are in addition to the results shown below. **The required employer contributions in this report do not reflect any cost sharing arrangement between the agency and the employees.**

Fiscal Year	Employer Normal Cost Rate	Employer Amortization of Unfunded Accrued Liability	PEPRA Member Rate
2023-24	7.68%	$0	7.75%
Projected Results			
2024-25	*7.7%*	*$0*	*TBD*

The actual investment return for FY 2021-22 was not known at the time this report was prepared. The projections above assume the investment return for that year would be 6.8%. ***To the extent the actual investment return for FY 2021-22 differs from 6.8%, the actual contribution requirements for FY 2024-25 will differ from those shown above.*** For additional details regarding the assumptions and methods used for these projections, please refer to the "Projected Employer Contributions" in the "Highlights and Executive Summary" section. This section also contains projected required contributions through FY 2028-29.

Changes from Previous Year's Valuation

On July 12, 2021, CalPERS reported a preliminary 21.3% net return on investments for FY 2020-21. Since the return exceeded the 7.00% discount rate sufficiently, the CalPERS Funding Risk Mitigation policy allows CalPERS to use a portion of the investment gain to offset the cost of reducing the expected volatility of future investment returns. Based on the thresholds specified in the policy, the excess return of 14.3% prescribes a reduction in investment volatility that corresponds to a reduction in the discount rate of 0.20%, from 7.00% to 6.80%.

On November 17, 2021, the board adopted new actuarial assumptions based on the recommendations in the November 2021 CalPERS Experience Study and Review of Actuarial Assumptions. This study reviewed the retirement rates, termination rates, mortality rates, rates of salary increases, and inflation assumption for public agencies. These new assumptions are incorporated in this actuarial valuation and will impact the required contribution for FY 2023-24. In addition, the board adopted a new strategic asset allocation as part of its Asset Liability Management process. The new asset allocation along with the new capital market assumptions and economic assumptions support a discount rate of 6.80%. This includes a reduction in the price inflation assumption from 2.50% to 2.30%.

Besides the above noted changes, there may also be changes specific to the plan such as contract amendments and funding changes.

Further descriptions of general changes are included in the "Highlights and Executive Summary" section and in Appendix A of the Section 2 report, "Actuarial Methods and Assumptions."

Questions

We understand that you might have questions about these results, and the plan actuary whose signature is on the valuation report is available to discuss. If you have other questions, you may call the Customer Contact Center at (888)-CalPERS or (**888-225-7377**).

Sincerely,

SCOTT TERANDO, ASA, EA, MAAA, FCA, CFA
Chief Actuary

Actuarial Valuation
as of June 30, 2021

for the
PEPRA Miscellaneous Plan
of the
Coachella Valley Mosquito and Vector Control District

(CalPERS ID: 2347691176)

Required Contributions
for Fiscal Year
July 1, 2023 - June 30, 2024

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Plan Specific Information for the PEPRA Miscellaneous Plan of the Coachella Valley Mosquito and Vector Control District

(CalPERS ID: 2347691176)
(Rate Plan ID: 27361)

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Actuarial Certification

To the best of our knowledge, this report, comprising of Sections 1 and 2, is complete and accurate and contains sufficient information to disclose, fully and fairly, the funded condition of the PEPRA Miscellaneous Plan of the Coachella Valley Mosquito and Vector Control District and satisfies the actuarial valuation requirements of Government Code section 7504. This valuation is based on the member and financial data as of June 30, 2021 provided by the various CalPERS databases and the benefits under this plan with CalPERS as of the date this report was produced. Section 1 of this report is based on the member and financial data for Coachella Valley Mosquito and Vector Control District, while Section 2 is based on the corresponding information for all agencies participating in the Miscellaneous Risk Pool to which the plan belongs.

As set forth in Section 2 of this report, the pool actuaries have certified that, in their opinion, the valuation of the Miscellaneous Risk Pool has been performed in accordance with generally accepted actuarial principles consistent with standards of practice prescribed by the Actuarial Standards Board, and that the assumptions and methods are internally consistent and reasonable for the risk pool as of the date of this valuation and as prescribed by the CalPERS Board of Administration according to provisions set forth in the California Public Employees' Retirement Law.

Having relied upon the information set forth in Section 2 of this report and based on the census and benefit provision information for the rate plan, it is my opinion as the plan actuary that the Unfunded Accrued Liability amortization bases as of June 30, 2021 and employer contribution as of July 1, 2023 have been properly and accurately determined in accordance with the principles and standards stated above.

The undersigned is an actuary who satisfies the Qualification Standards for Actuaries Issuing Statements of Actuarial Opinion in the United States with regard to pensions.

KURT SCHNEIDER, MPA, ASA, EA, MAAA
Supervising Pension Actuary, CalPERS

Highlights and Executive Summary

- **Introduction**
- **Purpose of Section 1**
- **Required Contributions**
- **Additional Discretionary Employer Contributions**
- **Plan's Funded Status**
- **Projected Employer Contributions**
- **Other Pooled Miscellaneous Risk Pool Rate Plans**
- **Cost**
- **Changes Since the Prior Year's Valuation**
- **Subsequent Events**

Introduction

This report presents the results of the June 30, 2021 actuarial valuation of the PEPRA Miscellaneous Plan of the Coachella Valley Mosquito and Vector Control District of the California Public Employees' Retirement System (CalPERS). This actuarial valuation sets the required employer contributions for (FY) 2023-24.

Purpose of Section 1

This Section 1 report for the PEPRA Miscellaneous Plan of the Coachella Valley Mosquito and Vector Control District of CalPERS was prepared by the plan actuary in order to:

- Set forth the assets and accrued liabilities of this plan as of June 30, 2021;
- Determine the minimum required employer contribution for this plan for the FY July 1, 2023 through June 30, 2024; and
- Provide actuarial information as of June 30, 2021 to the CalPERS Board of Administration (board) and other interested parties.

The pension funding information presented in this report should not be used in financial reports subject to Governmental Accounting Standards Board (GASB) Statement No. 68 for a Cost Sharing Employer Defined Benefit Pension Plan. A separate accounting valuation report for such purposes is available on the CalPERS website (www.calpers.ca.gov).

The measurements shown in this actuarial valuation may not be applicable for other purposes. The agency should contact the plan actuary before disseminating any portion of this report for any reason that is not explicitly described above.

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; changes in actuarial policies; changes in plan provisions or applicable law; and differences between the required contributions determined by the valuation and the actual contributions made by the agency.

Assessment and Disclosure of Risk

This report includes the following risk disclosures consistent with the recommendations of Actuarial Standards of Practice No. 51 and recommended by the California Actuarial Advisory Panel (CAAP) in the Model Disclosure Elements document:

- A "Scenario Test," projecting future results under different investment income returns.
- A "Sensitivity Analysis," showing the impact on current valuation results using alternative discount rates of 5.8% and 7.8%.
- A "Sensitivity Analysis," showing the impact on current valuation results assuming rates of mortality are 10% lower or 10% higher than our current post-retirement mortality assumptions adopted in 2021.
- Plan maturity measures indicating how sensitive a plan may be to the risks noted above.

Required Contributions

Required Employer Contributions	Fiscal Year 2023-24
Employer Normal Cost Rate	**7.68%**
Plus	
Required Payment on Amortization Bases[1]	**$0**
Paid either as	
1) Monthly Payment	**$0.00**
Or	
2) Annual Prepayment Option*	**$0**
Required PEPRA Member Contribution Rate	**7.75%**

The total minimum required employer contribution is the sum of the Plan's Employer Normal Cost Rate (expressed as a percentage of payroll and paid as payroll is reported) plus the Employer Unfunded Accrued Liability (UAL) Contribution Amount (billed monthly (1) or prepaid annually (2) in dollars).

** Only the UAL portion of the employer contribution can be prepaid **(which must be received in full no later than July 31)**.*

For additional detail regarding the determination of the required PEPRA member contribution rate see section on PEPRA Member Contribution Rates.

	Fiscal Year 2022-23	Fiscal Year 2023-24
Development of Normal Cost as a Percentage of Payroll		
Base Total Normal Cost for Formula	14.22%	15.43%
Surcharge for Class 1 Benefits[2]		
None	0.00%	0.00%
Phase out of Normal Cost Difference[3]	0.00%	0.00%
Plan's Total Normal Cost	14.22%	15.43%
Plan's Employee Contribution Rate	6.75%	7.75%
Employer Normal Cost Rate	7.47%	7.68%

1 The required payment on amortization bases does not take into account any additional discretionary payment made after April 29, 2022.

2 Section 2 of this report contains a list of Class 1 benefits and corresponding surcharges for each benefit.

3 The normal cost change is phased out over a five-year period in accordance with the CalPERS contribution allocation policy.

Additional Discretionary Employer Contributions

The minimum required employer contribution towards the Unfunded Accrued Liability (UAL) for this rate plan for the 2023-24 FY is $0. CalPERS allows agencies to make additional discretionary payments (ADPs) at any time and in any amount. These optional payments serve to reduce the UAL and future required contributions and can result in significant long-term savings. Agencies can also use ADPs to stabilize annual contributions as a fixed dollar amount, percent of payroll or percent of revenue.

Provided below are select ADP options for consideration. Making such an ADP during FY 2023-24 does not require an ADP be made in any future year, nor does it change the remaining amortization period of any portion of unfunded liability. For information on permanent changes to amortization periods, see the "Amortization Schedule and Alternatives" section of the report.

Agencies considering making an ADP should contact CalPERS for additional information.

Minimum Required Employer Contribution for Fiscal Year 2023-24

Estimated Normal Cost	Minimum UAL Payment	ADP	Total UAL Contribution	Estimated Total Contribution
$95,642	$0	$0	$0	$95,642

Alternative Fiscal Year 2023-24 Employer Contributions for Greater UAL Reduction

Funding Target	Estimated Normal Cost	Minimum UAL Payment	ADP[1]	Total UAL Contribution	Estimated Total Contribution
N/A	N/A	N/A	N/A	N/A	N/A

[1] The ADP amounts are assumed to be made in the middle of the fiscal year. A payment made earlier or later in the fiscal year would have to be less or more than the amount shown to have the same effect on the UAL amortization.

Note that the calculations above are based on the projected Unfunded Accrued Liability as of June 30, 2023 as determined in the June 30, 2021 actuarial valuation. New unfunded liabilities can emerge in future years due to assumption or method changes, changes in plan provisions, and actuarial experience different than assumed. Making an ADP illustrated above for the indicated number of years will not result in a plan that is exactly 100% funded in the indicated number of years. Valuation results will vary from one year to the next and can diverge significantly from projections over a period of several years.

Plan's Funded Status

	June 30, 2020	June 30, 2021
1. Present Value of Projected Benefits (PVB)	$1,586,095	$2,609,041
2. Entry Age Accrued Liability (AL)	443,152	657,399
3. Plan's Market Value of Assets (MVA)	406,213	698,325
4. Unfunded Accrued Liability (UAL) [(2) - (3)]	36,939	(40,926)
5. Funded Ratio [(3) / (2)]	91.7%	106.2%

The UAL and funded ratio are assessments of the need for future employer contributions based on the actuarial cost method used to fund the plan. The UAL is the present value of future employer contributions for service that has already been earned and is in addition to future normal cost contributions for active members. The funded ratio, on the other hand, is a relative measure of funded status that allows for comparison between plans of different sizes. For measures of funded status that are appropriate for assessing the sufficiency of plan assets to cover estimated termination liabilities, please see "Hypothetical Termination Liability" in the "Risk Analysis" section.

Projected Employer Contributions

The table below shows the required and projected employer contributions (before cost sharing) for the next six fiscal years. The projection assumes that all actuarial assumptions will be realized and that no further changes to assumptions, contributions, benefits, or funding will occur during the projection period. In particular, the investment return beginning with FY 2021-22 is assumed to be 6.80% per year, net of investment and administrative expenses. Actual contribution rates during this projection period could be significantly higher or lower than the projection shown below. Future contribution requirements may differ significantly from those shown below. The actual long-term cost of the plan will depend on the actual benefits and expenses paid and the actual investment experience of the fund.

	Required Contribution	Projected Future Employer Contributions (Assumes 6.80% Return for Fiscal Year 2021-22 and Beyond)				
Fiscal Year	**2023-24**	**2024-25**	**2025-26**	**2026-27**	**2027-28**	**2028-29**
	Rate Plan 27361 Results					
Normal Cost %	7.68%	7.7%	7.7%	7.7%	7.7%	7.7%
UAL Payment	$0	$0	$0	$0	$0	$0

For some sources of UAL, the change in UAL is amortized using a 5-year ramp up. For more information, please see "Amortization of the Unfunded Actuarial Accrued Liability" under "Actuarial Methods" in Appendix A of the Section 2 Report. This method phases in the impact of the change in UAL over a 5-year period in order to reduce employer cost volatility from year to year. As a result of this methodology, dramatic changes in the required employer contributions in any one year are less likely. However, required contributions can change gradually and significantly over the next five years. In years when there is a large increase in UAL, the relatively small amortization payments during the ramp up period could result in a funded ratio that is projected to decrease initially while the contribution impact of the increase in the UAL is phased in.

For projected contributions under alternate investment return scenarios, please see the "Future Investment Return Scenarios" in the "Risk Analysis" section.

Our online pension plan projection tool, Pension Outlook, is available in the Employers section of the CalPERS website. Pension Outlook can help plan and budget pension costs under various scenarios.

Other Pooled Miscellaneous Risk Pool Rate Plans

All of the results presented in this Section 1 report, except those shown below, correspond to rate plan 27361. In many cases, employers have additional rate plans within the same risk pool. For cost analysis and budgeting it is useful to consider contributions for these rate plans as a whole rather than individually. The estimated contribution amounts and rates for all of the employer's rate plans in the Miscellaneous Risk Pool are shown below and assume that the payroll for each rate plan will grow according to the overall payroll growth assumption of 2.80% per year for three years.

	Fiscal Year 2022-23	Fiscal Year 2023-24
Estimated Combined Employer Contributions for all Pooled Miscellaneous Rate Plans		
Projected Payroll for the Contribution Year	$4,734,118	$5,101,332
Estimated Employer Normal Cost	$417,703	$506,691
Required Payment on Amortization Bases	$378,293	$0
Estimated Total Employer Contributions	$795,996	$506,691
Estimated Total Employer Contribution Rate (illustrative only)	16.81%	9.93%

Cost

Actuarial Determination of Plan Cost

Contributions to fund the plan are comprised of two components:

- Normal Cost, expressed as a percentage of total active payroll
- Amortization of the Unfunded Accrued Liability (UAL), expressed as a dollar amount

For fiscal years prior to 2016-17, the Amortization of UAL component was expressed as a percentage of total active payroll. Starting with FY 2016-17, the Amortization of UAL component was expressed as a dollar amount and invoiced on a monthly basis. There continues to be an option to prepay this amount during July of each fiscal year.

The Normal Cost component is expressed as a percentage of active payroll with employer and employee contributions payable as part of the regular payroll reporting process.

The determination of both components requires complex actuarial calculations. The calculations are based on a set of actuarial assumptions which can be divided into two categories:

- Demographic assumptions (e.g., mortality rates, retirement rates, employment termination rates, disability rates)
- Economic assumptions (e.g., future investment earnings, inflation, salary growth rates)

These assumptions reflect CalPERS' best estimate of future experience of the plan and are long term in nature. We recognize that all assumptions will not be realized in any given year. For example, the investment earnings at CalPERS have averaged 6.9% over the 20 years ending June 30, 2021, yet individual fiscal year returns have ranged from -23.6% to +21.3%. In addition, CalPERS reviews all actuarial assumptions by conducting in-depth experience studies every four years, with the most recent experience study completed in 2021.

Changes Since the Prior Year's Valuation

Benefits

The standard actuarial practice at CalPERS is to recognize mandated legislative benefit changes in the first annual valuation following the effective date of the legislation. Voluntary benefit changes by plan amendment are generally included in the first valuation that is prepared after the amendment becomes effective, even if the valuation date is prior to the effective date of the amendment.

This valuation generally reflects plan changes by amendments effective before the date of the report. Please refer to the "Plan's Major Benefit Options" and Appendix B of the Section 2 Report for a summary of the plan provisions used in this valuation.

Actuarial Methods and Assumptions

On November 17, 2021, the board adopted new actuarial assumptions based on the recommendations in the 2021 CalPERS Experience Study and Review of Actuarial Assumptions. This study reviewed the retirement rates, termination rates, mortality rates, rates of salary increases, and inflation assumption for Public Agencies. These new assumptions are incorporated in this actuarial valuation and will impact the required contribution for FY 2023-24. In addition, the board adopted a new asset portfolio as part of its Asset Liability Management process. The new asset mix supports a 6.80% discount rate, which reflects a change in the price inflation assumption to 2.30%.

Subsequent Events

The contribution requirements determined in this actuarial valuation report are based on demographic and financial information as of June 30, 2021. Changes subsequent to that date are not reflected. Investment returns below the assumed rate of return may increase future required contributions while investment returns above the assumed rate of return may decrease future required contributions.

The projected employer contributions on Page 6 are calculated under the assumption that the discount rate remains at 6.8% going forward and that the realized rate of return on assets for FY 2021-22 is 6.8%.

This actuarial valuation report reflects statutory changes, regulatory changes and board actions through January 2022. Any subsequent changes or actions are not reflected.

Assets and Liabilities

- **Breakdown of Entry Age Accrued Liability**
- **Allocation of Plan's Share of Pool's Experience/Assumption Change**
- **Development of Plan's Share of Pool's Market Value of Assets**
- **Schedule of Plan's Amortization Bases**
- **Amortization Schedule and Alternatives**
- **Employer Contribution History**
- **Funding History**

Breakdown of Entry Age Accrued Liability

Active Members	$546,269
Transferred Members	65,438
Terminated Members	45,692
Members and Beneficiaries Receiving Payments	0
Total	$657,399

Allocation of Plan's Share of Pool's Experience/Assumption Change

It is the policy of CalPERS to ensure equity within the risk pools by allocating the pool's experience gains/losses and assumption changes in a manner that treats each employer equitably and maintains benefit security for the members of the System while minimizing substantial variations in employer contributions. The Pool's experience gains/losses and impact of assumption/method changes is allocated to the plan as follows:

1.	Plan's Accrued Liability	$657,399
2.	Projected UAL balance at 6/30/2021	34,142
3.	Pool's Accrued Liability[1]	20,794,529,023
4.	Sum of Pool's Individual Plan UAL Balances at 6/30/2021[1]	4,597,734,264
5.	Pool's 2020/21 Investment (Gain)/Loss[1]	(2,338,185,055)
6.	Pool's 2020/21 Non-Investment (Gain)/Loss[1]	(84,077,623)
7.	Plan's Share of Pool's Investment (Gain)/Loss: [(1) - (2)] ÷ [(3) - (4)] × (5)	(89,974)
8.	Plan's Share of Pool's Non-Investment (Gain)/Loss: (1) ÷ (3) × (6)	(2,658)
9.	Plan's New (Gain)/Loss as of 6/30/2021: (7) + (8)	(92,632)
10.	Increase in Pool's Accrued Liability due to Change in Assumptions[1]	60,407,898
11.	Plan's Share of Pool's Change in Assumptions: (1) ÷ (3) × (10)	1,910
12.	Increase in Pool's Accrued Liability due to Funding Risk Mitigation[1]	495,172,731
13.	Plan's Share of Pool's Change due to Funding Risk Mitigation: (1) ÷ (3) × (12)	15,654
14.	Offset due to Funding Risk Mitigation	(32,445)
15.	Plan's Net Investment (Gain): (7) – (14)	(57,529)

[1] Does not include plans that transferred to Pool on the valuation date.

Development of the Plan's Share of Pool's Market Value of Assets

16.	Plan's UAL: (2) + (9) + (11) + (13)	($40,926)
17.	Plan's Share of Pool's MVA: (1) - (16)	$698,325

Schedule of Plan's Amortization Bases

Note that there is a two-year lag between the valuation date and the start of the contribution fiscal year.

- The assets, liabilities, and funded status of the plan are measured as of the valuation date: June 30, 2021.
- The required employer contributions determined by the valuation are for the fiscal year beginning two years after the valuation date: FY 2023-24.

This two-year lag is necessary due to the amount of time needed to extract and test the membership and financial data, and the need to provide public agencies with their required employer contribution well in advance of the start of the fiscal year.

The Unfunded Accrued Liability (UAL) is used to determine the employer contribution and therefore must be rolled forward two years from the valuation date to the first day of the fiscal year for which the contribution is being determined. The UAL is rolled forward each year by subtracting the expected payment on the UAL for the fiscal year and adjusting for interest. The expected payment for the first fiscal year is determined by the actuarial valuation two years ago and the contribution for the second year is from the actuarial valuation one year ago. Additional discretionary payments are reflected in the Expected Payments column in the fiscal year they were made by the agency.

Reason for Base	Date Est.	Ramp Level 2023-24	Ramp Shape	Escala-tion Rate	Amort. Period	Balance 6/30/21	Expected Payment 2021-22	Balance 6/30/22	Expected Payment 2022-23	Balance 6/30/23	Minimum Required Payment 2023-24
Fresh Start	6/30/21				N/A	(40,926)	(12,264)	(31,035)	(12,370)	(20,362)	0
Total						**(40,926)**	**(12,264)**	**(31,035)**	**(12,370)**	**(20,362)**	**0**

The (gain)/loss bases are the plan's allocated share of the risk pool's (gain)/loss for the fiscal year as disclosed in "Allocation of Plan's Share of Pool's Experience/Assumption Change" earlier in this section. These (gain)/loss bases will be amortized in accordance with the CalPERS amortization policy in effect at the time the base was established.

Amortization Schedule and Alternatives

The amortization schedule on the previous page(s) shows the minimum contributions required according to the CalPERS amortization policy. Many agencies have expressed a desire for a more stable pattern of payments or have indicated interest in paying off the unfunded accrued liabilities more quickly than required. As such, we have provided alternative amortization schedules to help analyze the current amortization schedule and illustrate the potential savings of accelerating unfunded liability payments.

Shown on the following page are future year amortization payments based on 1) the current amortization schedule reflecting the individual bases and remaining periods shown on the previous page, and 2) alternative "fresh start" amortization schedules using two sample periods that would both result in interest savings relative to the current amortization schedule. To initiate a Fresh Start, please contact the plan actuary.

The Current Amortization Schedule typically contains both positive and negative bases. Positive bases result from plan changes, assumption changes, method changes or plan experience that increase unfunded liability. Negative bases result from plan changes, assumption changes, method changes, or plan experience that decrease unfunded liability. The combination of positive and negative bases within an amortization schedule can result in unusual or problematic circumstances in future years, such as:

- When a negative payment would be required on a positive unfunded actuarial liability; or
- When the payment would completely amortize the total unfunded liability in a very short time period, and results in a large change in the employer contribution requirement.

In any year when one of the above scenarios occurs, the actuary will consider corrective action such as replacing the existing unfunded liability bases with a single "fresh start" base and amortizing it over an appropriate period.

The Current Amortization Schedule on the following page may appear to show that, based on the current amortization bases, one of the above scenarios will occur at some point in the future. It is impossible to know today whether such a scenario will in fact arise since there will be additional bases added to the amortization schedule in each future year. Should such a scenario arise in any future year, the actuary will take appropriate action based on guidelines in the CalPERS amortization policy.

Amortization Schedule and Alternatives (continued)

			Alternate Schedules			
	Current Amortization Schedule		N/A Year Amortization		N/A Year Amortization	
Date	Balance	Payment	Balance	Payment	Balance	Payment
6/30/2023	N/A	N/A	N/A	N/A	N/A	N/A
6/30/2024						
6/30/2025						
6/30/2026						
6/30/2027						
6/30/2028						
6/30/2029						
6/30/2030						
6/30/2031						
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6/30/2044						
6/30/2045						
6/30/2046						
6/30/2047						
6/30/2048						
6/30/2049						
6/30/2050						
6/30/2051						
6/30/2052						
Total		**N/A**		**N/A**		**N/A**
Interest Paid		**N/A**		**N/A**		**N/A**
Estimated Savings				**N/A**		**N/A**

Employer Contribution History

The table below provides a recent history of the required employer contributions for the plan. The amounts are based on the actuarial valuation from two years prior and does not account for prepayments or benefit changes made during a fiscal year. Additional discretionary payments before July 1, 2019 or after June 30, 2021 are not included.

Fiscal Year	Employer Normal Cost	Unfunded Liability Payment ($)	Additional Discretionary Payments
2016 - 17	6.555%	$15	N/A
2017 - 18	6.533%	44	N/A
2018 - 19	6.842%	1,668	N/A
2019 - 20	6.985%	2,365	0
2020 - 21	7.732%	5,203	0
2021 - 22	7.59%	5,281	
2022 - 23	7.47%	5,666	
2023 - 24	7.68%	0	

Funding History

The table below shows the recent history of the actuarial accrued liability, share of the pool's market value of assets, unfunded accrued liability, funded ratio, and annual covered payroll.

Valuation Date	Accrued Liability (AL)	Share of Pool's Market Value of Assets (MVA)	Unfunded Accrued Liability (UAL)	Funded Ratio	Annual Covered Payroll
06/30/2014	$2,835	$2,961	($126)	104.5%	$79,331
06/30/2015	16,634	15,574	1,060	93.6%	141,907
06/30/2016	44,011	39,291	4,720	89.3%	209,772
06/30/2017	96,552	92,230	4,322	95.5%	385,847
06/30/2018	181,285	167,681	13,604	92.5%	531,433
06/30/2019	303,894	281,314	22,580	92.6%	644,910
06/30/2020	443,152	406,213	36,939	91.7%	784,851
06/30/2021	657,399	698,325	(40,926)	106.2%	1,146,323

Risk Analysis

- **Future Investment Return Scenarios**
- **Discount Rate Sensitivity**
- **Mortality Rate Sensitivity**
- **Maturity Measures**
- **Maturity Measures History**
- **Hypothetical Termination Liability**

Future Investment Return Scenarios

Analysis using the investment return scenarios from the Asset Liability Management process completed in 2021 was performed to determine the effects of various future investment returns on required employer contributions. The projections below reflect the impact of the CalPERS Funding Risk Mitigation policy. The projections also assume that all other actuarial assumptions will be realized and that no further changes in assumptions, contributions, benefits, or funding will occur.

The first table shows projected contribution requirements if the fund were to earn either 3.0% or 10.8% annually. These alternate investment returns were chosen because 90% of long-term average returns are expected to fall between them over the 20-year period ending June 30, 2041.

Assumed Annual Return FY 2021-22 through 2040-41	Projected Employer Contributions				
	2024-25	2025-26	2026-27	2027-28	2028-29
3.0% (5th percentile)					
Normal Cost Rate	7.7%	7.7%	7.7%	7.7%	7.7%
UAL Contribution	$190	$1,000	$2,600	$4,800	$7,800
10.8% (95th percentile)					
Normal Cost Rate	7.9%	8.1%	8.3%	8.5%	8.7%
UAL Contribution	$0	$0	$0	$0	$0

Required contributions outside of this range are also possible. In particular, whereas it is unlikely that investment returns will average less than 3.0% or greater than 10.8% over a 20-year period, the likelihood of a single investment return less than 3.0% or greater than 10.8% in any given year is much greater. The following analysis illustrates the effect of an extreme, single year investment return.

The portfolio has an expected volatility (or standard deviation) of 12.0% per year. Accordingly, in any given year there is a 16% probability that the annual return will be -5.2% or less and a 2.5% probability that the annual return will be -17.2% or less. These returns represent one and two standard deviations below the expected return of 6.8%.

The following table shows the effect of a one or two standard deviation investment loss in FY 2021-22 on the FY 2024-25 contribution requirements. Note that a single-year investment gain or loss decreases or increases the required UAL contribution amount incrementally for each of the next five years, not just one, due to the 5-year ramp in the amortization policy. However, the contribution requirements beyond the first year are also impacted by investment returns beyond the first year. Historically, significant downturns in the market are often followed by higher than average returns. Such investment gains would offset the impact of these single year negative returns in years beyond FY 2024-25.

Assumed Annual Return for Fiscal Year 2021-22	Required Employer Contributions	Projected Employer Contributions
	2023-24	2024-25
(17.2)% (2 standard deviation loss)		
Normal Cost Rate	7.68%	7.7%
UAL Contribution	$0	$3,700
(5.2)% (1 standard deviation loss)		
Normal Cost Rate	7.68%	7.7%
UAL Contribution	$0	$1,600

- Without investment gains (returns higher than 6.8%) in year FY 2022-23 or later, projected contributions rates would continue to rise over the next four years due to the continued phase-in of the impact of the illustrated investment loss in FY 2021-22.
- The Pension Outlook Tool can be used to model projected contributions for these scenarios beyond FY 2024-25 as well as to model other investment return scenarios.

Discount Rate Sensitivity

The discount rate assumption is calculated as the sum of the assumed real rate of return and the assumed annual price inflation, currently 4.5% and 2.3%, respectively. Changing either the price inflation assumption or the real rate of return assumption will change the discount rate. The sensitivity of the valuation results to the discount rate assumption depends on which component of the discount rate is changed. Shown below are various valuation results as of June 30, 2021 assuming alternate discount rates by changing the two components independently. Results are shown using the current discount rate of 6.8% as well as alternate discount rates of 5.8% and 7.8%. The rates of 5.8% and 7.8% were selected since they illustrate the impact of a 1.0% increase or decrease to the 6.8% assumption.

Sensitivity to the Real Rate of Return Assumption

As of June 30, 2021	1% Lower Real Return Rate	Current Assumptions	1% Higher Real Return Rate
Discount Rate	**5.8%**	**6.8%**	**7.8%**
Inflation	2.3%	2.3%	2.3%
Real Rate of Return	**3.5%**	**4.5%**	**5.5%**
a) Total Normal Cost	19.32%	15.43%	12.47%
b) Accrued Liability	$857,491	$657,399	$507,197
c) Market Value of Assets	$698,325	$698,325	$698,325
d) Unfunded Liability/(Surplus) [(b) - (c)]	$159,166	($40,926)	($191,128)
e) Funded Ratio	81.4%	106.2%	137.7%

Sensitivity to the Price Inflation Assumption

As of June 30, 2021	1% Lower Inflation Rate	Current Assumptions	1% Higher Inflation Rate
Discount Rate	**5.8%**	**6.8%**	**7.8%**
Inflation	**1.3%**	**2.3%**	**3.3%**
Real Rate of Return	4.5%	4.5%	4.5%
a) Total Normal Cost	16.27%	15.43%	14.03%
b) Accrued Liability	$700,441	$657,399	$587,837
c) Market Value of Assets	$698,325	$698,325	$698,325
d) Unfunded Liability/(Surplus) [(b) - (c)]	$2,116	($40,926)	($110,488)
e) Funded Ratio	99.7%	106.2%	118.8%

Mortality Rate Sensitivity

The following table looks at the change in the June 30, 2021 plan costs and funded status under two different longevity scenarios, namely assuming post-retirement rates of mortality are 10% lower or 10% higher than our current mortality assumptions adopted in 2021. This type of analysis highlights the impact on the plan of improving or worsening mortality over the long-term.

As of June 30, 2021	10% Lower Mortality Rates	Current Assumptions	10% Higher Mortality Rates
a) Total Normal Cost	15.71%	15.43%	15.18%
b) Accrued Liability	$669,200	$657,399	$646,434
c) Market Value of Assets	$698,325	$698,325	$698,325
d) Unfunded Liability/(Surplus) [(b) - (c)]	($29,125)	($40,926)	($51,891)
e) Funded Ratio	104.4%	106.2%	108.0%

Maturity Measures

As pension plans mature they become more sensitive to risks. Understanding plan maturity and how it affects the ability of a pension plan sponsor to tolerate risk is important in understanding how the pension plan is impacted by investment return volatility, other economic variables and changes in longevity or other demographic assumptions. Since it is the employer that bears the risk, it is appropriate to perform this analysis on a pension plan level considering all rate plans. The following measures are for one rate plan only.

One way to look at the maturity level of CalPERS and its plans is to look at the ratio of a plan's retiree liability to its total liability. A pension plan in its infancy will have a very low ratio of retiree liability to total liability. As the plan matures, the ratio starts increasing. A mature plan will often have a ratio above 60%-65%.

Ratio of Retiree Accrued Liability to Total Accrued Liability	**June 30, 2020**	**June 30, 2021**
1. Retired Accrued Liability	$0	$0
2. Total Accrued Liability	443,152	657,399
3. Ratio of Retiree AL to Total AL [(1) / (2)]	0.00	0.00

Another measure of maturity level of CalPERS and its plans is to look at the ratio of actives to retirees, also called the support ratio. A pension plan in its infancy will have a very high ratio of active to retired members. As the plan matures and members retire, the ratio declines. A mature plan will often have a ratio near or below one.

To calculate the support ratio for the rate plan, retirees and beneficiaries receiving a continuance are each counted as one, even though they may have only worked a portion of their careers as an active member of this rate plan. For this reason, the support ratio, while intuitive, may be less informative than the ratio of retiree liability to total accrued liability above. For comparison, the support ratio for all CalPERS public agency plans is 0.82 and is calculated consistently with how it is for the individual rate plan. Note that to calculate the support ratio for all public agency plans, a retiree with service from more than one CalPERS agency is counted as a retiree more than once.

Support Ratio	**June 30, 2020**	**June 30, 2021**
1. Number of Actives	14	19
2. Number of Retirees	0	0
3. Support Ratio [(1) / (2)]	N/A	N/A

Maturity Measures (Continued)

The actuarial calculations supplied in this communication are based on various assumptions about long-term demographic and economic behavior. Unless these assumptions (e.g., terminations, deaths, disabilities, retirements, salary growth, investment return) are exactly realized each year, there will be differences on a year-to-year basis. The year-to-year differences between actual experience and the assumptions are called actuarial gains and losses and serve to lower or raise required employer contributions from one year to the next. Therefore, employer contributions will inevitably fluctuate, especially due to the ups and downs of investment returns.

Asset Volatility Ratio

Shown in the table below is the asset volatility ratio (AVR), which is the ratio of market value of assets to payroll. Plans that have higher AVR experience more volatile employer contributions (as a percentage of payroll) due to investment return. For example, a plan with an asset-to-payroll ratio of 8 may experience twice the contribution volatility due to investment return volatility than a plan with an asset-to-payroll ratio of 4. It should be noted that this ratio is a measure of the current situation. It increases over time but generally tends to stabilize as the plan matures.

Liability Volatility Ratio

Also shown in the table below is the liability volatility ratio (LVR), which is the ratio of accrued liability to payroll. Plans that have a higher LVR experience more volatile employer contributions (as a percentage of payroll) due to changes in liability. For example, a plan with LVR ratio of 8 is expected to have twice the contribution volatility of a plan with LVR of 4. It should be noted that this ratio indicates a longer-term potential for contribution volatility, since the AVR, described above, will tend to move closer to the LVR as the funded ratio approaches 100%.

Contribution Volatility	June 30, 2020	June 30, 2021
1. Market Value of Assets	$406,213	$698,325
2. Payroll	784,851	1,146,323
3. Asset Volatility Ratio (AVR) [(1) / (2)]	0.5	0.6
4. Accrued Liability	$443,152	$657,399
5. Liability Volatility Ratio (LVR) [(4) / (2)]	0.6	0.6

Maturity Measures History

Valuation Date	Ratio of Retiree Accrued Liability to Total Accrued Liability	Support Ratio	Asset Volatility Ratio	Liability Volatility Ratio
06/30/2017	0.00	N/A	0.2	0.3
06/30/2018	0.00	N/A	0.3	0.3
06/30/2019	0.00	N/A	0.4	0.5
06/30/2020	0.00	N/A	0.5	0.6
06/30/2021	0.00	N/A	0.6	0.6

Hypothetical Termination Liability

The hypothetical termination liability is an estimate of the financial position of the plan had the contract with CalPERS been terminated as of June 30, 2021. The plan liability on a termination basis is calculated differently compared to the plan's ongoing funding liability. For the hypothetical termination liability calculation, both compensation and service are frozen as of the valuation date and no future pay increases or service accruals are assumed. This measure of funded status is not appropriate for assessing the need for future employer contributions in the case of an ongoing plan, that is, for an employer that continues to provide CalPERS retirement benefits to active employees.

A more conservative investment policy and asset allocation strategy was adopted by the board for the Terminated Agency Pool. The Terminated Agency Pool has limited funding sources since no future employer contributions will be made. Therefore, expected benefit payments are secured by risk-free assets and benefit security for members is increased while limiting the funding risk. However, this asset allocation has a lower expected rate of return than the PERF and consequently, a lower discount rate is assumed. The lower discount rate for the Terminated Agency Pool results in higher liabilities for terminated plans.

The effective termination discount rate will depend on actual market rates of return for risk-free securities on the date of termination. As market discount rates are variable, the table below shows a range for the hypothetical termination liability based on the lowest and highest interest rates observed during an approximate 19-month period from 12 months before the valuation date to seven months after.

Market Value of Assets (MVA)	Hypothetical Termination Liability[1,2] at 1.00%	Funded Ratio	Unfunded Termination Liability at 1.00%	Hypothetical Termination Liability[1,2] at 2.25%	Funded Ratio	Unfunded Termination Liability at 2.25%
$698,325	$1,851,882	37.7%	$1,153,557	$1,213,535	57.5%	$515,210

1 The hypothetical liabilities calculated above include a 5% contingency load. The contingency load and other actuarial assumptions can be found in Appendix A.

2 The discount rate used for termination valuations is a weighted average of the 10-year and 30-year U.S. Treasury yields where the weights are based on matching asset and liability durations as of the termination date. The discount rates used in the table are based on 20-year Treasury bonds, rounded to the nearest quarter percentage point, which is a good proxy for most plans. The 20-year Treasury yield was 2.00% on June 30, 2021, the valuation date.

In order to terminate the plan, first contact our Pension Contract Services unit to initiate a Resolution of Intent to Terminate. The completed Resolution will allow the plan actuary to provide a preliminary termination valuation with a more up-to-date estimate of the plan liabilities. Before beginning this process, please consult with the plan actuary.

Participant Data

The table below shows a summary of the plan's member data upon which this valuation is based:

	June 30, 2020	June 30, 2021
Active Members		
Counts	14	19
Average Attained Age	33.99	33.57
Average Entry Age to Rate Plan	30.82	30.74
Average Years of Credited Service	3.26	2.91
Average Annual Covered Pay	$56,061	$60,333
Annual Covered Payroll	$784,851	$1,146,323
Present Value of Future Payroll	$9,424,315	$14,439,820
Transferred Members	3	3
Separated Members	3	4
Retired Members and Beneficiaries		
Counts*	0	0
Average Annual Benefits*	$0	$0

Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one valuation group. This does not result in double counting of liabilities.

* Values include community property settlements.

List of Class 1 Benefit Provisions

This plan has the additional Class 1 Benefit Provisions:

- None

Plan's Major Benefit Options

Shown below is a summary of the major optional benefits for which the agency has contracted. A description of principal standard and optional plan provisions is in Section 2.

	Benefit Group	
Member Category	Misc	
Demographics		
Actives	Yes	
Transfers/Separated	Yes	
Receiving	No	
Benefit Provision		
Benefit Formula	2% @ 62	
Social Security Coverage	Yes	
Full/Modified	Full	
Employee Contribution Rate	6.75%	
Final Average Compensation Period	Three Year	
Sick Leave Credit	Yes	
Non-Industrial Disability	Standard	
Industrial Disability	No	
Pre-Retirement Death Benefits		
Optional Settlement 2	Yes	
1959 Survivor Benefit Level	No	
Special	No	
Alternate (firefighters)	No	
Post-Retirement Death Benefits		
Lump Sum	$500	
Survivor Allowance (PRSA)	No	
COLA	2%	

PEPRA Member Contribution Rates

The California Public Employees' Pension Reform Act of 2013 (PEPRA) established new benefit formulas, final compensation period, and contribution requirements for "new" employees (generally those first hired into a CalPERS-covered position on or after January 1, 2013). In accordance with Government Code Section 7522.30(b), "new members … shall have an initial contribution rate of at least 50% of the normal cost rate." The normal cost rate is dependent on the plan of retirement benefits, actuarial assumptions, and demographics of the risk pool, particularly members' entry age. Should the total normal cost rate change by more than 1% from the base total normal cost rate, the new member rate shall be 50% of the new normal cost rate rounded to the nearest quarter percent.

The table below shows the determination of the PEPRA member contribution rates effective July 1, 2023, based on 50% of the total normal cost rate as of the June 30, 2021 valuation.

		Basis for Current Rate		Rates Effective July 1, 2023			
Rate Plan Identifier	**Benefit Group Name**	**Total Normal Cost**	**Member Rate**	**Total Normal Cost**	**Change**	**Change Needed**	**Member Rate**
27361	Miscellaneous PEPRA Level	13.735%	6.75%	15.43%	1.695%	Yes	7.75%

Section 2

CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM

Risk Pool Actuarial Valuation Information

Section 2 may be found on the CalPERS website (www.calpers.ca.gov) in the Forms and Publications section

Investments (PERF*)

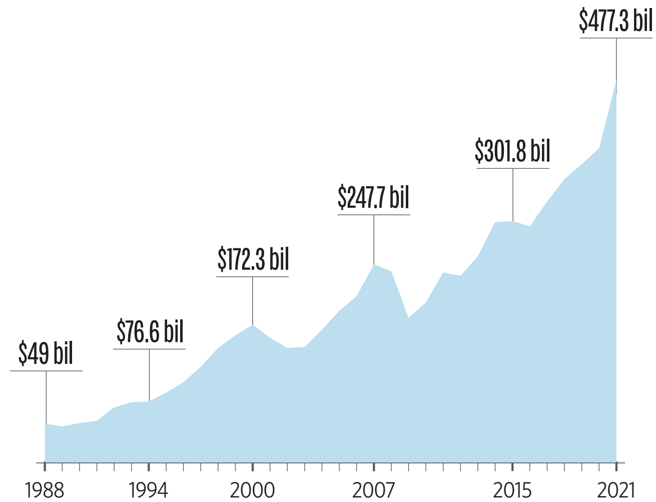
Total Fund Market Value & Fund Returns by Fiscal Year** *(for FY end 6/30)*

	(in billions)	(%)
2021	**$477.3**	**21.3%**
2020	$392.5	4.7%
2019	$372.6	6.7%
2018	$354.0	8.6%
2017	$326.4	11.2%
2016	$302.0	0.6%
2015	$301.9	2.4%
2014	$300.3	18.4%
2013	$257.9	13.2%
2012	$233.4	0.1%

* *Public Employees' Retirement Fund (PERF)*

** *Time-weighted rate of return net of investment expenses*

Total Fund Market Value 1988 – 2021
(for FY end 6/30)



Annualized Investment Returns*
(for FY end 6/30)

FY to date	21.3%
3 years	10.7%
5 years	10.3%
10 years	8.5%
20 years	6.9%
30 years	**8.4%**

* *Time-weighted rate of return net of investment expenses*

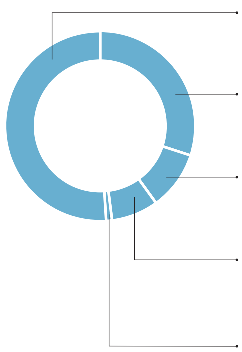
Discount Rate Changes

2022–23* (State/School)	7.0%	→	6.8%
2023–24* (PA)	7.0%	→	6.8%
2019–20* (State)	7.25%	→	7.0%
2020–21* (School/PA)	7.25%	→	7.0%
2018–19* (State)	7.375%	→	7.25%
2019–20* (School/PA)	7.375%	→	7.25%
2017–18* (State)	7.5%	→	7.375%
2018–19* (School/PA)	7.5%	→	7.375%

* *FY required contribution*

Investments (cont'd)

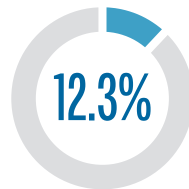
Current Asset Allocation



Asset Allocation

	Current Allocation	Strategic Asset Allocation
Public Equity	51.4%	50.0%
Global Fixed Income	29.8%	28.0%
Real Assets	9.6%	13.0%
Private Equity	8.3%	8.0%
Total Fund	2.5%	—
Financing & Liquidity	(1.6%)	1.0%

California Investments



$58.7 billion
California investments as percentage of the total fund

	Fair Value (in millions)
Total California Investments	**$58,656**
Public Equity*	$34,074
Global Fixed Income**	$8,980
Real Assets***	$13,150
Private Equity***	$2,452

* *Includes listed public equities corporate bonds.*

** *Fixed income also includes a portion of MBS & ABS, which have significant geographical exposure to CA & MHLP.*

*** *As of March 31, 2021*

Sustainable Investing

CalPERS actively engages with the companies we own to **protect the long-term sustainability of our investment**. From issues regarding environmental responsibility to safe labor practices, we keep an open dialog with company leaders and vote our proxies.

13,000+ Number of companies where CalPERS cast proxy votes in 2021 worldwide (calendar year)

Pension Funding

Funded Status of Retirement Plans by Member Category

	State	School	PA	Total
2019-20	**70.6% ***	**68.6%***	**71.1%***	**70.6%***
2018-19	70.0% *	68.5%*	70.8%*	70.2%*
2017-18	69.5% *	68.6%*	70.4%*	69.8%*
2016-17	65.8% *	68.7%*	69.5%*	68.0%*
2015-16	62.3%	67.8%	66.2%	68.3%
2014-15	69.4%	77.5%	74.5%	73.1%
2013-14	72.1%	82.0%	77.9%	76.3%
2012-13	66.1%	76.2%	70.5%	69.8%
2011-12	66.1%	75.4%	70.1%	69.6%

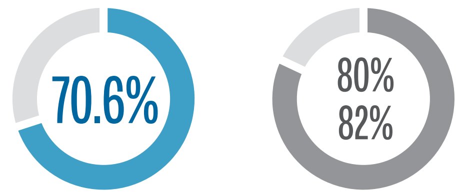
* *Based on a 7.0% discount rate and includes the terminated agency pool and 1959 survivor benefit plan.*

Contributions, 10-Year Review *(in thousands)*

	Employer Contributions	Member Contributions	Investment & Other Income
2020-21	**$20,034,757**	**$4,757,000**	**$88,059,909**
2019-20	$22,039,561	$4,901,000	$18,516,994
2018-19	$15,612,678	$4,664,618	$22,969,664
2017-18	$19,917,796*	$4,415,129	$27,448,098
2016-17	$12,329,837	$4,214,578	$32,977,020
2015-16	10,892,489	4,015,754	1,548,442
2014-15	9,997,705	3,826,072	6,702,997
2013-14	8,777,602	3,775,038	45,598,044
2012-13	8,123,833	3,897,078	30,291,983
2011-12	7,772,913	3,598,437	(196,014)

* *Amount includes an additional $6 billion dollar contribution by the state.*

Funded Status Total PERF

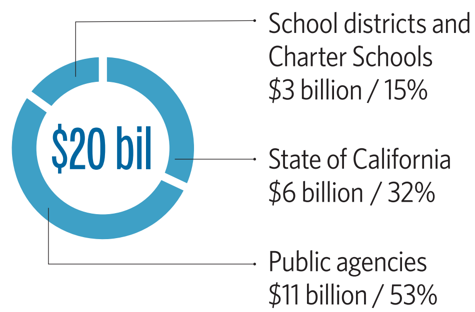


2019-20* 2020-21**

* *The PERF is the Public Employees' Retirement Fund. This percentage includes the terminated agency pool and the 1959 survivor benefit plan. Percentage based on a 7.0% discount rate.*

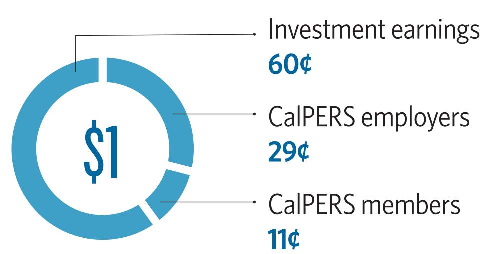
** *The 82% estimate is based on the 7% discount rate as of 6/30/2021. On 7/1/2021, the risk mitigation event was triggered due to the 21.3% investment return for FY 2020-21 and the 80% estimate is based on the new 6.8% discount rate.*

Total Employer Contributions



Shared Responsibility

Every dollar paid to CalPERS retirees comes from three sources*:



* *Income over the last 20 years.*

CORRESPONDENCE

Melissa Tallion

From: Diane Greeman
Sent: Monday, September 19, 2022 1:44 PM
To: District Wide Group
Subject: Compliment

Meron [redacted] called to extend his appreciation and compliment Osiel Salinas on the very good job he did in treating his yard for mosquitoes and also inspected the neighborhood. He said "thank you Osiel and the District for the good work we do!"

Good job Osiel!! 😊

Diane Greeman
Administrative Clerk
Office (760) 342-8287
www.cvmosquito.org
Coachella Valley MVCD

Melissa Tallion

From:	Diana Reyes
Sent:	Friday, September 30, 2022 12:30 PM
To:	District Wide Group
Cc:	Jess Lucia; Michael Martinez
Subject:	Employee Recognition

Good afternoon,

We received a call from resident, Debbie of Palm Desert. She called in to say that she had a RIFA treatment done today and was very pleased with the technician who came out, Jess Lucia. He was very nice and knowledgeable and did a great job.

Awesome Job, Jess. 😊

Diana Reyes
Administration Clerk
Public Outreach Department
(760) 342-8287 Ext. 325
www.cvmosquito.org
Coachella Valley MVCD

	Coachella Valley Mosquito and Vector Control District **Staff Report**	**October 11, 2022**

Agenda Item: Informational Item
Staff report from:
California Association of Public Information Officials Annual Conference, San Diego, CA.
Dates: August 29-September 1
Attendee: Tammy Gordon, Public Information Manager

Overview:

The California Association of Public Information Officials (CAPIO) is the leading statewide organization dedicated to advancing public sector communicators across all levels of government.

Special emphasis in this year's conference included topics of community engagement and JEDI (Justice, Equity, Diversity & Inclusion).

CVMVCD PIO Tammy Gordon presented as a speaker at the conference, presenting public speaking tips to a standing-room-only crowd. She also held the honor of emceeing the EPIC Awards.

Tammy received recognition for being one of three in the state of California to obtain the Accreditation in Public Relations (APR) in 2022. The APR is a nationally recognized certificate that credentials public relations practitioners in the field.

Strategic Business Plan Alignment:

Goal 2 – Governance and HR – A strong culture supports the Board and staff team that grows in skill, teamwork, and experience.

	Coachella Valley Mosquito and Vector Control District **Staff Report**	**October 11, 2022**

Agenda Item: Informational Item
Staff report from:

- SOVE 8th International Congress, September 19-23, 2022, Honolulu, HI

Background:
On a rotational basis, the Society for Vector Ecology conference hosts an International Congress, actively seeking speakers and presentations of vectors globally for a week of discussions of the latest issues. This year, the International Congress included students, vector control staff, government and academic researchers, and industry workers.

The keynote address highlighted the impacts of climate change on vector-borne diseases by Dr. Sadie Ryan. Her modeling work indicated not only that some temperate areas would experience tropical diseases, but that some areas endemic for disease would no longer be at risk. At the intersection of real-world data, predictions, and making decisions on how to allocate resources, Dr. Ryan's presentation highlighted how important the routine work that we are doing is useful in making predictions about tomorrow's disease transmission.

Attendees also enjoyed sessions on assessments of large-scale vector control operations; landscape-level mosquito control in Hawai'i to conserve native birds through incompatible mosquitoes; field applications of sterile mosquito techniques; genome editing advances for vector control; tick ecology; community education and participatory research; and microbial ecology. Attendees participated in small group discussions based on the symposia to share lessons learned and questions still to be answered in vector control.

ATTENDEES:
Jennifer A. Henke, M.S., Laboratory Manager
Kim Hung, Ph.D., Vector Ecologist

Strategic Business Plan Alignment:
Goal 2 – Governance and HR – A strong culture supports the Board and staff team that grows in skill, teamwork, and experience.

	Coachella Valley Mosquito and Vector Control District **Staff Report**	**October 11, 2022**

Agenda Item: Informational Item
Staff report from:
Master Public Information Officer Program, Emmitsburg, Maryland
Dates: September 19-23, 2022
Attendee: Tammy Gordon, M.A., APR, Public Information Manager

Overview:

The Master Public Information Officer Program (MPIO) is a three-course series that prepares public information officers for an expanded role in delivering public information and warning using a strategic whole-community approach. MPIO reinforces the qualities needed to lead whole community public information/external affairs programs, provides relevant management theories and concepts, and uses case studies to enhance public information/external affairs skill sets. MPIOP participants work within a collaborative environment on projects and establish a network of peers.

MPIO participants contribute to the body of knowledge for emergency management-related public information by dedicating 104 classroom hours and providing applied research studies. Cohorts successfully completed a research paper which is available to review through the National Emergency Training Center's library.

The final session of the year-long program was completed at the National Emergency Training Center. This program is sponsored by FEMA and there was no cost to CVMVCD for registration, travel, or logging.

Public Information Manager Tammy Gordon became one of only 137 nationally certified MPIOs across the nation.

Strategic Business Plan Alignment:

Goal 2 – Governance and HR – A strong culture supports the Board and staff team that grows in skill, teamwork, and experience.

OLD BUSINESS

	Coachella Valley Mosquito and Vector Control District **Staff Report**	**October 11, 2022**

Agenda Item: Old Business

Approval for the General Manager to sign the agreement with Dudek Civil Engineering services for a new parcel map for the District's excess property and record with the City of Indio – **David I'Anson, Administrative Finance Manager**

Background:
Following direction from the Ad Hoc Land/Property committee, staff requested a proposal from a civil engineer for creating a parcel map for the District's vacant property. The District received a proposal from civil engineer Dudek to prepare a tentative track map. The scope of work includes a land survey, preparation of a tentative tract map, meetings with the City Planning Commission and City Council, and project management and coordination. The cost of the proposal is $39,800.

Project Element	Total Fee
1a. Boundary Survey – NV5 Sub	$11,200
1b. Preliminary Title Report	$1,500
2. Preliminary Tract Map	$24,600
3. Project Management	$2,000
4. Reimbursable Expenses (estimated budget only – T&M)	$500
TOTAL	$39,800

2018-21 Strategic Business Plan Alignment:
Goal 1-Extend budgeting and the financial planning horizon to ensure long-term stability, financial security, and taxpayer value
Strategic Response- Establish Board policy/direction on retaining, using, or selling excess District-owned land.

Recommendation: Approval for the General Manager to sign the agreement with Dudek Civil Engineering services for a new parcel map for the District's excess property and record with the City of Indio
Exhibits: • CVMVCD Tract Map Proposal • Ad Hoc Land/Property timeline summary

DUDEK

78-075 MAIN STREET, STE. 203-G
LA QUINTA, CALIFORNIA 92253
T 760.601.3411 F 760.346.6118

September 26, 2022

Mr. David I'Anson
Coachella Valley Mosquito and Vector Control District
43420 Trader Place
Indio, California 92201

Subject: Tract Map
Request for Proposal

Dear Mr. I'Anson,

Dudek is pleased to submit this proposal for professional land surveying services. Dudek understands that CVMVCD desires land surveying services for the development of 15 lots located near Trader Place and Oleander Ave, Indio CA 92201, CA.

Included with our proposal is our proposed scope of services and our initial fee estimate. Should questions arise during your review of our proposal, or should you wish to discuss our approach, scope of work, or fee please feel free to contact me.

<u>Scope of work</u>

1. Land Survey Tasks to be provided by subconsultant NV5:
    a. Obtaining a Preliminary Title Report
    b. Boundary Survey

2. Prepare a Tentative Tract Map at a scale of 1"=20' for the site per local ordinance standards, and mapping requirements

3. Project Management and Coordination: This work item includes the coordination and daily supervision of the project as well as as-needed support to CVMVCD, City, and sub-consultants. This work item includes one (1) meetings with City staff, one (1) meeting with CVMVCD, and attendance at Planning Commission and City Council meeting. Additional meetings can be attended if requested by the client on a T&M basis.

4. Reimbursable Expense: The client will reimburse Dudek for all reimbursable expenses. Reimbursable expenses include, but are not limited to, administrative tasks, reprographics, deliveries, and mileage. These costs are billed at cost plus 15% markup.

<u>Assumptions/Clarifications</u>

1. All preliminary grading, drainage, and utilities plans are excluded from the scope or work. Should the City identify any of these as being necessary Dudek will negotiate an amended scope and budget for these services.
2. Proposed lot layout will match the expired tentative tract map (Parcel Map 28725)
3. Preparation of a Final tract map for recordation is not included.

SCHEDULE OF RATES

The total cost estimate for the scope of work is provided in the following table:

Project Element	Total Fee
1a. Boundary Survey – NV5 Sub	$11,200
1b. Preliminary Title Report	$1,500
2. Preliminary Tract Map	$24,600
3. Project Management	$2,000
4. Reimbursable Expenses (estimated budget only – T&M)	$500
TOTAL	$39,800

We sincerely appreciate this opportunity to serve CVMVCD. If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Armando Magaña

Armando Magana, PE, LS
Senior Engineer

Timeline

On June 16, 2021, the Ad Hoc Land/Property committee met and directed staff to research the following after the meeting:

Committee ask – Determine steps and costs involved in parcel review with the City of Indio.

Staff consulted with the City of Indio Community Development Department staff. Staff specified that an application, parcel map, and several fees for map review and environmental review would be required to approve a new parcel map with the City. The cost of City fees totaling $12,000.

Staff consulted with a Civil Engineer and their estimate to survey, create parcel maps, and navigate the process with the City would be between $20 and $30K. The total estimated cost of the project from parcel map design to approval would be in the range of $32,000 to $42,000.

Committee ask - Seek out a recommendation from a Commercial Real Estate Broker on what would be the best parcel configuration to possibly sell land.

Staff conferred with a local commercial real estate broker. They advised that splitting the vacant land into 1- acre parcels would be of most interest to a commercial developer.

Committee ask - Seek out a recommendation from a Commercial Real Estate Broker on what would be the best parcel configuration to possibly sell land.

Staff conferred with a local commercial real estate broker. They advised that splitting the vacant land into 1- acre parcels would be of most interest to a commercial developer.

On September 8, 2021, the Ad Hoc Land/Property committee met again to discuss the research with staff. The Ad Hoc Land/Property committee is making the following recommendation to the Board of Trustees at the October 12, 2021, Board meeting.

Committee Recommendation: District staff will:

1. Secure a proposal from a Civil Engineering firm to survey, create a new parcel map, and navigate the process with the City of Indio.

2. Subdivide the District's vacant land on Trader Place into one-acre parcels.

NEW BUSINESS

	Coachella Valley Mosquito and Vector Control District **Staff Report**	**October 11, 2022**

Agenda Item: New Business
Discussion and/or approval of Resolution 2022-25 adopting the CVMVCD Emergency Operations Plan **– Jeremy Wittie, M.S., CSDM, General Manager**

Background:
A focus for the 2018 and 2022 Strategic Business Plans is emergency preparedness as it relates to recovering from a disaster, natural or man-made. While the District has several well-thought-out and prepared plans for vector and vector-borne disease outbreaks it has not had an Emergency Operations Plan (EOP) to organize itself in the event of a disaster and function in a framework according to the Standardized Emergency Management System (SEMS). SEMS is the cornerstone of California's emergency response system and the fundamental structure for the response phase of emergency management. The system unifies all elements of California's emergency management community into a single integrated system and standardizes key elements.

To respond to disasters occurring at any time within the Coachella Valley the District staff need to be trained and have a plan to operate within a clear and consistent organizational structure for efficient organization of staff internally and to work with other agencies seamlessly to protect lives, property, and the environment during disasters. SEMS facilitates priority setting, interagency cooperation, and the efficient flow of resources and information.

The objectives of the Plan are to:
- Protect the safety and welfare of the overall community and the employees of the Coachella Valley Mosquito and Vector Control District.
- Provide a safe and coordinated response to emergency situations.
- Protect the District's facilities and equipment.
- Enable the District to restore normal conditions with minimal confusion in the shortest time possible.
- Provide for interface and coordination between incident sites and the District's Emergency Operations Center (EOC), and other city and county Emergency Operation Centers.

Specific goals falling within the objectives include: • Rapidly restore vector control services after an emergency. • Minimize adverse impacts on public health and employee safety. • Provide emergency public information concerning vector control issues. On August 19th CVMVCD management team met with Russ Patterson, an emergency planning consultant, that staff worked with to develop the EOP presented to the Board of Trustees for adoption. During the August 19th meeting, the Team reviewed, commented, and trained on SEMS and the proposed plan. After the training, the consultant led the Team through a tabletop exercise, following SEMS, to respond to the earthquake disaster experienced here in the Valley. This was the first tabletop exercise and training that will now be an annual occurrence moving forward to ensure management and supervisory staff are equipped and trained to recover after a disaster to ensure District staff are safe, bring back on board essential District IVM services, and assist and aide other local agencies as capable and necessary in the event of major disaster. In addition, Bobbye Dieckmann, Operations Manager, and Tammy Gordon, Public Information Manager, have been part of a working group this past summer with colleagues from Riverside County Disease Control Branch, CDPH, and Vector Control partners from other county programs to finalize a tabletop exercise to simulate a response to a County-wide dengue outbreak. This joint tabletop exercise will occur in early November 2022.
Strategic Business Plan Alignment: **2018 SBP** **Goal 7 Emergency Preparedness –** Ensure District facilities are prepared to operate effectively through disasters and emergencies, including public health emergencies caused by vector-borne diseases. **Objective 7.1.0** Extend emergency preparedness to include resiliency and recovery planning and joint interagency exercises. **2022 SBP** **Goal 1. Programs –** Cost-effective, Environmentally Sound Programs. **Objective 1.3** Prepare the District to recover quickly from an emergency **Work Plan 1.3.1 –** Carry out tabletop exercises on emergency response and disaster recovery scenarios
Staff Recommendation: Approve Resolution 2022-25 adopting the CVMVCD Emergency Operations Plan

Exhibits:

- Resolution 2022-25
- CVMVCD Emergency Operations Plan: https://www.cvmosquito.org/sites/g/files/vyhlif4551/f/uploads/cvmvcd_final_public-_eop_0.pdf

Resolution No. 2022-25

A RESOLUTION OF THE BOARD OF TRUSTEES OF THE COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT ADOPTING THE EMERGENCY OPERATIONS PLAN

WHEREAS, the Coachella Valley Mosquito and Vector Control District (the "District") is a political subdivision of the State of California, created and operating under the authority and provisions of California Health and Safety Code Section 2000 et seq.; and

WHEREAS, the Emergency Operations Plan is to protect the safety and welfare of the residents of the Coachella Valley and the employees and contractors of the Coachella Valley Mosquito and Vector Control District; and

WHEREAS, the Emergency Operations Plan will serve as a useful guide for all employees working in the Emergency Operations Center.

NOW, THEREFORE, THE BOARD OF TRUSTEES OF THE COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT DOES HEREBY RESOLVE AS FOLLOWS:

Section 1. Recitals.

The recitals set forth above are true and correct.

Section 2. **Adoption of the**

The Board of Trustees hereby adopts the District's Emergency Operations Plan.

Section 3. Delegation of Authority.

The District's General Manager is hereby delegated all authority necessary to implement the Emergency Operations Plan in a manner that is consistent with the State of California Emergency Operations Plan and Riverside County Operational Area Plan.

Section 4. Public Inspection and Copying.

A copy of the Emergency Operations Plan shall be maintained at the District offices and shall be made available for public inspection and copying during regular business hours.

Section 5. Severability.

The Board of Trustees declares that should any provision, section, paragraph, sentence, or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as hereby adopted shall remain in full force and effect.

Section 6. Repeal of Conflicting Provisions.

All the provisions of any resolution or policy heretofore adopted by the District that are in conflict with the provisions of this Resolution are hereby repealed.

Section 7. Effective Date.

This Resolution shall take effect upon its adoption

[REMAINDER OF THIS PAGE INTENTIONALLY LEFT BLANK]

Section 8. Certification.

The Clerk of the Board shall certify as to the adoption of this Resolution and shall cause the same to be processed in the manner required by law.

PASSED, ADOPTED, AND APPROVED this 11th day of October, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

____
Benjamin Guitron, President
Board of Trustees

ATTEST:

____
Melissa Tallion, Clerk of the Board

APPROVED AS TO FORM:

____
Lena D. Wade, General Counsel

REVIEWED:

____
Jeremy Wittie, MS, General Manager

EXHIBIT “A”

SEE ATTACHED
COACHELLA VALLEY MOSQUITO AND
VECTOR CONTROL DISTRICT
EMERGENCY OPERATIONS PLAN

	Coachella Valley Mosquito and Vector Control District **Staff Report**	**October 11, 2022**

Agenda Item: General Consent

Approval for General Manager to sign the agreement with USA Shade for the repairs to the District's shade structure – **David I'Anson, Administrative Finance Manager**

Background:

During the Spring 2022 windstorms, the fabric-covered parking area was torn at the seams. USA Shade the firm that originally installed the shade structure provided a proposal for modifying the structure, including alterations helping to prevent the fabric from tearing in the future. This modification is designed to withstand high winds and sand conditions. The total cost of the modification is $98,553.82 which is covered by the insurance, the District is required to pay the deductible of $25,000.

Staff Recommendation:

Approval for Jeremy Wittie, General Manager to sign the agreement with USA Shade for the repairs to the District's shade structure

Exhibits:

- USA Shade proposal

Modification of structure

5/16/2022

Pricing based on Sourcewell USA Shade Contract #010521-LTS-6

Proposal Prepared For:

Coachella Valley Mosquito Vector Control Dist.

43-420 Trader Place

Indio, CA 92201

AZ: 289388 CA: 989458 LA: 61718 NV:78724
NM: 383826 TN: 68712 DIR: 1000003533

www.usa-shade.com | 800-966-5005

Date: 5/16/2022

Proposal for USA SHADE & Fabric Structures

Project Information:				Sales Information:	
Purchaser:	CV Mosquito Vector Control Dist.	Contact:	Armando Gaspar	Sales Rep:	Ashley Donde
Project Name:	Modification of structure	Phone:	(760) 541-2061	Phone:	(760) 250-7824
Quote No:	02071919AAD	Email:	agaspar@cvmvcd.org	Email:	adonde@usa-shade.com
PO No:		Fax:		Fax:	

Billing Information:		Shipping Information:		Jobsite Information:	
Coachella Valley Mosquito Vector Control Dist.		SOUTHERN CALIFORNIA		Coachella Valley Mosquito Vector Control Dist.	
43-420 Trader Place		1085 N. Main Street, Suite C		43-420 Trader Place	
Indio		Orange		Indio	
CA		CA		CA	
92201		92867		92201	
Contact:	Armando Gaspar	Contact:	Armando Gaspar	Contact:	Armando Gaspar
Phone	(760) 541-2061	Phone	(760) 541-2061	Phone	(760) 541-2061
Email:	agaspar@cvmvcd.org	Email:	agaspar@cvmvcd.org	Email:	agaspar@cvmvcd.org
Fax:		Fax:		Fax:	

CORPORATE ADDRESS:
2580 Esters Blvd., Suite 100
DFW Airport, TX 75261

MAILING ADDRESS:
P.O. Box 3467
Coppel, TX 75019

REMITTANCE ADDRESS:
P.O. Box 734158
Dallas, TX 75373-4158

SOUTHERN CALIFORNIA:
1085 N. Main Street, Suite C
Orange, CA 92867

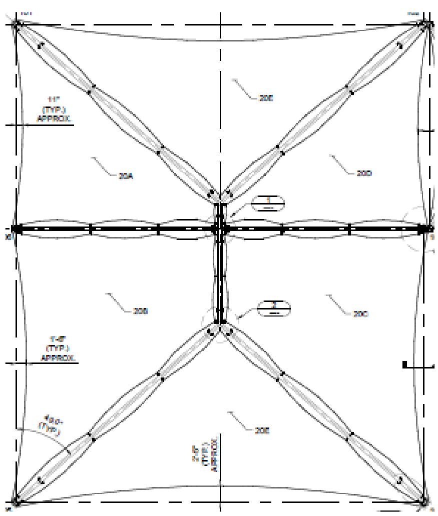
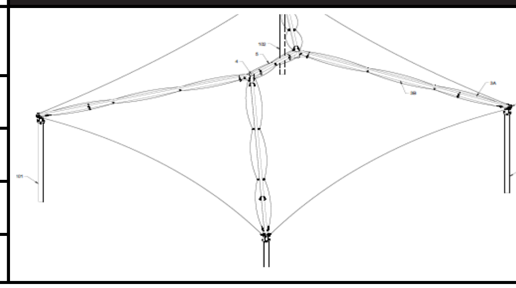
NORTHERN CALIFORNIA:
927 Enterprise Way, Suite A
Napa, CA 94558

ARIZONA:
2452 W. Birchwood Ave, Suite 112
Mesa, AZ 85202

LAS VEGAS:
6225 S. Valley View Blvd., Suite I
Las Vegas, NV 89118

Structure Pricing

Modification of Structure & Fabric Replacements

UNIT IMAGE	UNIT DETAILS		NOTES
	Unit Quantity:	1	Original order was 45343
	Unit Type:	Joined Double Wide Extended Hip SS	
	Structure Size:	75ft x 150ft	
	USA Shade Model Number	Custom 3	
	Entry Height:	14ft	
	No of Columns:	12	
	No of Fabric Tops:	see drawing	
	Fabric Type:	Extreme_32	
	Fabric Color:	Green	**Design Plan**
	Steel Finish:	Powder Coated	
	Steel Color:	Brown	
PRICE	Electrical Provisions:	N/A	
$98,553.82	Cable/HDW Finish:	Galvanized	
	Original Drawing #:	45343-1.0	

USASHADE & Fabric Structures®

ACCESS/MISC.			
QTY	ITEM	DETAILS	COST
TOTAL FOR ACCESS/MISC ITEMS:			$0.00

PRICINGTOTALS:	
Steel Brackets	included
Fabric and Cables	included
Shipping/Handling	included
SUBTOTAL	
Sales Tax (8.75%)	included
Engineering	included
Installation	included
TOTAL PRICE	$98,553.82

PAYMENT TERMS:	
(1) Upon execution of the Agreement (Deposit)	PO
(2) Upon delivery of Unit(s)	
(3) Upon completion of assembly/installation	100%
(4) Other (specify):	

NOTES:

Pricing based on Sourcewell USA Shade Contract #010521-LTS-6

USA SHADE reserves the right to implement a surcharge for significant increases in raw materials, including the following, but not limited to: fuel, steel , fabric, and concrete. Proposal pricing is only valid for 30 days due to the fluctuation in pricing. Due to recent significant increases experienced in raw steel and fabric materials, it may be necessary to order, invoice, and receive payments for steel and fabric as soon as final sizing can be determined.

ENGINEERING REQUIREMENTS		NOTES
Building Code		
Wind Load		
Snow Load		
Drawing Size		
No. of Sealed Drawings		
Calculations Required		

INCLUSIONS / EXCLUSIONS					
INCLUDED	EXCLUDED	ENGINEERING REQUIREMENTS	INCLUDED	EXCLUDED	INSTALLATION - MISCELLANEOUS
☑	☐	Sealed Drawings & Calculations	☑	☐	Prevailing Wage / Certified Payroll
☐	☑	Permit Submittal	☐	☑	Union Wages
☐	☑	Permit Fee	☐	☑	Fencing
☐	☑	DSA Submittal & Fees	☐	☑	Curb Repair
☑	☐	Design and Engineering of Structure	☐	☑	Landscape Repair
☐	☑	Design and Engineering of Foundation	☐	☑	Demolition (Existing Structures)
☐	☑	Reactions and Loads for attachment to Walls, Rooftops, or Other	☐	☑	Payment and Performance Bonds
☐	☑	Foundation Location and Elevation Survey	☐	☑	Special Inspection Fees

Construction Assumptions

1) The designated area for our structures will be accessible by drive-up for unloading of our trucks and equipment, including personnel man-lifts, forklifts, etc. Should a crane be required and direct access not available, additional costs for such will be submitted by a Change Order.

2) Our pricing is based on the ability to perform all of our work with clear, sequential, and continuous access without interruption during normal daytime working hours. We have assumed one mobilization for the installation of foundations, steel and fabric; if additional mobilizations are required, there will be an additional charge. We will require exclusive access to the area for our work during the construction process.

3) Our pricing does not include daily site delays accessing the work areas. USA SHADE will submit a Change Order for any delays caused by other trades which interfere or cause us to stop working.

4) Pricing assumes secure storage and adequate lay down area for our tools, equipment, and materials, within close proximity to the installation site will be provided, free of charge.

5) Our price assumes others to provide 110-volt electrical service and necessary potable water available within 100 feet of our work.

6) We will require site sanitary facilities and refuse containers by others within 200 feet of our work.

7) USA SHADE will leave its work and materials in a clean condition at the conclusion of our work.

8) Barricades and public security requirements are not included.

9) Unless specifically included in this proposal, this agreement does not include, and Company will not provide, services, labor, or materials for any of the following work: (a) removal and disposal of any materials containing asbestos or any hazardous materials as defined by the EPA; (b) moving Owner's property around the installation site; (c) repair or replacement of any Purchaser or Owner-supplied materials; or (d) repair of damage to existing surfaces that may occur when construction equipment and vehicles are being used in the normal course of construction.

10) Pricing for foundation design is based on drilled pier footings. In the event the geotechnical report requires an alternate configuration, any additional costs incurred will be submitted to the client by a Change Order.

11) Digging of our foundations will not be constrained by any existing concrete or utilities. USA SHADE will not be responsible for moving or repairing any underground utility lines such as electrical, telephone, gas, water, or sprinkler lines that may be encountered during installation.

12) Any additional costs incurred as a result of hard rock conditions requiring extra equipment, utility removal or repair, resulting in delay, will result in additional charges unless they are detailed on as-built site drawings provided to USA SHADE or marked on the ground and communicated to USA SHADE in writing prior to installation.

GENERAL TERMS & CONDITIONS AND WARRANTY

1) **Proposal:** The above proposal is valid for **30** days from the date first set forth above. After 30 days, we reserve the right to increase prices due to the rise in cost of raw materials, fuel, or other cost increases. When applicable, USA SHADE & Fabric Structures reserves the right to implement a surcharge for significant increases in raw materials, including, but not limited to; fuel, steel, and concrete. Due to the duration of time between proposals, contracts, and final installation, USA SHADE & Fabric Structures reserves the right to implement this surcharge, when applicable.

2) **Purchase:** By executing this proposal, or submitting a purchase order pursuant to this proposal (which shall incorporate the terms of this agreement specifically by reference) which is accepted by USA SHADE & Fabric Structures (the "Company"), the purchaser identified above ("you" or the "Purchaser") agrees to purchase Shade Structures brand shade structures ("Structures") and the services to be provided by the Company, as detailed in the "Structure Pricing" and "General Scope of Work" sections of this agreement, above, or in the relevant purchase order accepted by the Company, for use by Purchaser or for installation by Company or Purchaser on behalf of a third-party who will be the ultimate owner of the Structures (the ultimate owner of a Structure, whether Purchaser or a third-party, being the "Owner").

3) **Short Ship Claims:** Purchaser has 15 days from receipt of the structures to file a short ship report in writing to its sales representative. Company will not honor claims made after this time.

4) **Standard Exclusions:** Unless specifically included under the "General Scope of Work" section above, this agreement does not include, and Company will not provide, services, labor, or materials for any of the following work: (a) removal and disposal of any materials containing asbestos or any hazardous materials as defined by the EPA; (b) moving Owner's property around the installation site; (c) repair or replacement of any Purchaser or Owner-supplied materials; (d) repair of concealed underground utilities not located on prints supplied to Company by Owner during the bidding process, or physically staked out by Owner, and which are damaged during construction; or (e) repair of damage to existing surfaces that may occur when construction equipment and vehicles are being used in the normal course of construction.

5) **Bonding Guidelines:** If Purchaser will use or provide the Structures and Services for an Owner other than Purchaser (including, without limitation, as a subcontractor of Purchaser), Purchaser will include the following statement in Purchaser's contract with Owner:

> "The manufacturer's warranty for the Shade Structures brand shade structures is a separate document between USA SHADE & Fabric Structures and the ultimate owner of the Shade Structures brand shade structures, which will be provided to the ultimate owner at the time of completion of the installation and other services to be provided by USA SHADE & Fabric Structures. Due to surety requirements, any performance and/or payment bond will cover only the first year of the USA SHADE & Fabric Structures warranty."

6) **Insurance Requirements:** Company is not required to provide any insurance coverage in excess of Company's standard insurance. A copy of the Company's standard insurance is available for your review prior to acceptance of the Company's proposal.

7) **Payment:** Terms of payment are defined in the "Pricing Details" section and are specific to this contract. For purposes of this agreement, "Completion" is defined as being the point at which the Structure is suitable for its intended use, the issue of occupancy consent, or a final building department approval is issued, whichever occurs first. In any event where Completion cannot be effected due to delays or postponements caused by the Purchaser or Owner, final payment (less 10% retainage) is due within 30 days of the date when Completion was scheduled, had the delay not occurred. All payments must be made to Shade Structures, Inc., P.O. Box 734158, Dallas, TX 75373-4158. If the Purchaser or Owner fails or delays in making any scheduled milestone payments, the Company may suspend the fulfillment of its obligations hereunder until such payments are made, or Company may be relieved of its obligations hereunder if payment is more than 60 days past due. Company may use all remedies available to it under current laws including, but not limited to, filing of liens against the property and using a collection agency or the courts to secure the collection of the outstanding debt.

8) **Lien Releases:** Upon request by Owner, Company will issue appropriate partial lien releases as corresponding payments are received from Purchaser, but prior to receiving final payment from Purchaser or Owner. Company will provide a full release of liens upon receipt of final payment. In accordance with state laws, Company reserves the right to place a lien on the property if final payment has not been received 10 days prior to the filing deadline for liens.

9) **Site Plan Approval, Permit/s, Permit Fees, Plans, Engineering Drawings, and Surveying:** Site plan approval, permits, permit fees, plans, engineering drawings, and surveying are specifically excluded from this agreement and the Services unless specified under the "General Scope of Work". The Company does not in any way warrant or represent that a permit or site plan approval for construction will be obtained. Sealed engineered drawings that are required but not included in the "General Scope of Work" will result in an additional cost to Purchaser.

10) **Manufacturing & Delivery:** Manufacturing lead-time from Company's receipt of the "Notice To Proceed" is approximately 6 to 8 weeks for standard structures, and 8 to 12 weeks for custom structures. Delivery is approximately 1 week thereafter. Delivery of structures may be prior to or at start of assembly. Please note that these timelines do not include approval or permitting timeframes.

11) **Returned Product, Deposits, and/or Cancelled Order:** Within the first 45 days after shipment from our facility, all returned product(s) and cancelled orders are subject to a 50% restocking fee. No returns are available following this 45 day period. All deposits are non-refundable. All expenses incurred (engineering, site surveys, shipping, handling, etc.) are the responsibility of the Purchaser, up to notice of cancellation.

12) **__Concealed Conditions:__** "Concealed conditions" include, without limitation, water, gas, sprinkler, electrical and sewage lines, post tension cables, and steel rebar. This agreement is based solely on observations the Company was able to make either by visual inspection or by drawings and/or plans submitted by Owner at the time this agreement was bid. If additional Concealed Conditions are discovered once work has commenced, which were not visible at the time this proposal was bid, Company will stop work and indicate these unforeseen Concealed Conditions to Purchaser or Owner so that Purchaser and Company can execute a Change Order for any additional work. In any event, any damage caused by or to unforeseen Concealed Conditions is the sole responsibility of the Purchaser and Company shall not be held liable for any such damage. Soil conditions are assumed to be soil that does not contain any water, hard rock (such as limestone, caliche, etc.), rocks larger than 4 inches in diameter, or any other condition that will require additional labor, equipment and/or materials not specified by the Purchaser or Owner in the bidding process. Any condition requiring additional labor, equipment, and/or materials to complete the drilling or concrete operations will require a Change Order before Company will complete the process. Price quotes are based on a drilled pier footing. Any variation will incur additional charges (i.e. spread footings, concrete mat, sand, water, landfill, etc.). Costs for footing and installation do not include any allowance for extending below frost lines (the additional costs for which vary by geographical region).

13) **__Changes in the Work:__** During the course of this project, Purchaser may order changes in the work (both additions and deletions). Additionally, an approving agency may require changes in the work from the original design or engineering quoted and provided by the Company (both additions and deletions.) The cost of these changes will be determined by the Company, and a Change Order form must be completed and signed by both the Purchaser and the Company, which will detail the "General Scope of the Change Order". Should any Change Order be essential to the completion of the project, and the Purchaser refuses to authorize such Change Order, then Company will be deemed to have performed its part of the project, and the project and services will be terminated. Upon such termination, Company will submit a final billing to Purchaser for payment, less a labor allowance for work not performed but including additional charges incurred due to the stoppage. No credit will be allowed for materials sold and supplied, which will remain the property of the Purchaser.

14) **__Indemnification:__** To the fullest extent permitted by law, Purchaser shall indemnify, defend, and hold harmless the Company and its consultants, agents, and employees or any of them from and against claims, damages, losses and expenses, including, but not limited to, attorneys' fees related to the installation of the Structure or performance of the services, provided that such claim, damage, loss, or expense is attributable to bodily injury to, sickness, disease, or death of a person, or to injury to or destruction of tangible property, but only to the extent caused by the negligent acts or omissions of the Purchaser or its agents, employees, or subcontractors, or anyone directly or indirectly employed by them or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss, or expense is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity that would otherwise exist as to a party or person described in Section 15.

15) **__Statement of Limited Warranty:__**

- The structural integrity of all supplied steel is warranted for ten years.
- If assembly is provided by the Company, workmanship of the structure is covered for one year, including labor for the removal of any failed part, disassembly (if necessary), cost of shipping, and reassembly.
- All steel surface finishes are warranted for one year.
- Shadesure™, Colourshade® FR, eXtreme 32™, Commercial 95™, SaFRshade™, and Monotec 370™ fabrics all carry a ten year limited manufacturer's warranty against failure from significant fading, deterioration, breakdown, outdoor heat, cold, or discoloration. Should the fabric need to be replaced under the warranty, the Company will manufacture and ship a new replacement fabric at no charge for the first six years, thereafter pro-rated at 20% per year over the remaining four years. The following are exceptions to the preceding warranty terms:

    - Shadesure™ fabrics in Red, Yellow, Atomic Orange, Electric Purple, Zesty Lime, Cinnamon, Olive, and Mulberry carry a five year pro-rated
    - Fabric tops attached to Coolbrella™ structures carry a three year warranty;
    - Individual fabric tops measuring greater than 40' in length are covered by a non-prorated five year warranty;
    - Precontraint 502™ waterproof membrane is subject to an eight year pro-rated warranty.
- Sewing thread is warranted for ten years.

USA SHADE & Fabric Structures

General Limited Warranty Terms and Conditions

- These limited warranties are effective from the date of sale, or, if assembly is provided by the Company, upon receipt by Company from Purchaser of a completed and signed "Customer Checklist and Sign-off" form.
- In its sole discretion, the Company will repair and or/replace defective structures, products or workmanship, or refund that portion of the price related to the defective product, labor, or service rendered.
- The Company reserves the right, in cases where certain fabric colors have been discontinued, to offer the Purchaser or Owner a choice of available alternative colors to replace the warranted fabric. The Company does not guarantee that any particular color will be available for any period of time, and reserves the right to discontinue any color for any reason, without recourse by the Purchaser or Owner of the discontinued fabric color.

- Should the Purchaser or Owner sell the structures to another party, the warranty cannot be transferred to the new owner without a complete and thorough on-site inspection performed by a Company representative. Please contact the Company at warranty@usa-shade.com for more details.

- All warranty claims covering Company supplied structures, products, and services must be submitted by Purchaser or Owner in writing to the Company within thirty days from the date of discovery of the alleged defect and must include a detailed description and applicable photographs of the alleged defect or problem. Warranty claims should be submitted by email to warranty@usa-shade.com.

- Purchaser or Owner agrees that venue for any court action to enforce these limited warranties shall be in the City or County of Dallas in the State of Texas, USA.
- These limited warranties are void if:
  - the supplied structures, products, services and/or labor are not paid for in full;
  - the structures are not assembled in strict compliance with USA SHADE specifications;
  - any changes, modifications, additions, or attachments are made to the structures in any way, without prior written approval from the Company. Specifically, no signs, objects, fans, light fixtures, etc. may be hung from the structures, unless specifically engineered by the Company.

- These limited warranties do not cover defects and/or damages caused by:
  - normal wear and tear;
  - misuse, willful or intentional damage, vandalism, contact with chemicals, cuts and Acts of God (i.e. tornado, hurricane, micro/macros burst, earthquake, wildfires, etc.);
  - ice, snow or wind loads in excess of the designed load parameters engineered for the supplied structures;
  - use, maintenance, neglect, repair, and/or service inconsistent with the Company's written care and maintenance instructions, provided with the order.
- The limited warranties explicitly exclude:
  - workmanship related to assembly not provided by the Company or its agents;
  - fabric curtains, valances, and flat vertical panels;
  - fabric tops installed on structures that were not engineered and originally supplied by the Company.
- THE COMPANY SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, SPECIAL, LIQUIDATED, EXEMPLARY, OR PUNITIVE DAMAGES, OR ANY LOSS OF REVENUE, PROFIT, USE OR GOODWILL, WHETHER BASED UPON CONTRACT, TORT (INCLUDING NEGLIGENCE), OR ANY OTHER LEGAL THEORY, ARISING OUT OF A BREACH OF THIS WARRANTY OR IN CONNECTION WITH THE SALE, INSTALLATION, MAINTENANCE, USE, OPERATION OR REPAIR OF ANY PRODUCT OR SERVICE. IN NO EVENT WILL THE COMPANY BE LIABLE FOR ANY AMOUNT GREATER THAN THE PURCHASE PRICE FOR ANY PRODUCT OR SERVICE PROVIDED BY THE COMPANY.
- THE FOREGOING LIMITED WARRANTY IS THE SOLE AND EXCLUSIVE WARRANTY FOR THE COMPANY'S PRODUCTS AND SERVICES, AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, IN LAW OR IN FACT. SELLER SPECIFICALLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE OR PURPOSE, AND ANY IMPLIED WARRANTIES ARISING OUT OF COURSE OF DEALING OR PERFORMANCE OR TRADE USAGE. PURCHASER, BY ACCEPTANCE AND USE OF THIS LIMITED WARRANTY, WAIVES ANY RIGHTS IT WOULD OTHERWISE HAVE TO CLAIM OR ASSERT THAT THIS LIMITED WARRANTY FAILS OF ITS ESSENTIAL PURPOSE.

16) **Assembly/Installation:**

- Company will notify Purchaser of the scheduled assembly date. Owner agrees to have an owner representative meet the assembly crew at the job site on the scheduled assembly date to verify the exact location where the structure(s) is to be placed.
- Labor for the removal, assembly, and/or freight charges will only be covered by Company in instances where the structures supplied and installed by Company are determined by the Company to be defective. In all cases where structures are not installed by Company, all labor for the removal, assembly, and/or freight of the structures will be the Purchaser's responsibility.
- Installation prices are based on a single mobilization charge. If additional mobilizations are required, there will be additional charges.

- If the requested services require Company access to Owner's premises, Company will be provided access to the Owner's premises free and clear of debris, automobiles, or other interference Monday ~ Friday during the hours of 8:00am to 6:00pm, and Company will have access to water and electrical facilities during installation. Additional charges will apply if utilities are not easily accessible. Where applicable, all vehicles will be moved prior to Company's crew beginning any installation.
- Company will not be responsible for moving or repairing any underground utility lines such as electrical, telephone, gas, water, or sprinkler lines that may be encountered during installation.
- Any additional costs incurred as a result of hard rock conditions requiring extra equipment, utility removal or repair resulting in delay will result in additional charges unless they are detailed on as-built site drawings provided to Company or marked on the ground and communicated to Company in writing prior to fabrication and installation.

17) **Installation/Assembly on-site:** Where installation/assembly is part of the services, Purchaser must provide the Company with a detailed drawing prepared by or for the Owner showing exactly where the structures are to be assembled as well as detailing any obstacles or other impediments that may cause the assembly process to be more difficult. Any fixture(s), e.g., playground, pools, etc., that the structures are to be assembled over must also be detailed, along with their peak heights (if applicable).

18) **Site/Use Review by Purchaser:** Company relies on the Purchaser to determine that the structures ordered are appropriate and safe for the Owner's installation site and/or intended use. Company is not responsible for damages or injuries resulting from collisions by moving objects or persons with the structure post(s). Company can recommend, or supply at additional cost, padding for posts from a third party manufacturer.

19) **Preparatory Work:** Where installation/assembly is part of the services and in the event that the foundation or job site is not suitable or ready for assembly to begin on the scheduled day, a Delay of Order notification must be sent to Company at least 4 working days prior, in order to allow Company to reschedule the project. In the event that Company is not notified and incurs an expense in attempting to execute the assembly, a re-mobilization charge may be charged to Purchaser before Company will reschedule the assembly.

20) **Delegation: Subcontractors:** The services and the manufacturing and assembly of the structures may be performed by subcontractors under appropriate agreements with the Company.

21) **Force Majeure: Impracticability:** The Company shall not be charged with any loss or damage for failure or delay in delivering or assembling of the structures when such failure or delay is due to any cause beyond the control of the Company, due to compliance with governmental regulations or orders, or due to any Acts of God, strikes, lockouts, slowdowns, wars, or shortages in transportation, materials or labor.

22) **Dispute Resolution:** Any controversy or claim arising out of or related to this agreement must be settled by binding arbitration administered in Dallas, TX by a single arbitrator selected by the parties or by the American Arbitration Association, and conducted in accordance with the construction industry arbitration rules. Judgment upon the award may be entered in any court having jurisdiction thereof.

23) **Entire Agreement; No Reliance:** This agreement represents and contains the entire agreement between the parties. Prior discussion or verbal representations by the parties that are not contained in this agreement are not part of this agreement. Purchaser hereby acknowledges that it has not received or relied upon any statements or representations by Company or its agents which are not expressly stipulated herein, including without limitation any statements as to the structures, warranties, or services provided hereunder.

24) **No Third-Party Beneficiaries:** This agreement creates no third-party rights or obligations between Company and any other person, including any Owner who is not also a Purchaser. It is understood and agreed that the parties do not intend that any third party should be a beneficiary of this agreement.

25) **Governing Law:** The agreement will be construed and enforced in accordance with the laws of the State of Texas.

26) **Assignment:** Purchaser may not assign this agreement, by operation of law or otherwise, without the prior written consent of Company. The agreement shall be binding upon and insure to the benefit of the Company and the Purchaser, and their successors and permitted assigns.

Executed to be effective as of the date executed by the Company:

NOTE: FOR ANY PURCHASE EQUAL TO OR EXCEEDING $100,000.00 USD, NO WORK, OTHER THAN PRE-WORK, SHALL BE UNDERTAKEN WITHOUT A MUTUALLY ACCEPTABLE AND SIGNED CONSTRUCTION CONTRACT.

PURCHASER:
CV Mosquito Vector Control Dist.

Signature:

By: (Print)

Title:

Date:

SELLER:
USA SHADE & Fabric Structures

Signature:

By: (Print)

Title:

Date:

NOTE: All purchase orders and contracts should be drafted in the name of Shade Structures, Inc.

	Coachella Valley Mosquito and Vector Control District **Staff Report**	**October 11, 2022**

Agenda Item: New Business

Discussion and/or approval to purchase a 1800Q irradiator from Rad Source Technologies, Inc. in an amount not to exceed $135,000.00, **Budgeted; Funds Available** – **Jennifer A. Henke, M.S., Laboratory Manager**

Background:
The District continues to explore long-term solutions to the impacts of *Aedes aegypti* mosquitoes continuing the work of Resolution 2021-12 Support of evaluating sterile insect technique for its potential inclusion in the District's Integrated Vector Management Program.

There are three different types of techniques that we will evaluate – *Wolbachia* (when male mosquitoes with *Wolbachia* mate with wild female mosquitoes that do not have *Wolbachia*, the eggs do not hatch); self-limiting (when males with male-selecting genes are allowed to mate, the male offspring pass on their genes to the wild population while the female offspring do not become adults); and Irradiation (when male mosquitoes are bred and sterilized with radiation common to x-ray machines; when the male mosquitoes mate with wild females, the resulting eggs do not hatch).

We plan to purchase a 1800Q X-ray irradiator from Rad Source Technologies, Inc. This device has an integrated cooling system. The unit would allow the District to sterilize a few thousand mosquitoes at a time. While not suitable for the large releases that we will need to do to impact the mosquito population, using a smaller device in the winter will allow staff to troubleshoot issues, conduct in lab experiments with *Cx. quinquefasciatus*, and learn more about what is needed for the larger plans. Included in the price is the ability to do dosimetry (measure the amount of radiation supplied to the mosquitoes) as well as a 1-year preventative maintenance contract.

Strategic Business Plan Alignment:

Goal 1 – Programs – Cost Effective, Environmentally Sound Programs
Objective 1.1 – Explore long-term solutions to the health and nuisance impacts of *Aedes aegypti* mosquitoes

Recommendation:
Approval for the purchase of a 1800Q irradiator with dosimetry and preventative maintenance.

Exhibits:
- Quote for 1800Q X-ray Irradiator

Fiscal Impact:

FY2022-23 Budget	Current Available Funds	Proposed Expense Fiscal Year 2022-23	Remaining Available Funds
Amount budgeted $200,000	$200,000	$135,000	$65,000

RAD SOURCE
TECHNOLOGIES, INC.
4907 Golden Parkway, Suite 400, Buford, GA 30518
Phones: +1 678 765 7900 Website: www.radsource.com

QUOTATION TO:
Coachella Valley Mosquito & Vector Control District
43420 Trader Pl
Indio, CA 92201
ATTN: Jennifer Henke
jhenke@cvmvcd.org Tel: (760) 342-8287 x506

QUOTE IDENTIFIER: 18Q 092 15B
DATE: 09/27/2022
DELIVERY: 120 Days ARO
FOB: Buford, GA, USA
Quote is valid for 90 days

The information below is provided to and only for the intended recipient and is for use only by them. It is not to be distributed to any other party without the prior written consent of Rad Source Technologies, Inc.

RS 1800•Q X-ray Irradiator

Integrated System Features:

- Patented QUASTAR® X-ray Emitter Technology
- Highest dose rate in the industry for a dedicated cell irradiator
- X-ray irradiation source (produces radiation only when "ON")
- System has no radioactive source and does not require NRC license
- Easy operation – Touch pad, programmable controls
- Data Recording Module (User ID, Date, Time, and Total Dose)
- Uniform dose distribution using patented RADPlus™ Specimen Shelf
- System is caster mounted
- Safety interlocks
- *Meets all radiation safety requirements specified in Federal Regulation 21 CFR 1020.40*
- Integrated cooling system – no water hook-up required
- 1 year or 2400 hours Warranty on Parts, Labor, and Travel (excluding cosmetic items) CONUS and Canada
- Installation, On-site Dose mapping, Radiation Survey and Training Included

UNIT PRICE: RS 1800•Q **$ 103,000 USD**

Optional Equipment

- **Integrated Ion Chamber for Real Time Dosimetry***	**$ 8,900 USD**
- 1 Year or 2,400 hours Parts, Labor, and Travel, includes one annual preventative maintenance visit*	**$ 12,500 USD**
- Dose Reader 4 film reader	**$ 5,500 USD**

*** Denotes Recommended Option**

Shipping to: Indio, CA $ 7,857 USD

- This is a dedicated Electronic Equipment Standard Van delivery with 2 helpers for WHITE GLOVE, inside delivery and setup.
- IF there are non-standard delivery costs, i.e. rigging, cross-docking, non-standard height, obstructed access, forklift rentals and/or expedited services; additional fees/charges will be assessed.

Terms: As these are custom made systems, the initial payment of 40% is required with order to initiate order processing and building. Remaining 60% NET 30 (Credit approval required otherwise balance due prior to ship). For Tax Exempt entities please include a copy of certificate with PO otherwise applicable tax will be added to the final invoice.

PRICE TOTAL FOR RS 1800 Q

RS 1800 Q	**$**	**103,000 USD**
Optional Equipment Total	**$**	**29,400 USD**
Shipping to: CA	**$**	**7,857 USD**
TOTAL EXCLUDING TAXES	**$**	**140,257 USD**

Signature

Print Name and Title

Quotation valid for **90 days** from date above

Patent No. 9,484,177

Submitted by: Brent Phelan Ph: 678-765-7900 x1168 Email: bphelan@radsource.com

RAD SOURCE TECHNOLOGIES, INC. INITIAL WARRANTY

Subject to the terms and conditions of this Initial Warranty, if the Product is determined to be defective, Rad Source Technologies, Inc. (“Rad Source”) will, at its sole discretion, (i) replace the defective Product or defective parts, at no charge to the original owner, (ii) repair the defective Product or defective parts, at no charge to the original owner, or (iii) refund to the customer the amount actually paid to Rad Source for the defective Product.

1. COVERAGE. Rad Source will provide this Initial Warranty for the following Product (model and serial #): ____________________________

2. TERM. Subject to our receipt of payment in full, the term of this “Initial Warranty” begins on the date of delivery and expires on the lessor of the one year anniversary of the delivery date or 2,400 hours of operation “Warranty Period”. For any extension of any warranty period due to overage in hours in a warranty year, an extended warranty for that warranty year is available by contacting Rad Source. The Warranty shall then automatically renew for successive one (1) year terms ("Renewal Term"), unless either party provides a written notice of non-renewal not less than ninety (90) days prior to the end of any Renewal Term. Renewal Term price increases shall be communicated one hundred twenty (120) days prior to the end of any Renewal Term if applicable. Any claims under this Initial Warranty or Renewal Warranty which are not asserted in writing by the customer within the term shall be deemed to be waived by the customer.

3. LIMITATIONS OF COVERAGE. THIS INITIAL WARRANTY DOES NOT COVER:

a. non-functional parts (such as trim) and cosmetic defects; or

b. repair or replacement of any Product which is damaged or malfunctioning due to causes beyond Rad Source’s control, including, but not limited to, repairs necessitated by operator or owner negligence or misuse, rust caused by atmospheric conditions, abuse, theft, fire, flood, wind, lightning, freezing, power failure, power reduction or unusual atmospheric conditions.

c. any movement of unit without approval from Rad Source Service department voids warranty

4. TIME AND PLACE OF SERVICE. Initial Warranty service will be performed during Rad Source’s normal business hours. To arrange for service, contact Rad Source at (678) 765-7900.

5. LIMITATION OF LIABILITY. NEITHER RAD SOURCE, NOR ITS AFFILIATES, AGENTS, CONTRACTORS, OR LICENSEES WILL BE LIABLE FOR ANY INCIDENTAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES ARISING FROM THIS EXTENDED WARRANTY OR IN CONNECTION WITH THE USE OF THE PRODUCT, INCLUDING, BUT NOT LIMITED TO, PROPERTY DAMAGE, LOST PROFITS OR REVENUES, LOST TIME, LOSS OF USE OF COVERED PRODUCT(S) OR ANY OTHER DAMAGES RESULTING FROM THE BREAKDOWN OR FAILURE OF COVERED PRODUCT(S) SERVICED UNDER THIS INITIAL WARRANTY, DELAYS IN SERVICING OR THE INABILITY TO SERVICE ANY COVERED PRODUCT(S), REGARDLESS OF WHETHER RAD SOURCE HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT SHALL RAD SOURCE’S LIABILITY WITH REGARD TO THE PRODUCT EXCEED THE AMOUNT PAID BY THE CUSTOMER FOR THE PRODUCT GIVING RISE TO SUCH LIABILITY.

6. ARBITRATION. Any and all claims or disputes arising out of, in connection with, or in relation to the interpretation, performance or breach of this Initial Warranty shall be resolved, on an individual basis, by final and binding arbitration. However, this arbitration provision does not apply to any claim or dispute relating to the financing of or payment for this Initial Warranty, any claim or dispute relating to any security interest in goods or services or any agreement or disclosure relating to any financing, payment or security interest. All arbitrations shall be held at the office of the American Arbitration Association (“AAA”) in closest proximity to your facility. All arbitrations shall be administered by the AAA in accordance with its Commercial Arbitration Rules. The Federal Arbitration Act, 9 U.S.C. Sections 1, et. Seq. shall govern all arbitrations under this Initial Warranty.

7. LIMITATION OF WARRANTY. EXCEPT AS EXPRESSLY PROVIDED HEREIN, RAD SOURCE DOES NOT MAKE, AND HEREBY EXPRESSLY DISCLAIMS, ANY AND ALL OTHER WARRANTIES WITH REGARD TO THE PRODUCT, WHETHER EXPRESSED, IMPLIED, OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY, IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, WARRANTY OF NONINFRINGEMENT OF THIRD PARTY RIGHTS, OR WARRANTY THAT THE PRODUCTS MEET THE REQUIREMENTS OF THE CUSTOMER.

8. CHOICE OF LAW. This Initial Warranty is governed by the laws of the State of Georgia, without regard for conflict of laws principles.

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<tr><td></td><td>Coachella Valley Mosquito and Vector Control District

Staff Report</td><td>October 11, 2022</td></tr>
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Agenda Item: New Business

Discussion and/or approval to reschedule the November 8, 2022, Finance Committee meeting and Board meeting to November 15, 2022 **– Executive Committee**

Background:

The November 8, 2022, Finance Committee and Board Meeting fall on Election night. The Executive Committee met on September 27, 2022, and discussed this conflict. Having the Board meeting on Election night may prevent some Trustees from attending. Moving the Board meeting a week later allows for full participation and allows more time for Trustees, Staff, and the public to vote on November 8, 2022.

Executive Committee Recommendation:

Reschedule the November 8, 2022, Finance Committee and Board of Trustees meeting to Tuesday, November 15, 2022.