



FEBRUARY 21, 2023

BOARD OF TRUSTEES
REGULAR MEETING

BOARD PACKET

10:00 A.M.

8631 BOND ROAD
ELK GROVE, CA 95624

**SACRAMENTO/YOLO MOSQUITO
& VECTOR CONTROL DISTRICT
BOARD OF TRUSTEES REGULAR MEETING**

8631 Bond Road
Elk Grove, CA 95624

**AGENDA
February 21, 2023
10:00 AM**

In compliance with the Americans with Disability Act, if you are a disabled person and you need a disability-related modification or accommodation to participate in this meeting, please contact the District office at (916) 685-1022 or (916) 685-5464 (fax). Requests must be made as early as possible, and at least one-full business day before the start of the meeting.

Documents and materials relating to an open session agenda item that are provided to the SYMVCD Board less than 72 hours prior to a regular meeting will be available for public inspection and copying at 8631 Bond Road, Elk Grove, Ca 95624. The documents will also be available on the agency's website at www.fightthebite.net.

CALL TO ORDER:

- **Roll Call**
- **Pledge of Allegiance**

1. Items for Approval by General Consent:

- a. **Minutes of the January 24, 2023 Board of Trustees Meeting**
- b. **Expenditures for January 2023**
- c. **District Investment Reports for Period Ending 12/31/2022**
- d. **Board Review and Consideration of Janitorial Services Contract**

2. Opportunity for Public Comment

This item is reserved for members of the public who wish to speak on items not on the agenda

3. Reports to the Board

- a. **Manager's Report**
- b. **Reports from Trustees Attending the MVCAC Annual Conference**
- c. **Reports from District Departments**
 - **Lab/Surveillance**
 - **Ecological Management**
 - **Biological Control**

- Larval and Adult Control
- Public Outreach

4. **Board Review and Consideration of \$360,000 to Fund the Public Outreach Advertising Plan for the 2023 Mosquito Season**
5. **Board Review and Consideration of District's Five Year Plan**
6. **Board/Staff General Discussion**
7. **Adjournment**

**MINUTES OF THE JANUARY 24, 2023
MEETING OF THE BOARD OF TRUSTEES OF THE SACRAMENTO-
YOLO MOSQUITO & VECTOR CONTROL DISTRICT**

Location: Virtual Meeting via Zoom / In Person @ 8631 Bond Rd, Elk Grove, California
Time: 10:00 a.m.

Call to Order: The meeting was called to order by Board President Marcia Mooney at 10:01 a.m.

Trustees Present:

Marcia Mooney	President	Galt
Gar House*	Vice President	Winters
Sean Denny	Secretary	Woodland
Bruce Eldridge		Yolo County
Charles Duty*		Sacramento County
Christopher Barker		Davis
Craig Burnett*		Folsom
Janell Darroch		West Sacramento
Jayna Karpinski-Costa		Citrus Heights
Lyn Hawkins		Elk Grove
Raymond LaTorre		Sacramento
Staci Gardiner*		Isleton
Robert McGarvey	Absent	Rancho Cordova

*Appeared Remotely

Staff Present:

Gary Goodman	Manager
Jeni Buckman	Legal Counsel
Steve Ramos	Assistant Manager
Tony Hedley	Assistant Manager
Rebecca Lane	Administrative Manager
Luz Robles	Public Information Officer
Marty Scholl	Ecological Mgmt. Supervisor
Dan Fisher	IT Administrator
Demetri Dokos	So. Sacto. Field Supervisor
Ryan Wagner	Catch Basin Supervisor
David Smith	Aedes Supervisor
Tom Price	Shop Supervisor
Sarah Wheeler*	Lab Director

*Appeared Remotely

Roll Call

This meeting was both in person and by video teleconference. Attendance was taken by Roll Call. All Trustees aside from Trustee McGarvey were in attendance and a quorum was present.

Pledge of Allegiance

All phones and electronic devices are requested to be silenced during the Pledge of Allegiance and for the duration of the meeting.

1. Board Review and Consideration to Authorize the Board Meeting be Conducted both In-Person and by Teleconference

On a motion by Trustee Hawkins and seconded by Trustee Denny, the Board voted to approve this item. The vote was taken by roll call and the motion passed by the following votes: Ayes: 12, Noes: 0, Absent: 1

2. Items for Approval by General Consent

On a motion by Trustee Denny and seconded by Trustee LaTorre, the Board voted to approve the General Consent Items. The vote was taken by roll call and the motion passed by the following vote: Ayes: 12, Noes: 0, Absent: 1

- a. Minutes of the December 20, 2023 Board of Trustees Meeting
- b. Expenditures for December 2022
- c. Board Review and Consideration of District Annual Safety Committee Report

3. Opportunity for Public Comment

This item is reserved for members of the public who wish to speak on items not on the agenda.

No one was present for public comment.

4. Reports to the Board

Manager's Report: General Manager Gary Goodman gave an update on the impact that the recent weather has had on the District properties. He also discussed the upcoming MVCAC conference and provided a recap of the District's plans to fill vacancies that have recently opened. He indicated that a review of the 5-Year Plan and the financial audit will be presented at a future meeting.

Reports from District Departments: Written reports were provided in the Board packet from each department.

Select department supervisors gave an oral presentation and were available to answer any questions.

Administration

Steve Ramos / Tony Hedley, Assistant Managers:

Assistant Managers Ramos and Hedley provided the following update: This upcoming year, they look forward to working with the different Department Supervisors on evaluating and implementing items from the 5-Year plan. As the District Departments grow and evolve, they will be ensuring supervisors and technicians have what they need to continue achieving success as a public health organization. They discussed

the District's model of "how can we get better", and look forward to continuing the work in their roles as Assistant Managers. An additional goal they identified is to learn and become familiar with all vendor contracts while evaluating need, contract term, and cost/value. One recent example is the District's uniform contract. They favorably reduced the vendor's proposed 30% increase, year-to-year, to an acceptable 10% increase in year one with an annual reevaluation (maintaining a 5% cap).

SHOP

Tom Price, Shop Supervisor:

Tom provided an oral presentation in conjunction with a video that highlighted some efficiency and accuracy improvements the shop has made during 2022. He highlighted new and updated equipment, including a metal lathe and milling machine to repair and fabricate parts, as needed. He featured a new tire changer and balancer that replaced the aging and less efficient older equipment. Other highlights included a new sheet metal brake and a Portacool Evaporative Cooler. Shop staff continues to stay up to date on required National Institute for Automotive Service Excellence (ASE) certifications.

Control Operations

Ryan Wagner, Catch Basin Supervisor:

Ryan gave an oral presentation accompanied by a video. This past season, the District's Catch Basin Program continued to evolve in a number of ways – 2022 marked the first full year's use of the program's homemade mobile application and complete transition from paper maps and labor-intensive data entry. Catch basin treatments and inspections for 2022 surpassed 250,000, accomplished by six full-time and one seasonal employee. The crew also logged the highest number of catch basin sample collections since the inception of the program in 2005. Alongside these treatments, this Control Operations Division undertook several projects, including the first round of in-house pesticide residual studies and catch basin water collections for MGK (manufacturer of Sumilarv 0.5G and OneGuard) to assist in the final steps of their EPA registration process. In addition to the full-time use of the program's new RHD Jeep Wranglers and modified hybrid bicycles, the Catch Basin Division also obtained two electric scooters for use in suburban neighborhoods, parks, and large parking lots. The relatively low-cost, extended battery life and ease of movement with these devices, make them another efficient tool for accessing the many catch basins the District endeavors to manage.

Demetri Dokos, South Sacramento Field Supervisor:

During 2022, Control Operations South Sacramento Division crew consisted of eight (8) full time technicians and one (1) seasonal technician. Swimming pool mailers were sent out in March to 85 residents of Elk Grove that had unmaintained swimming pools. South Sacramento zones experienced a decrease in West Nile Virus (WNV) activity in 2022 as compared to the 2021 season. South Sacramento Technicians responded to 16 WNV-positive mosquito pools, one (1) WNV-positive horse, two (2) WNV-positive humans, and five (5) WNV-positive chickens from the Isleton flock, with radius work and Ultra Low Volume adulticide treatments. The South Sacramento Division also received one travel-related Malaria case and responded with a one (1)-mile radius inspection of all known mosquito breeding sites. South Sacramento Technicians (1) inspected 25,919 possible mosquito-breeding sites and performed 3,135 treatments of those sites and (2) responded to 406 service requests: 279 mosquito-related service requests, 110 for mosquitofish plants and 17 service requests for yellowjacket or paper wasp control. The South Sacramento rice numbers decreased from 1,300 acres in 2021 to 847 acres in 2022 (767 acres of organic rice and 80 acres

of conventional rice) (Twitchell Island rice was not planted this year due to the drought.) The South Sacramento Yellow Jacket Program set and monitored traps in the eucalyptus grove near Herald and East of Locke. In 2022, South Sacramento Technicians began Yellow Jacket trapping in the farm area of Bufferlands off of Dwight Road in Elk Grove to monitor Yellow Jacket populations in those areas.

David Smith, Aedes Supervisor:

Aedes Control was established in 2022 as a distinct division of Control Operations after operating within the North Sacramento Control Operations Division for the previous two years. Aedes Control was formed in response to the invasive *Aedes aegypti* mosquitoes first found within District boundaries in 2019. Aedes Control includes four (4) permanent full-time technicians and one (1) seasonal technician, and performs door to door inspections, treatments, trapping, and public education related to the breeding and activity of invasive mosquitoes.

In 2022, Aedes Control Technicians visited over 5,500 residences and conducted over 2,700 backyard inspections, which resulted in 1,500 adulticide treatments (residual barrier sprays and localized backpack ULV treatments). Aedes Control efforts also resulted in over 2,200 trap nights, separate from the District's Lab Program, using BG Sentinel Traps, with the bulk of the trapping performed from the end of August through October.

Additionally, new detections of *Ae. aegypti* were discovered in South Natomas within the City of Sacramento as well as the unincorporated areas of Sacramento County, including Carmichael, Rio Linda, and Orangevale.

The District's first *Aedes albopictus* detections were also made in Carmichael and South Natomas. This initial detection of *Ae. albopictus* uncovered a remote infestation of *Ae. albopictus* larvae and adults. The District responded to the detections by conducting Wide Area Larvicide Spray (WALS) treatments in tandem with Ultra Low Volume (ULV) adulticide treatments. WALS and ULV treatments were performed in Winters, South Natomas, Rosemont, Elder Creek, and Carmichael.

A primary goal for the Aedes Control team is to increase public awareness and education. Community education is vital in controlling invasive mosquito populations and the Aedes Control team continues to work with the District's Public Information Officer to achieve this awareness and education.

In 2023, the Aedes Control team will be transitioning to a new custom mobile Aedes application. This transition will help streamline data entry for the Division and provide real time data while in the field.

INFORMATION TECHNOLOGY

Dan Fisher, IT Administrator:

The Information Technology (IT) Department exists to support each department's role in the larger mission of the District with the use of technology.

This past year the IT Department continued to primarily work remotely, coming in as needed to maintain hardware such as setting up phones and laptops for new hires and our seasonal staff. Recently, IT work has been performed in the office to help upgrade inventory and surplus old equipment. After-hours and weekend work is necessary for the IT Department, notably for recovery from power outages but also for server maintenance and infrastructure upgrades working with contractors.

This past year the District upgraded internet connections at both Elk Grove and Woodland offices, lowering cost and increasing bandwidth. The District moved to Zoom Phones, with incredible cost savings and new abilities, like using an app on our PCs or smartphones to answer or place calls anywhere just as easily as picking up a desk phone in the office.

Another new technology used this year was our new aerial imagery contract with the company NearMap. This is a group-negotiated contract that the MVCAC IT Committee worked on for over a year. NearMap publishes their images as a stitched together aerial imagery base map to a website we can share with all our field technicians, just days after they are taken. We also used NearMap's imagery this year during our annual pool mailer program. NearMap also has advanced artificial intelligence software that they are developing along with help from us and the other mosquito districts to provide feedback and training data.

Another leap forward this year was a joint project with our Catch Basin supervisor, Ryan Wagner. Our Catch Basin Program manages over 150,000 sources and the process of creating, managing, and treating those sources has to be scaled down to make data entry for technicians efficient. We came across a technology called AppSheet. The District scaled up the amount of sources and features so quickly that it outpaced the lower cost account of AppSheet. So, the District purchased the enterprise plan and moved all the data over to a custom Google Cloud database, vastly increasing the speed and future flexibility of the new Catch Basin app. The Catch Basin Supervisor and IT are now working with Aedes Control Supervisor, David Smith, to design a custom Aedes field app, which is also a high-volume, door-to-door operation, with new types of data to manage.

This past year, IT also worked closely with front office staff and vendors to deploy a HR Self Service website. Employees can now update their own benefits and view pay and deductions history. The District also finalized the rollout of the timesheet entry website to all staff.

The IT Department is just as busy in the winter as in the summer, helping setup annual training websites and winter projects for departments to use during rainy days, managing server software updates, security updates, installing new server and networking hardware, helping supervisors run end of the year reports, analyzing our previous year operations and data, and planning for the next season.

**5. Closed Session – Public Employee Performance Evaluation (Gov. Code ss 54957):
Manager**

The Board went into closed session at 11:11am. The Board came out of Closed Session at 11:56 am, and Jeni Buckman reported out that the Board conducted the annual review of the Manager.

6. Board Consideration and Approval of District Officers for President, Vice President, and Secretary, and Delegating the Manager to Perform the Responsibilities of the Secretary

Once a year, at the end of the January meeting, the District elects new board officers. Gary Goodman called for nominations for President, Vice President, and Secretary.

On a motion by Trustee Karpinski-Costa, nominating Trustee Mooney as President, and seconded by Trustee Darroch, the Board voted to approve Marcia Mooney as the Board President. The vote was taken by roll call and the motion passed by the following vote: Ayes: 12, Noes: 0, Absent: 1.

The Board voted on a motion by Trustee Mooney, seconded by Trustee Karpinski-Costa, nominating Trustee Denny as Vice President. The vote was taken by roll call and the motion passed by the following vote: Ayes: 12, Noes: 0, Absent: 1.

The Board voted on a motion by Trustee Mooney, seconded by Trustee Karpinski-Costa, nominating Trustee Denny as Secretary. The vote was taken by roll call and the motion passed by the following vote: Ayes: 12, Noes: 0, Absent: 1.

7. Board/Staff Reports and Requests / General Discussion

The Manager discussed the possibility of a Sterile Insect Technique (SIT) project being investigated with other interested parties.

8. ADJOURNMENT

The meeting adjourned at 12:15pm.

I certify that the above minutes substantially reflect the general business and actions taken by the Board of Trustees at the January 24, 2023, meeting.

Gary Goodman, Manager

Approved as written, and/or corrected, by the Board of Trustees at the January 24, 2023, meeting.

Sean Denny, Board Secretary

Check History Report
Sorted By Check Number
Activity From: 1/1/2023 to 1/31/2023

Sacramento Yolo MVCD (SYC)

Bank Code: U US Bank

Check Number	Check Date	Vendor Number	Name	Check Amount	Check Type
056340	1/11/2023	0002428	Benefit Coordinators Corp.	9,248.90	Auto
056341	1/11/2023	0000267	Kaiser Foundation Health Plan	49,761.15	Auto
056342	1/11/2023	0000141	PRISM	344.76	Auto
056343	1/11/2023	0000957	Sutter Health Plus	10,506.66	Auto
056344	1/11/2023	0000531	Western Health Advantage	8,212.09	Auto
056345	1/11/2023	0000531	Western Health Advantage	1,088.41	Auto
056346	1/11/2023	0000018	ANDKO Building Maintenance Inc.	4,804.94	Auto
056347	1/11/2023	0001011	Buckmaster Office Solutions	64.45	Auto
056348	1/11/2023	0000202	Ferrellgas	33.61	Auto
056349	1/11/2023	0002352	Kingsley Bogard, LLP	4,869.93	Auto
056350	1/11/2023	0000497	MagneGas Welding Supply	86.24	Auto
056351	1/11/2023	0000367	PG & E	4,105.83	Auto
056352	1/11/2023	0001465	Sacramento Control Systems, Inc.	390.00	Auto
056353	1/11/2023	0000451	SMUD	3,507.42	Auto
056354	1/11/2023	0001234	T-Mobile	1,453.62	Auto
056355	1/11/2023	0002407	Valley Fire & Security	69.50	Auto
056356	1/11/2023	0000522	Verizon Wireless	2,973.66	Auto
056357	1/11/2023	0000504	US Bank	18,718.06	Auto
056358	1/17/2023	0000013	Airgas USA LLC	89.08	Auto
056359	1/17/2023	0000034	AutoZone Inc	940.96	Auto
056360	1/17/2023	0002541	Barnes Welding	534.67	Auto
056361	1/17/2023	0001011	Buckmaster Office Solutions	81.14	Auto
056362	1/17/2023	0000774	CA Department of Fish & Wildlife: CNDDDB	400.00	Auto
056363	1/17/2023	0001019	Cintas Corporation	3,125.04	Auto
056364	1/17/2023	0000117	City of Woodland	222.97	Auto
056365	1/17/2023	0000128	Consolidated Communications	2,279.65	Auto
056366	1/17/2023	0000186	Elk Grove Water District	348.78	Auto
056367	1/17/2023	0000240	Hunt & Sons Inc	3,507.49	Auto
056368	1/17/2023	0000286	Leading Edge Associates Inc.	1,200.00	Auto
056369	1/17/2023	0000286	Leading Edge Associates Inc.	1,200.00	Auto
056370	1/17/2023	0001488	Red Shoe Productions	5,400.00	Auto
056371	1/17/2023	0000388	Republic Services #922	370.24	Auto
056372	1/17/2023	0000399	Ryan Herco Products Corp	84.28	Auto
056373	1/17/2023	0000424	Safe Side Security	384.00	Auto
056374	1/17/2023	0000454	Spark Creative Design	527.90	Auto
056375	1/17/2023	0000492	Top Rank Heating Air Conditioning Inc	1,669.50	Auto
056376	1/17/2023	0000518	Vector Disease Control International	52,083.33	Auto
056377	1/17/2023	0000529	Waste Management	235.48	Auto
056378	1/26/2023	0002541	Barnes Welding	389.11	Auto
056379	1/26/2023	0000038	Bartkiewicz Kronick & Shanahan	1,224.66	Auto
056380	1/26/2023	0000043	Benefit Coordinators Corporation	3,440.96	Auto
056381	1/26/2023	0001011	Buckmaster Office Solutions	64.45	Auto
056382	1/26/2023	0000083	CA Department of Tax and Fee Administration	131.00	Auto
056383	1/26/2023	0000084	CA State Disbursement Unit	350.00	Auto
056384	1/26/2023	0000202	Ferrellgas	32.77	Auto
056385	1/26/2023	0000240	Hunt & Sons Inc	88.88	Auto
056386	1/26/2023	0000306	Maita Chevrolet	929.81	Auto
056387	1/26/2023	0001035	Operating Engineers Local Union No. 3	1,156.00	Auto
056388	1/26/2023	0000356	O'Reilly Automotive Stores Inc	131.39	Auto
056389	1/26/2023	0000367	PG & E	2,271.76	Auto
056390	1/26/2023	0001497	Pure Water Partners	1,438.47	Auto
056391	1/26/2023	0000377	Radial Tire of Elk Grove	513.24	Auto
056392	1/26/2023	0000562	RKL eSolutions, LLC	1,912.50	Auto
056393	1/26/2023	0000461	Stericycle Inc	93.44	Auto

Check History Report
Sorted By Check Number
Activity From: 1/1/2023 to 1/31/2023

Sacramento Yolo MVCD (SYC)

Bank Code: U US Bank

Check Number	Check Date	Vendor Number	Name	Check Amount	Check Type
056394	1/26/2023	0000462	Sterling May Co	121.41	Auto
056395	1/26/2023	0001525	Turlock Mosquito Abatement District	17,595.00	Auto
056396	1/26/2023	0002407	Valley Fire & Security	69.50	Auto
056397	1/26/2023	0000522	Verizon Wireless	2,786.45	Auto
056398	1/26/2023	0000016	American International Manufacturing	140.41	Auto
056399	1/26/2023	0000475	Target Specialty Products	7,423.92	Auto
056400	1/26/2023	0000518	Vector Disease Control International	1,041.67	Auto
056401	1/26/2023	0001471	Walker's Office Supply	303.79	Auto
W00320	1/31/2023	0000561	United States Treasury	60,639.82	Wire Transfer
W00321	1/31/2023	0000176	EDD	15,961.90	Wire Transfer
W00322	1/31/2023	0000339	Nationwide Retirement Solutions	3,425.00	Wire Transfer
W00323	1/31/2023	0000339	Nationwide Retirement Solutions	2,300.00	Wire Transfer
W00324	1/31/2023	0000086	CalPERS 457 Plan	17,879.43	Wire Transfer
W00325	1/31/2023	0000087	CalPERS Financial Reporting & Accounting Services	84,028.73	Wire Transfer
Bank U Total:				<u>422,809.21</u>	
Report Total:				<u><u>422,809.21</u></u>	

I hereby authorize the use of my signature plate on
the above-listed warrants, 056340-056401, and EFTs

Signature

Date

Marcia Mooney, President of the Board

Sacramento/Yolo M.V.C.D.

STATEMENT OF OPERATION

	<u>7Months Ended</u> <u>January31 2022</u>	<u>Annual</u> <u>Budget</u>	<u>Unused</u>
Revenue			
REVENUE	7,132,469.59	0.00	7,132,469.59
TOTAL Revenue	<u>7,132,469.59</u>	<u>0.00</u>	<u>7,132,469.59</u>
Expenditures			
SALARIES/BENEFITS/WC			
SALARIES/BENEFITS/WC	7,790,321.83	9,136,769.78	1,346,447.95
TOTAL Salaries	<u>7,790,321.83</u>	<u>9,136,769.78</u>	<u>1,346,447.95</u>
OPERATIONAL			
LIABILITY INSURANCE	212,157.00	215,825.00	3,668.00
AUDITING/FISCAL	16,000.00	16,000.00	0.00
COMMUNICATIONS	50,135.98	93,500.00	43,364.02
PUBLIC INFORMATION	199,013.82	572,000.00	372,986.18
STRUCTURE & GROUNDS	60,278.12	83,000.00	22,721.88
MEMBER/TRAINING	59,050.11	119,000.00	59,949.89
DISTRICT OFFICE EXPENSES	13,100.33	17,500.00	4,399.67
PROFESSIONAL SERVICES	81,679.03	220,250.00	138,570.97
MATERIALS & SUPPLIES	11,382.07	22,000.00	10,617.93
RENTS & LEASES - Admin	5,201.26	11,550.00	6,348.74
SAFETY PROGRAM	1,520.00	5,000.00	3,480.00
UTILITIES	60,709.50	110,000.00	49,290.50
AIRCRAFT SERVICES	713,669.76	1,020,000.00	306,330.24
ECOLOGICAL MANAGEMENT	567.46	18,500.00	17,932.54
MICROBIAL	820,738.09	1,550,000.00	729,261.91
INSECT GROWTH REGULATOR	678,863.90	1,100,000.00	421,136.10
INSECTICIDES	400,998.27	1,100,000.00	699,001.73
FISHERIES	11,478.74	32,000.00	20,521.26
GEOGRAPHIC INFO SYSTEMS	3,768.00	9,000.00	5,232.00
INFORMATION TECHNOLOGY	32,136.06	66,680.00	34,543.94
CONTROL OPERATIONS	19,122.85	47,000.00	27,877.15
VEHICLE PARTS/LABOR	67,698.74	101,000.00	33,301.26
LAB SERVICES	125,077.94	185,000.00	59,922.06
GAS & PETROLEUM	110,559.47	170,000.00	59,440.53
TOTAL Total Operational	<u>3,754,906.50</u>	<u>6,884,805.00</u>	<u>3,129,898.50</u>



SACRAMENTO COUNTY

8631 Bond Road
Elk Grove, CA 95624

(800) 429-1022
www.FIGHTtheBITE.net

Gary Goodman
General Manager

2022 Board of Trustees

Marcia Mooney
President, Galt

Gar House
Vice President, Winters

Sean Denny
Secretary, Woodland

Christopher Barker
Davis

Craig R. Burnett
Folsom

Janell Darroch
West Sacramento

Charles Duty
Sacramento County

Bruce Eldridge
Yolo County

Lyndon Hawkins
Elk Grove

Jayna Karpinski-Costa
Citrus Heights

Raymond LaTorre
Sacramento

Robert J. McGarvey
Rancho Cordova

Staci Gardiner
Isleton

Sacramento-Yolo Mosquito and Vector Control District Investment Report

The District investment policy authorizes District funds and monies to be invested in only one or a combination of the following institutions and investment types:

- A. Yolo County Treasurer Investment Pool
- B. State Treasurer's Local Agency Investment Fund (L.A.I.F.)
- C. Member and Property Contingency Fund deposits with the Vector Control Joint Powers Agency (VCJPA)
- D. Prefunding of Other Post-Employment Benefits (OPEB) through California Public Employer's Retiree Benefit Trust Program (CERBT)

As the District receives revenue from taxes and other resources the funds are deposited with the Yolo County Treasurer. The following is the interest earnings, fund balances, and investments of the District for the quarter ending **December 31, 2022.**

Institution		Earnings	Total as of 12/31/2022
Yolo County Treasurer Investment Pool	1.762%*	\$3,761.37	\$1,993,550.50
L.A.I.F.	2.07%	\$34,377.74	\$5,390,813.79
VCJPA-Member Contingency Fund	1.81%	\$20,863.00	\$1,664,402.00
CERBT-Strategy 3		\$83,100.88	\$1,955,027.39
		District Total:	\$11,003,793.68

**Rates are reflected as annualized earning rates*



County of Yolo

www.yolocounty.org

CHAD RINDE, CPA
Chief Financial Officer
TOM HAYNES
Assistant Chief Financial Officer

DEPARTMENT OF FINANCIAL SERVICES

625 Court Street, Room 102
PO BOX 1995
WOODLAND, CA 95776
PHONE: (530) 666-8190
FAX: (530) 666-8215
EMAIL: DFS@yolocounty.org

- Financial Leadership
- Budget & Financial Planning
- Treasury & Finance
- Tax & Revenue Collection
- Financial Systems Oversight
- Accounting & Financial Reporting
- Internal Audit
- Procurement

February 14, 2022

Mr. Gary Goodman
Sacramento-Yolo Mosquito Abatement District
8631 Bond Road
Elk Grove, CA 95624

Dear Mr. Goodman:

Listed below for your information and that of the Board of Directors, is data pertaining to interest earnings, fund balances and investments of the District for the quarter ended December 31, 2022. The Yolo County Treasurer's Investment Report is available electronically. Should you or the Board wish additional information or have any questions, please let me know.

<u>PERIOD</u>	<u>YOLO COUNTY</u>	<u>LAIF</u>	<u>EARNINGS</u>
Quarter ending December 31, 2022:	1.762%*		\$ 3,761.37
Quarter ending December 31, 2022:		2.07%	\$ 34,377.74

Placement of Funds as of December 31:

Yolo County Treasurer's Pool (Fund 6953)	\$ 1,993,550.50
Flexible Spending Account	12,317.03
LAIF	<u>5,390,813.79</u>
Total	\$ 7,396,681.32

*Rates are reflected above as annualized earning rates.

Sincerely,

Sou Xiong
Accounting Manager



Vector Control Joint Powers Agency

Member Contingency Fund

For the Quarter Ended
December 31, 2022

Member District	Balance at Beginning of Quarter	Contribution	(Withdrawals)	Interest Earned	Allocated Admin.	Balance at End of Quarter
Alameda County	341,986			4,359	(8)	346,337
Burney Basin	33,153	174		424	(1)	33,750
Butte County	309,320	15,043		4,038	(8)	328,393
Coachella Valley	810,188	13,602		10,413	(20)	834,183
Coalinga-Huron	7,368	44		94	0	7,506
Colusa	85,305	610		1,091	(2)	87,004
Compton Creek	64,537			823	(2)	65,358
Consolidated	396,722			5,056	(9)	401,769
Contra Costa	1,185,499	7,974	(445)	15,157	(28)	1,208,158
Durham	4,020			51	0	4,071
Fresno	204,630	2,203		2,622	(5)	209,450
Glenn County	39,885			508	(1)	40,392
Greater Los Angeles County	1,429,850	22,654		18,366	(34)	1,470,836
Lake County	130,894	1,738		1,679	(3)	134,308
Los Angeles County West	696,398			8,876	(17)	705,257
Marin-Sonoma	775,805			9,888	(19)	785,674
Monterey County	18,033	1,049		237	0	19,319
Napa County	1,260,335			16,063	(30)	1,276,368
Northwest	251,721			3,208	(6)	254,923
Orange County	409,636			5,221	(10)	414,847
Oroville *	11,063		(11,063)	0	0	0
Pine Grove	30,864	76		394	(1)	31,333
Placer	223,680			2,851	(5)	226,526
Sacramento-Yolo	1,630,266	13,312		20,863	(39)	1,664,402
San Gabriel Valley	123,877			1,579	(3)	125,453
San Joaquin County	411,839	9,923		5,312	(10)	427,064
San Mateo County	463,221			5,904	(11)	469,114
Santa Barbara County	74,300	1,200		955	(2)	76,453
Shasta	240,516			3,065	(6)	243,575
Sutter-Yuba	264,770	2,874		3,393	(6)	271,031
Tehama County	258,735			3,298	(6)	262,027
Turlock	29,224	2,427		388	(1)	32,038
West Valley	296,120	4,354		3,802	(7)	304,269
Total	12,513,759	99,257	(11,508)	159,978	(300)	12,761,187

Notes:
Yield to maturity rate on the VCJPA portfolio is 1.81% as of the above date. As required by GASB 31, the allocated interest shown also reflects market value changes to the securities held in the portfolio. Therefore, the actual interest allocated to this fund, and all program year funds, may or may not equal the yield to maturity rate from quarter to quarter. However, the average overall allocated interest, over the life of this fund, should provide a close approximation.

* Oroville MCF balance of \$11,063 as of September 30, 2022 was transferred to Butte County MCF at December 31, 2022.

Vector Control Joint Powers Agency
Member Contingency Fund - Prudent Balance Calculation
As of December 31, 2022

		Self-Insurance Exposure - Two Times Deductible										
Member District		Liability	Workers' Compensation	APD	Property	Sub-Total 2 X Deductible	2022/2023 Contribution	Two Times Contribution	Prudent Balance	Member Contingency Fund Balance 12/31/2022	Amount Over / (Under)	
		A	B	C	D	E=SUM(A:D)	F	G=F x 2	H=E+G	I	J=I-H	
1	Alameda County	20,000	50,000	2,000	1,000	73,000	176,982	353,964	426,964	346,337	(80,627)	
2	Burney Basin	2,000	10,000	2,000	1,000	15,000	8,422	16,844	31,844	33,750	1,906	
3	Butte County	20,000	50,000	2,000	1,000	73,000	147,236	294,472	367,472	328,393	(39,079)	
4	Coachella Valley	50,000	50,000	2,000	1,000	103,000	488,977	977,954	1,080,954	834,183	(246,771)	
5	Coalinga-Huron	2,000	5,000	2,000	1,000	10,000	3,577	7,154	17,154	7,506	(9,648)	
6	Colusa	2,000	10,000	2,000	1,000	15,000	21,261	42,522	57,522	87,004	29,482	
7	Compton Creek	5,000	5,000	2,000	1,000	13,000	15,766	31,532	44,532	65,358	20,826	
8	Consolidated	20,000	50,000	2,000	1,000	73,000	157,714	315,428	388,428	401,769	13,341	
9	Contra Costa	100,000	100,000	2,000	1,000	203,000	342,374	684,748	887,748	1,208,158	320,410	
10	Delta	10,000	20,000	2,000	1,000	33,000	171,371	342,742	375,742	0	(375,742)	
11	Durham	2,000	5,000	2,000	1,000	10,000	8,622	17,244	27,244	4,071	(23,173)	
12	Fresno	10,000	50,000	2,000	1,000	63,000	79,462	158,924	221,924	209,450	(12,474)	
13	Glenn County	2,000	10,000	2,000	1,000	15,000	12,366	24,732	39,732	40,392	660	
14	Greater Los Angeles County	150,000	100,000	2,000	1,000	253,000	800,444	1,600,888	1,853,888	1,470,836	(383,052)	
15	Kings	10,000	20,000	2,000	1,000	33,000	102,270	204,540	237,540	0	(237,540)	
16	Lake County	5,000	20,000	2,000	1,000	28,000	62,747	125,494	153,494	134,308	(19,186)	
17	Los Angeles County West	50,000	50,000	2,000	1,000	103,000	465,146	930,292	1,033,292	705,257	(328,035)	
18	Marin-Sonoma	100,000	100,000	2,000	1,000	203,000	370,666	741,332	944,332	785,674	(158,658)	
19	Napa County	10,000	50,000	2,000	1,000	63,000	82,505	165,010	228,010	1,276,368	1,048,358	
20	Monterey County	5,000	50,000	2,000	1,000	58,000	69,008	138,016	196,016	19,319	(176,697)	
21	Northwest	10,000	50,000	2,000	1,000	63,000	168,238	336,476	399,476	254,923	(144,553)	
22	Orange County	50,000	100,000	2,000	1,000	153,000	811,554	1,623,108	1,776,108	414,847	(1,361,261)	
23	Oroville	2,000	5,000	2,000	1,000	10,000	0	0	0	0	0	
24	Pine Grove	2,000	5,000	2,000	1,000	10,000	5,229	10,458	20,458	31,333	10,875	
25	Placer	2,000	20,000	2,000	1,000	25,000	176,957	353,914	378,914	226,526	(152,388)	
26	Sacramento-Yolo	100,000	100,000	2,000	1,000	203,000	467,682	935,364	1,138,364	1,664,402	526,038	
27	San Gabriel Valley	20,000	100,000	2,000	1,000	123,000	305,436	610,872	733,872	125,453	(608,419)	
28	San Joaquin County	100,000	100,000	2,000	1,000	203,000	255,669	511,338	714,338	427,064	(287,274)	
29	San Mateo County	20,000	50,000	2,000	1,000	73,000	240,234	480,468	553,468	469,114	(84,354)	
30	Santa Barbara County	5,000	10,000	2,000	1,000	18,000	40,579	81,158	99,158	76,453	(22,705)	
31	Shasta	5,000	50,000	2,000	1,000	58,000	134,542	269,084	327,084	243,575	(83,509)	
32	Sutter-Yuba	20,000	50,000	2,000	1,000	73,000	117,261	234,522	307,522	271,031	(36,491)	
33	Tehama County	2,000	20,000	2,000	1,000	25,000	40,454	80,908	105,908	262,027	156,119	
34	Turlock	20,000	50,000	2,000	1,000	73,000	98,012	196,024	269,024	32,038	(236,986)	
35	West Valley	20,000	50,000	2,000	1,000	73,000	160,232	320,464	393,464	304,269	(89,195)	
	Total	953,000	1,565,000	70,000	35,000	2,623,000	6,608,995	13,217,990	15,830,990	12,761,187	(3,069,803)	



Market Value Summary:

	QTD Current Period	Fiscal Year to Date
Beginning Balance	\$1,872,340.73	\$2,018,934.87
Contribution	0.00	0.00
Disbursement	0.00	0.00
Transfer In	0.00	0.00
Transfer Out	0.00	0.00
Investment Earnings	83,100.88	(63,056.65)
Administrative Expenses	(239.28)	(491.49)
Investment Expense	(174.94)	(359.34)
Other	0.00	0.00
Ending Balance	\$1,955,027.39	\$1,955,027.39
FY End Contrib per GASB 74 Para 22	0.00	0.00
FY End Disbursement Accrual	0.00	0.00
Grand Total	\$1,955,027.39	\$1,955,027.39

Unit Value Summary:

	QTD Current Period	Fiscal Year to Date
Beginning Units	123,845,370	123,845,370
Unit Purchases from Contributions	0.000	0.000
Unit Sales for Withdrawals	0.000	0.000
Unit Transfer In	0.000	0.000
Unit Transfer Out	0.000	0.000
Ending Units	123,845,370	123,845,370
Period Beginning Unit Value	15.118373	16.302060
Period Ending Unit Value	15.786034	15.786034

Please note the Grand Total is your actual fund account balance at the end of the period, including all contributions per GASB 74 paragraph 22 and accrued disbursements. Please review your statement promptly. All information contained in your statement will be considered true and accurate unless you contact us within 30 days of receipt of this statement. If you have questions about the validity of this information, please contact CERBT@calpers.ca.gov.

Sacramento-Yolo Mosquito and Vector Control District

February 21, 2023 Board Meeting

1. Items for Approval by General Consent:

d. Board Review and Consideration of Janitorial Services Contract

Staff Report

The District is in the process of looking at various contracts that we have with outside vendors to ensure that we are getting a fair price for the services provided. Staff engaged with 4 different companies to provide janitorial services at both the Bond Road and Woodland locations. A breakdown of the quotes of new services is provided below.

C & S Cleaning Services	2X week	2,200 / Month	No wax services
CleanIT Maintenance Systems	2X week	2,995/ Month	Strip/ wax extra
Legacy Cleaning Services	2X week	3,995/ Month	Strip/ wax extra
Vanguard Cleaning Services	2X week	4,900/ Month	Strip/ wax extra
Current Contractor-Andko	2X week	4,805/ Month	

The District interviewed each company and has decided to pursue a contract with CleanIt Maintenance Systems. The contract would be a month to month agreement in case the District is not satisfied with the service.

Recommendation:

Authorize the Manager to engage in a contract with CleanIt Maintenance Systems to provide janitorial services for the District.

Sacramento-Yolo Mosquito and Vector Control District

February 21, 2023 Board Meeting

3. Reports to the Board

- a. Manager's Report**
- b. Reports from Trustees Attending the Mosquito and Vector Control Association of California (MVCAC) Annual Conference**
- c. Reports from District Departments**
 - **Lab/Surveillance (Sarah Wheeler)**
 - **Ecological Management (Marty Scholl)**
 - **Biological Control (Tony Hedley)**
 - **Larval and Adult Control (Steve Ramos)**
 - **Public Outreach (Luz Maria Robles)**

a. Manager's Report

The weather has started to warm up and we are beginning to see more mosquito activity.

Staff did an excellent job with their presentations at the MVCAC Annual Conference earlier this month. The District gave ten talks at the meeting.

Staff has submitted the National Pollutant Discharge Elimination System (NPDES) Annual Report to the State Water Resources Control Board.

The MVCAC and AMCA are working on organizing their respective Legislative Days. The MVCAC event should be in April and the AMCA event will be in May.

Our Vector Control Joint Powers Authority will be holding their annual workshop on February 23rd and 24th.

Please be advised that you will need to submit your Conflict of Interest Form 700 prior to April 1st, 2023.

b. Reports from Trustees Attending the MVCAC Annual Conference

c. Reports from District Departments

- **Lab/Surveillance (Sarah Wheeler)**
- **Ecological Management (Marty Scholl)**
- **Biological Control (Tony Hedley)**
- **Larval and Adult Control (Steve Ramos)**
- **Public Outreach (Luz Maria Robles)**

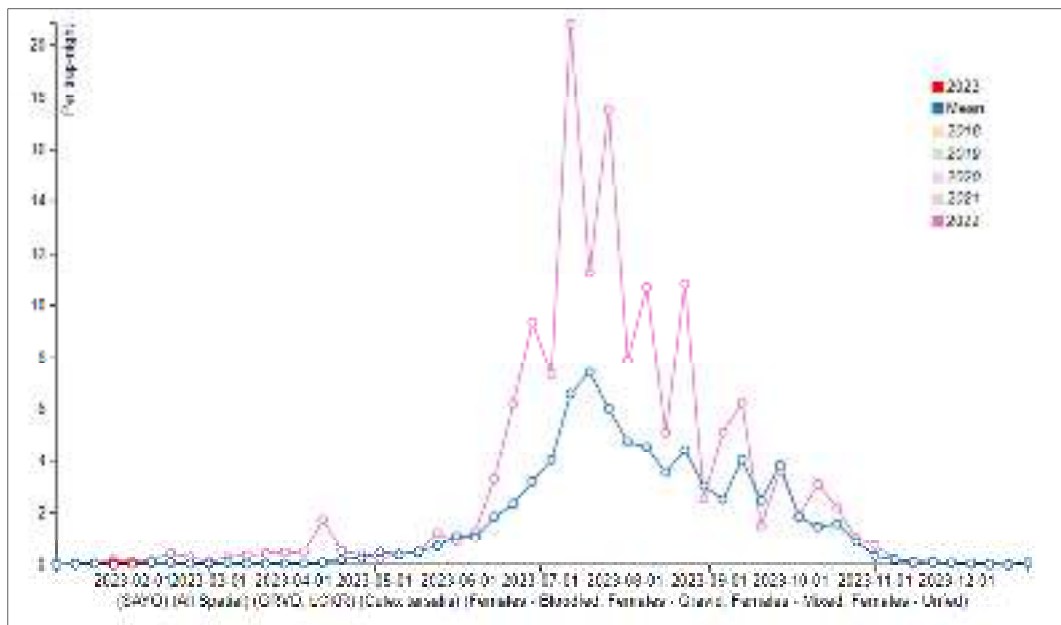
LABORATORY Monthly Report February 2023 Board Meeting

Insectary:

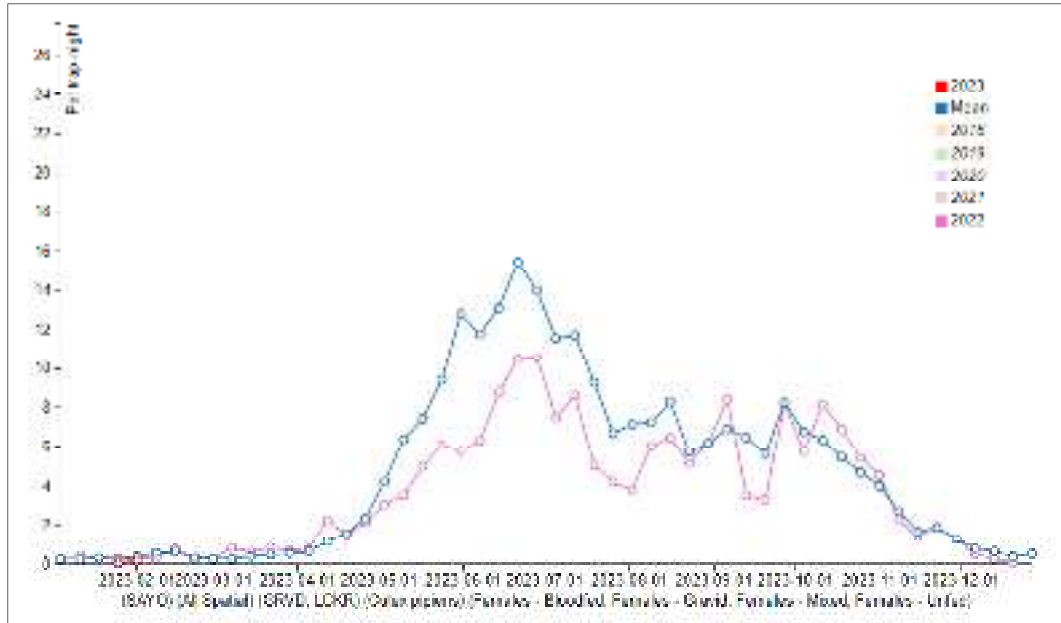
Species	Name	Origin	Resistance Status
<i>Culex tarsalis</i>	KNWR	Kern National Wildlife Refuge (2009)	susceptible
<i>Culex quinquefasciatus</i>	CQ1	Merced, CA (1950s)	susceptible
<i>Culex pipiens</i>	WCP	Woodland, CA (2017)	resistant: pyrethrins/pyrethroids, methoprene, and spinosad
<i>Culex tarsalis</i>	VFCT	Vic Fazio Yolo Wildlife Area (2020)	resistant: pyrethrins/pyrethroids
<i>Culex pipiens</i>		Elk Grove (2022)	status under investigation
<i>Aedes sierrensis</i>		Sonoma County (2016)	susceptible

2023 Surveillance update through 2/9/2023

Weekly mosquito collections – The following graphs show overall *Culex tarsalis* and *Culex pipiens* abundance from gravid traps and locker traps placed in permanent locations throughout Sacramento and Yolo Counties. Heavy rains in early January delayed the restart of this program, all traps are now in operation. Trap counts are currently very low.



Weekly *Culex tarsalis* abundance traps in locker and gravid traps



Weekly *Culex pipiens* abundance traps in locker and gravid traps

Encephalitis virus surveillance (EVS) – This program has concluded for the season and will resume in May 2023

West Nile virus (WNV) testing – Testing will resume in May 2023

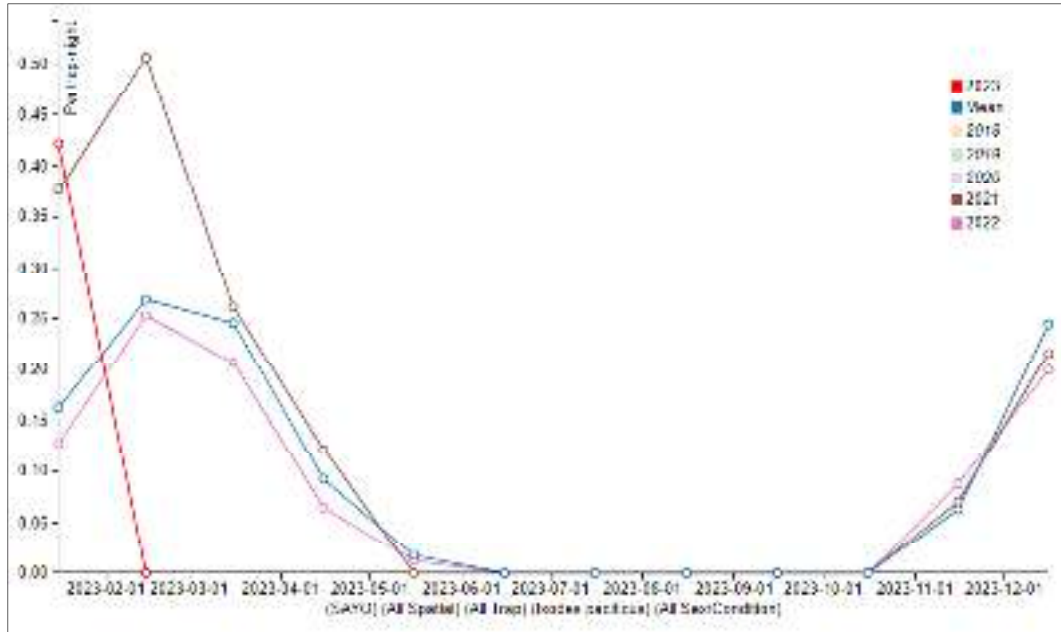
Dead birds – The dead bird program will resume in April 2023

Sentinel chickens – The sentinel chicken program is completed for the year and will resume in April 2023.

Rice Surveillance – Counter traps have been collected from the rice fields. Surveillance will resume in May 2023.

Human disease response surveillance – No new human cases were reported to the District.

Tick surveillance – During January 2023, 19 of the 20 permanent tick sites were visited and flagged for ticks. Cache Creek was not accessible due to construction. *Ixodes pacificus* were collected from 16 sites, and 5 sites had pools that tested positive for *Borrelia burgdorferi*, the causative agent of Lyme diseases. Below is a graph showing *Ixodes pacificus* abundance across all sites over time and a table describing detections of *Borrelia burgdorferi*. January capture rates of *Ixodes pacificus* were higher than the five-year mean, but similar to rates observed in 2021.



Total number of *Ixodes pacificus* collected across all sampling locations; February collection and testing is not included; Tick flagging is not performed June – October.

2022-2023 Season – Detections of *Borrelia burgdorferi*

Year	Month	Location	<i>Ixodes pacificus</i> pools positive for <i>Borrelia burgdorferi</i>		
			Total Collected	Total pools	Positive pools
2022	November	Snipes Pershing	6	2	1
		Willow Creek	10	2	1
		Sacramento Bar	15	3	1
2022	December	East Lake Natoma	65	13	3
		Willow Creek	4	1	1
		Black Miner's Bar	29	6	1
2023	January	Willow Creek	42	9	5
		Willow Creek - Humbug	5	2	1
		Mississippi Bar	19	4	1
		Lower Sunrise	7	2	1
		Upper Sunrise	24	5	1

***Aedes aegypti* trapping effort in Sacramento and Yolo Counties –** Surveillance for invasive *Aedes* will resume in April.

The California Arbovirus Surveillance Bulletin updates will resume in May.

Winter Projects – In addition to mosquito abundance trapping and tick surveillance the laboratory technicians are repairing and constructing new traps and organizing equipment. Our Laboratory Direction, Biologist, and Microbiologist just returned from presenting district work and the MVCAC Annual Meeting, and the Laboratory Director, Biologist, and Vector Ecologist are preparing to present at the AMCA meeting at the end of February.

ECOLOGICAL MANAGEMENT DEPARTMENT
Monthly Report for the February 2023 Board Meeting

Planning Program

Staff reviewed the Bilby Ridge Specific Plan Notice of Intent planning document for the expansion of the City of Elk Grove south of Bilby Rd to the new Kammerer Rd extension. This is a programmatic environmental review with anticipated subsequent planning documents to follow in future years or months.

Eco Projects

Staff have been busy finishing seasonal training, cleaning and preparing trucks and equipment for the upcoming season and making small water-soluble packets of Watersorb for use in the cemeteries again this year.

Following last month's heavy rainfall, staff looked at some of the non-flooded previous and current BMP projects to learn how they performed and to start planning for future maintenance later in the season.

General

Marty participated in the Inspection and Enforcement of Unmaintained Swimming Pools roundtable discussion at the Annual MVCAC Conference held at the end of the month in Anaheim, CA. The discussion focused on new imagery various District programs from across California while providing for audience participation with the roundtable panel.

BIOLOGICAL CONTROL
Monthly Report for February 2023 Board Meeting

In the month of January the Fisheries Department worked on annual training modules and required continuing education training. All fisheries vehicles and water pumps were serviced and made ready for the upcoming season. Predatory exclusion ponds have been checked for holes and extra predatory fence runners have been added to some ponds to deter digging from predators. The Fisheries Department also continues to conduct maintenance around the facility including cleaning and organizing work trucks, utility vehicles, and cleaning the fisheries building. Wet weather in January necessitated running water pumps to keep ponds from overflowing.

.1 pounds of fish were used in the month of January. These fish were used in north Yolo county at a residential pond. Daily activities such as water quality testing, medical treatments and tank cleaning were also performed to maintain high quality fish. The Fisheries department also continued to gather weekly data for all of our ongoing projects including traditional fertilization techniques, crayfish control and the use of solar aerators to maintain dissolved oxygen levels.

Log of Treatment Applied January

<u>Material</u>	<u>AMT</u>	<u>Area Treated</u>	<u>Treatments</u>
Mosquitofish (<i>Gambusia affinis</i>)	.1 lbs	1 Acres	1
Guppies (<i>Poecilia reticulata</i>)	On hold until weather conditions warm up.		

Fisheries Budget

<u>Total Budget</u>	<u>Spent</u>	<u>Remaining</u>	<u>% Spent</u>
36,000.00	13,526.98	22,473.02	38%



Fence runners being installed to exclude digging predators such as otters, raccoons and turtles.

CONTROL OPERATIONS
Monthly Report for February 2023 Board Meeting

Culex and West Nile Virus (WNV) Control

At this time of the year, trap repair and maintenance continues as the lab prepares for the upcoming season. There is no WNV testing currently being performed. Weekly traps are still being utilized to monitor adult mosquito numbers in areas throughout the District.

Annual Training and Calibration

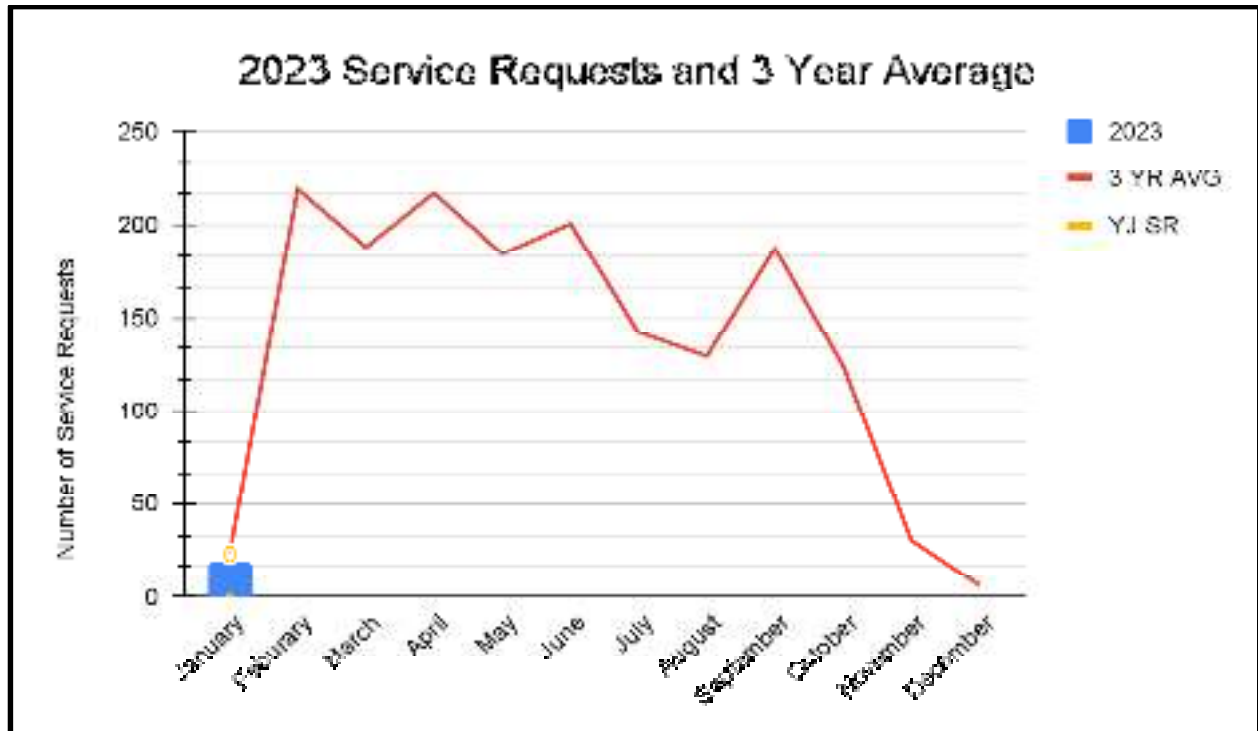
Calibration of application tools such as outboard sprayers, Maruyamas and backpack sprayers is ongoing. All Terrain Vehicle (ATV) calibrations are scheduled to be performed in February. The Districts Program Coordinator will begin calibration on ATV and truck mounted Ultra Low Volume (ULV) sprayers with droplet testing being performed soon after when weather allows. Field Technicians continue to complete the District’s suite of annual training modules. Annual Pesticide training is scheduled for March

Invasive Aedes Control

There were no invasive Aedes detected in any permanent trap areas in the month of January.

Fall and Winter Projects

In house projects continue around the District. Fence repairs around the boundary of the District property in Elk Grove will be performed when weather allows for new fence posts to be set in concrete. Tree trimming companies are being contacted for bids to trim the large pine trees along Bond Road. After all bids are collected a decision will be made on how to move forward with tree maintenance around the District boundaries. Onsite staff have removed many of the trees that fell in the recent storms. Onsite maintenance such as small tree trimming and mulch replacement is ongoing.



PUBLIC INFORMATION AND EDUCATION

Monthly Report for February Board Meeting

Advertising

As part our 2023 Fight the Bite advertising campaign we will once again use our consultant Gary Benjamin to assist in placing the media buys once the advertising plan is approved. We are currently reviewing market data and trends that will help guide a strategy and a final plan in the coming months. We will begin to have meetings with account executives and evaluate their proposals for the upcoming campaign. Due to ongoing detections of invasive mosquitoes later in the season, we will once again extend the advertising buy thru the end of October. Extending the media buy allows for an increase in messages specific to invasive mosquitoes at the height of the season in current known detection areas and in any new areas where they may be detected.

School Program

Our school program continues and the “What Bugs You” assemblies coordinated by Red Shoe Productions are underway at a variety of different schools. In January, one assembly was held for 7 classrooms of 2nd-5th grade children at Tahoe Park Elementary reaching 160 kids.

The following assemblies are currently scheduled:

February:

2/7: Skycrest Elementary in Citrus Heights

2/9: John Cabrillo Elementary in Sacramento

2/10: Taylor Street Elementary in Sacramento

2/15: Gibson Ranch Elementary in Woodland

2/16: Madison Elementary in Sacramento

2/23: Carroll Elementary in Elk Grove

2/24 Fairbanks Elementary in Sacramento

2/28: Stonegate Elementary in West Sacramento

March

3/1: Herman Leimbach Elementary in Sacramento

3/3/ Greer Elementary in Sacramento

2023 Fight the Bite Contest

The 2023 annual Fight the Bite Contest is underway. In preparing for the contest, the flier was updated and sent to all school districts for approval. Once districts approve the flier, it will be disseminated to teachers. The contest will be promoted on social media, thru the school assemblies and by emailing past teachers who have submitted entries as well as contacting schools that participate every year.

Outreach Events

As part of our community outreach and education efforts we are excited and gearing up for the 2023 events season! We are currently gathering applications and putting together a list of

recommended events to attend. Most recently we attended the Galt Bird Festival and it was great to engage with residents and talk about our bird surveillance program and how West Nile virus impacts bird populations. Children and adults loved learning about mosquitoes, mosquitofish and other District services.

Outreach materials

In preparation for the upcoming season, we are currently taking inventory and re-ordering materials that will be distributed at all upcoming events and outreach activities.

MVCAC

A presentation titled “Building EXTRA-ordinary Campaigns: Best Practices to Enhance Fight the Bite Messaging” was given at the recent 2023 MVCAC Conference. In addition, as part of the Public Relations Committee, I am collaborating on photography project and outreach efforts specific to invasive *Aedes*.

Sacramento-Yolo Mosquito and Vector Control District

February 21, 2023 Board Meeting

4. Board Review and Consideration of \$360,000 to Fund the Public Outreach Advertising Plan for the 2023 Mosquito Season

Staff Report:

The District's Public Information and Education Department continues to provide dynamic messaging that is purposely planned and placed to raise awareness of mosquitoes and how we collectively work to prevent and abate the spread of the mosquito transmitted diseases. The District uses a wide array of media tools, events and public outreach to accomplish our communication objectives and explain our important services to a high percentage of the growing number of residents in Sacramento and Yolo counties. We purposely target homeowners, adults with children at home and adults 55 years old and older. The media assets we utilize include television, radio, several digital tools, social media, sponsorships, on-air appearances, news interviews, public service announcements, government affairs, public/community outreach and many community events.

Campaign Overview:

For 2023, the District's Public Information and Education Department has several key elements and objectives.

- We will further enhance awareness of our evolving efforts to protect residents from mosquitoes, and the transmittable diseases that they carry, within the Sacramento and Yolo counties.
- We will purposely use more “new media” tools that enable us to effectively reach our areas of service with geographic targeting improvements and options.
- As in 2022, we will extend our campaign through October to disseminate messages specific to invasive Aedes mosquitoes.
- We will increase the “weight” of our invasive species messaging that help educate our communities and how they can help us identify expansion of these mosquitoes.
- We will develop new creative that further communicates the threat of these mosquitoes, while we explain the extensive steps that our District conducts to protect the communities.
- We will continue to communicate how our communities can participate in the prevention and mitigation of mosquitoes and assist the District in our abatement efforts
- We will also be prepared to alter or enhance our messaging as needed if special circumstances arise during our season.
- The campaign achieves these objectives by purposely utilizing more “digital tools” including television, radio, streaming media outlets and others.

The District will continue to use the most recent syndicated research and other data to deliver our messaging to those residents who are the most vulnerable and have the highest risk of harm.

- This research helps us carefully track and measure the expansion of those adults we purposely target - families with children ages 0-17, and seniors 55+ - with special emphasis on homeowners.
- This research is also used to track and identify the market composition, profile, and geographic distribution of these targets and reveals how their media utility is evolving.
- The research and data is carefully analyzed to help us provide the most effective and efficient media utility and to negotiate the very best rates and costs by comparing a wide range of options.
- Research/data also helps us design a campaign that reaches these adults at the appropriate frequencies.

Our Media utility continues to evolve and adjust based on the shifting of media consumption.

- The research helps reveal to what extent this is occurring based on the demographic profiles we seek to reach, and we select our media accordingly.
- The District will utilize various media tools including paid traditional TV, radio, and outdoor media, and an increasing use of various digital media assets.
- The digital media options continue to grow and therefore we are purposely expanding the use of TV (traditional and On Demand) and Radio (traditional and streaming), and other options.
- We also negotiate extensive added value as part of our negotiations with our media partners that serves to significantly enhance our paid advertising agreements.

As mentioned earlier, the 2023 campaign will allow for flexibility during the season and enable us to extend our traditional messaging season as factors and climate play out. The invasive species are detected at various times in our season, so this plan will purposely provide us the ability to be more proactive.

Campaign Goals:

- Educate and inform the community about mosquitoes, prevention of West Nile virus (WNV) and other vector-borne diseases, paying careful attention to the expansion of invasive mosquitoes and the threats they pose.
- Highlight the District's service and increase public awareness of how individuals can help by draining standing water, using personal protection, and enlisting community support as to the overall importance of how "mosquito control matters and all of us can help".
- Build public trust and enhance our brand by advancing awareness that we are a consistent, reliable and a responsive resource in the community.
- Increase public recognition of the Fight-the-Bite campaign and drive more individuals to our website.

Advertising Creative

Over the last few years we have produced new creative materials and media assets including ads that focus on invasive mosquitoes. This year, we will extend the use of this creative as we also consider further expansion of our brand's portfolio of messages. We will add new creative as needed and make messaging adjustments to make sure we are communicating the most relevant and important information available.

Advertising Strategy

The 2023 campaign will incorporate a mix of several media assets and tools as mentioned earlier. Messaging will focus on the importance of controlling mosquitoes, personal protection, and the ongoing threat of the West Nile virus. We will also include more messaging relating to invasive mosquito species and the importance of being on the lookout for these types of mosquitoes.

TELEVISION:

- Television - both traditional and cable - along with an increased use of digital television will be a strong foundation of the advertising campaign and provide the audio and visual aspect of the messaging strategy.
- There are considerably more people who work from home and the latest research reveals that TV content viewership has increased accordingly.
- We also use ethnic targeted TV with commercials that are produced in Spanish, Vietnamese, Hmong, Mandarin and Russian.
- Sponsorships such as the River Cats broadcast and other special programs will continue to be part of the strategy and help us extend the length of our messaging while tying us more closely to the communities that we serve.
- This year we will also add more use On Demand TV – which allows us to more specifically target the family, senior, and homeowner targets, and place our ads directly into the two counties that we serve. It also increases our overall reach with TV to include the growing number of “cord-cut households”.

RADIO:

- Radio ads will remain a strong element of the campaign and will include programming sponsorships, on-air appearances, interviews, and public service type announcements.
- We also negotiate a significant volume of bonus spot coverage and often use bonus to “fill in” during any off weeks by station.
- Streaming radio listening is growing quickly and will be included as a higher percentage of this year's radio budget.
- Non-English radio is also used in accordance with research of the targets – and includes Spanish and Russian.

DIGITAL MEDIA:

- The consumer use of digital media continues to grow – especially for news and entertainment, as a result, our use of Digital Media will continue to grow.
- This will include an increase in targeted digital platforms and more social media - utilizing Facebook, Twitter, Instagram and Nextdoor.

- We will focus on increasing the number of fans by using Facebook Ads, as we post timely, relevant, interesting, and shareable content. This will increase our exposure to the online community giving the District even higher visibility.
- We will continue to specifically increase our partnership with Nextdoor – focusing on neighborhoods where invasive mosquitoes are found.

TIMING:

- We will debut the advertising campaign during Mosquito Awareness Week in April to kick off the season and we will seek value-added support from our media partners during this time.
- The primary campaign will launch at the end of May as we lead into Memorial Day. This holiday continues to be recognized as the season’s first major outdoor weekend when people are enjoying the outdoors, and messages will focus on the use of repellent for personal protection.
- Beginning in mid-June when the weather starts to get warm and WNV virus activity increases, the campaign weight and the core messaging will increase.
- Television, radio, and outdoor schedules will be more deliberate and then build in reach and frequency as the summer heats up.
- July, August, and September are the peak months of the campaign when virus activity is historically high. The campaign will continue to build through these months and extend longer into October to account for the detection of invasive mosquitoes.
- Heavier messaging will purposely occur especially around Fourth of July, National Night Out and through Labor Day.

VALUE-ADDED:

- As part of our paid advertising negotiations, we obtain a very high volume of value-added advertising and promotion. This includes the aforementioned radio bonus spots and sponsorships, as well as many free public service announcements and bonus coverage.
- We are also offered the opportunity to appear in various Public Affairs shows throughout the season. These shows are hosted by several different stations.
- Media partners also distribute our materials and repellent at many of their station’s promotional events and community appearances and more of that is planned again this year.
- The campaign will also be supported by press releases and the free news coverage that many media partners help us to generate.

Recommendation:

Approve the 2023 Advertising Plan not to exceed \$360,000.

Sacramento-Yolo Mosquito and Vector Control District

February 21, 2023 Board Meeting

5. Board Review of the District's 5-Year Plan

Staff Report:

As background, in January of 2015, the Board was presented with a 5-Year plan of proposed projects to increase efficiency in various Department-specific activities. Development of this plan began in the winter of 2014, when all District Departments began collecting data on their current needs and identified areas for future improvement as well as areas of growth. This brainstorming process broke down core concepts that became the initial draft of the 5-Year Plan. The process was augmented by the formation of an Ad Hoc committee, created at the February 2014 Board meeting, as a means to help guide the Departments in further developing their ideas.

The initial 5-Year Plan concluded in 2019, with several completed projects. The momentum was ongoing, however, and additional projects were added, resulting in the “rolling” 5-Year Plan that currently exists. This Staff Report is an informational summary detailing projects completed in 2022 and new and/or revised projects identified at year end 2022 for the Administration Department (including the Administrative, Information Technology, Geographical Information, Public Information, and Facilities Divisions), Control Operations Department (including the South Sacramento, North Sacramento, North Yolo, South Yolo, Catch Basin, and Aedes Divisions), Ecological Management Department, Biological Control (Fisheries) Department, Laboratory Department, and the Shop/Mechanical Innovation Department.

The 5-Year Plan is the District's fluid, high-level, program document that is designed to guide the District in identifying and addressing advancements, goals, changing regulations, etc., and be adjusted as the needs of the District change. Updates are provided to the Board during the January meeting of each year to highlight those adjustments.

Recommendation: Information Only

5-Year Plan Summary (by Department/Division)

Administration Department / Administrative Division

Manager: Gary Goodman

Assistant Managers: Tony Hedley and Steve Ramos

Administrative Manager: Rebecca Lane

Number of Employees: Six (6) Full-Time

Over the last several years, the Administrative Division of the Administration Department undertook significant software upgrades to improve efficiencies on multiple fronts. For 2023, the Division plans to focus on refining the integration, both among the various software disciplines and the users. As part of this continued refinement, the Administrative Division will be looking at creating workflow efficiencies to streamline processes (including moving toward a paperless environment) to better support internal customers and to increase the capacity of current staffing. Examples of some of the areas targeted include procurement/purchasing (contracts), accounts payable (including the processing of credit card payments), onboarding of new and seasonal employees, self-service of many HR functions for current employees, training platform(s), and internal financial monitoring for purposes of current budget management and proactive budget forecasting.

Administration Department / Information Technology Division

Information Technology Administrator: Dan Fisher

Number of employees: One (1) Full-Time

During 2022, the Information Technology (IT) Division of the Administration Department worked in partnership with Control Operations' Catch Basin Division Supervisor in creating an established Catch Basin application using AppSheet to list and collect data on all existing Catch Basins within District boundaries. The AppSheet application shows potential for use in other Departments/Division, such as the Aedes program, Shop/Mechanical Innovation, as well as other internal processes. 2023 will focus on utilizing the AppSheet application to assist other Departments/Divisions. The District's Departments are expanding, thus increasing IT needs. This increase has resulted in the use of outsourced professional services, which continues to be an ongoing need of the District. Examples of outsourced services include aid in server and network updates and maintenance and IT security. Ultra-Low Volume (ULV) software for ground fleet is also being explored, with a 2023 focus on testing new software to evaluate ease of integration with existing software. A 2024 goal is to implement, deploy, and evaluate this software advancement. IT is also focusing on expansion of the District's training software, to improve its presentation of videos and/or written training programs, for training that would include security, Mapvision/AppSheet, and miscellaneous Department-based training. Finally, in conjunction with relative Departments, IT is continually evaluating customer service-based technology, such as online forms, service request scheduling, and the dissemination of public outreach notifications, such as spray notification, pool-related notifications, etc.

Administration Department / Geographic Information Systems Division

Geographic Information Systems Coordinator: Ruben Rosas

Number of Employees: One (1) Full-Time

Updates to the Districts California National Diversity Database (CNDDDB) will begin in 2023 with the addition of pictures and descriptions. This update will be ongoing and is expected to be completed in one to two years. Geographic Information Systems (GIS) is always looking for mapping tools to help staff in the field and this upcoming year will continue the search for tools that will be beneficial for staff in the field. The benefits of remote sensing technology, such as NearMap, will continue to be explored. This new technology may support the District's Pool Program with the identification of green pools. The development of heatmaps, creating a visualization of different data, is ongoing and will continue to be improved. The database clean-up relating to organic agricultural areas is ongoing and will continue through 2023.

Administration Department / Public Information Division

Public Information Officer: Luz Maria Robles

Number of Employees: One (1) Full-Time

The evaluation of outreach materials is an ongoing responsibility of this Division. As detections of invasive Aedes species continue, Public Information will work on developing materials more specific to invasive mosquito species and the communities affected. Targeted education material, event displays, and handouts will be geared toward West Nile Virus (WNV) vectors, as well as invasive Aedes mosquitoes and the potential for sterile insect technique (SIT) options the District may utilize. A stronger digital media presence continues to prioritize the District's message, utilizing social media platforms such as Instagram, Facebook and Twitter to reach a broader audience. Additionally, providing community-focused sharing of information is accomplished through sites like NextDoor. The Division contracted with Red Shoe Productions to roll out school assembly programs to the various schools in the District's service area. Evaluation of the value and effectiveness of this contract is ongoing with the potential for expanded services. In conjunction with IT, development of a mobile application to request services is underway, with the goal of streamlining the public's ability to request services and educational presentations (e.g., schools, businesses, or group functions). Website upgrades and updates are scheduled to take place by the end of 2024. Expansion of the District's Mosquito Repellent Distribution Program continues with local partnerships for this Program including Parks and Recreation Departments, community Sports leagues, homeless organizations, and city entities.

Administration Department / Facilities Division

Overseen by Assistant Managers: Steve Ramos and Tony Hedley

No Assigned Employees

During 2022, the District addressed security needs by implementing lock boxes for the storage of vehicle keys at the end of the day to add an additional layer of securing our vehicles. Office space needs will continue to be assessed in 2023. The District is expanding, including the addition of the Aedes Urban Team, and evaluations will continue to be made on how best to organize the existing floor plans while considering options for additional buildings and/or workspaces during the re-organization. Also in 2022, the District switched waste management companies and added

an additional large dumpster to accommodate the needs of expanding operations. This addition came at very little extra cost but has shown to be valuable in serving the District's needs. The District installed two sets of slip resistant safety stairs with handrails for use near the pesticide building and another set was added to the library. The District will be looking to evaluate the need to repave the properties as wear and cracks develop.

Control Operations Department

North Sacramento Division

South Sacramento Division

North Yolo Division

South Yolo Division

Catch Basin Division

Aedes Division

Field Supervisors: Kevin Combo, Demetri Dokos, Brett Day, Will Hayes, Ryan Wagner, David Smith

Number of Employees: 38 Full-Time

Control Operations currently has six (6) Divisions. Many projects and plans are ongoing and expanding (i.e., inventory tracking is completed but has been expanded to include pesticide inventory). Control Operations continually evaluates both new products and technologies to become more efficient in the field and address how the District can improve and expand its services. Control Operations continues to evaluate VectoPrime FG, manufactured by Valent Biosciences. Vectoprime FG is a small granular product; two advantages of this product are that it is a small granular capable of penetrating through dense vegetation and it combines two active ingredients, shown to be effective at lower rates than the products that we have traditionally used. Another product that was tested in the field is the ground-based adulticide Fyfanon EW. Control Operations evaluated this product as a rotational tool for use to maintain the limited adulticide active ingredients available for adult mosquito control. On the equipment front, Control Operations put into use the new CanAm Utility Terrain Vehicle (UTV) combined with the Cobra A-1 mist blower. This setup has proven to be an operationally useful tool.

The Catch Basin Department (CB) has identified breeding in the pipes connected to the storm drains and will investigate the misting of larvicides in underground systems. This technology has been successfully used by a few Districts in Southern California. Control Operations/CB will be collaborating with the Laboratory to validate this technology in our area. CB also developed a program using AppSheet to manage the data they collect on a daily basis. The goal moving forward is to expand the in-house app concept to Aedes, Laboratory, Shop/Mechanical Innovation, Administration (including training), and as a potential MapVision alternative (a potential two and a half to three year process). In-House Training Videos (extended through next winter.) will focus on spray equipment (adulticides and larvicides), source inspections/treatments, interacting with residents with bad pools, pool treatments, the notice process, etc.

Ecological Management Department

Ecological Management Supervisor: Marty Scholl (2022); Kevin Combo (2023)

Number of Employees: Three (3) Full-Time

Ecological Management (Eco) is looking to further integrate our Best Management Practices (BMPs) with our Integrated Pest Management (IPM) plan. Increased integration of BMPs is ongoing and essential as the counties we serve continue to develop and the landscape changes. The enforcement and warrant process has become a major component of Eco's daily tasks. Utilization of new enhanced aerial imagery has better informed the District relative to green pools within District boundaries. To streamline the enforcement process, Eco will begin integrating its workflow more closely with GIS and IT partnerships. Collaboration with local code enforcement officers are being established to help gain access to properties with green pools, as well. The District utilizes Unmanned Aerial Vehicles (UAV), or drones, for photogrammetry, a valuable tool in assessing the size and impact of many mosquito breeding sites and will continue to stay up to date with continually-changing regulatory and licensing requirements for the District's four (4) licensed pilots. Currently, any UAV pesticide applications are performed by outside vendors. This will continue and the District will be transferring UAV operations to the Program Coordinator position. In compliance with the California Air Resources Board Off-Road diesel emissions requirements, Eco will continue to explore retrofitting available equipment and will surplus the vehicles that cannot be retrofitted to meet the requirements. This evaluation will continue through 2026. Continuous updating the District's BMP manual, with staff edits and stakeholder review, to reflect current policies. In 2023, staff will be working with waterfowl industry partners to document wetland practices. Efforts to develop planning and environmental response programs that can be implemented into new construction within District boundaries will continue, with partnership in MVCAC's regulatory affairs committee helping to define goals for this process going forward.

Shop / Mechanical Innovation Department

Shop Supervisor: Thomas Price

Number of Employees: Three (3) Full-Time

The Shop continually looks at the status of the District fleet and makes changes when required. This upcoming year the Shop will evaluate the need for new All-Terrain Vehicles (ATVs) for Control Operations to enhance the suite of vehicles available to our Field Technicians and the Districts seven right hand drive Jeeps for the CB program have been put into the field and have proven to be valuable. In 2022 the purchase of one (1) Can-Am UTV capable of hauling our Cobra A1 unit proved to be very time efficient. In 2023, the Shop will again get estimates to purchase an additional Can-Am UTV. Vehicle outfitting and enhancement is also under the purview of the Shop. One of the bigger projects that the Shop has undertaken is replacing the gas pumps that power the larvicide spray tanks to electronic ones. The electronic pumps are smaller which affords Field Technicians more storage space in the bed of their trucks without sacrificing power. Another large project that is slated for completion this spring is the retrofitting of the right hand drive Jeeps. The modifications to the Jeeps are ongoing as needs are recognized. The Mechanics in the Shop have created and built several unique modifications for these Jeeps that will make them very efficient in the field.

Lastly, the Shop has been evaluating converting our current fueling methods (*i.e.*, into acquiring fuel cards to be used at any available fueling facility). This will cut down on any fuel delivery delays and delivery charges. We would still keep a small amount of fuel onsite to fuel ATVs, fuel cans, and outboard motors.

Biological Control (Fisheries) Department

Fisheries Supervisor: Currently Open

Number of Employees: Three (3) Full-Time

An ongoing goal of Biological Control (Fisheries) is to increase the District's production of the mosquitofish *Gambusia affinis*, increasing yields from our ponds while having the proper predatory exclusions. Another ongoing goal is to have all the District's earthen ponds fenced off. In 2022, the District saw a noticed increased mosquitofish production in the additional ponds that had installed predatory exclusion fencing. As a result, increasing the number of fenced ponds until all of the District's ponds are completed will be a priority. Of concern, however, is the lack of genetic diversity in the mosquitofish population. In the past, Fisheries has engaged in mosquitofish exchanges with other Districts in our region to help increase the genetic diversity in our population (has recently gone out to outside sources to achieve the same), and would like to establish a Fish Exchange Program with Districts from Southern California to bring diversified genetic stock into the population we rear on-site.

Laboratory Department

Laboratory Director: Sarah Wheeler

Supervisors: Debbie Dritz (Vector Ecologist) and Mario Novelo Canto (Biologist)

Number of Employees: 12 Full-Time

During 2022, the Laboratory transitioned to using Mapvision as their data management system. The District is looking at both internal and external solutions where vendors can contribute to more efficient means of recording and visualizing the granular data that is collected through *Aedes aegypti* surveillance. The Laboratory will continue resistance testing with the District's two main adulticide products, and *Culex pipiens* and *Culex tarsalis* populations collected throughout the District will be examined. Resistance data will be uploaded in CalSurv to be used as a resource for the vector control community. In 2021, the Laboratory made improvements to its suite of microscopes. The need for at least one more microscope and fiber optic lighting remains. This replacement is estimated to be completed in 2023. The Laboratory office area will be enhancing their workspace to create more collaborative information exchanges. In 2022, the District acquired a Senecio mosquito counting and pooling robot. Focus during 2022 was on collecting training data to ensure that the robot accurately identified target species. The robot will be integrated into the Laboratory workflow in 2023. Since the introduction of *Aedes aegypti* into Sacramento County in 2019 the District has investigated the suitability of a sterile insect technique (SIT) program. Regulatory issues have slowed the implementation of some SIT options, but we continue to assess District needs and the utilization of potential SIT strategies. The need for one more Lab-dedicated truck will be addressed in 2023. Staffing needs in the Laboratory will continue to be assessed as workflow for lab trapping and identification continue to evolve with invasive aedes now in the District boundaries.