

SACRAMENTO-YOLO  
MOSQUITO & VECTOR  
CONTROL DISTRICT

MAY 21, 2019

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  
May 21, 2019  
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](http://www.fightthebite.net).*

**CALL TO ORDER:**

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

1. **Items for Approval by General Consent:**
  - a. **Minutes of the April 17, 2019 Board of Trustees Meeting**
  - b. **Expenditures for April 2019**
  - c. **District Investment Report for Period Ending March 31, 2019**
  - d. **Board Review and Consideration of a Temporary Work Assignment for Up to Two Months**
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 AMCA Washington Day**
  - c. **Reports from District Departments**
    - **Lab/Surveillance**
    - **Ecological Management**
    - **Biological Control**
    - **Larval and Adult Control**
    - **Public Outreach**

4. **Board Review and Discussion of District Plan for 2019 Rice Larvicide Applications and Aerial Adulticiding Program**
5. **Board Review and Discussion of Draft District Budget for 2019-2020**
6. **Board Review and Consideration of Supporting the AMCA Research Foundation in the Amount of \$50,000**
7. **Closed Session- Provide Instruction to Designated Labor Representatives (Gov. Code s. 54957.6-Labor Negotiations)**  
**Agency Designated Representatives : [Gary Goodman, Janna McLeod, Samer Elkashef, Chris Voight]** **Employee Organization: [Operating Engineers Local Union #3]**
8. **Board/Staff Reports and Requests**
9. **Adjournment**

# **Sacramento-Yolo Mosquito and Vector Control District**

## **May 21, 2019 Board Meeting**

### **1. Items for Approval by General Consent:**

- a. Minutes of the April 17, 2019 Board of Trustees Meeting;
- b. Expenditures for April 2019;
- c. District Investment Report for Period Ending March 31, 2019;
- d. Board Review and Consideration of a Temporary Work Assignment for Up to Two Months.

### **Recommendation:**

**Approve the Items by General Consent**

**MINUTES OF THE APRIL 17, 2019  
SPECIAL MEETING OF THE BOARD OF TRUSTEES OF THE  
SACRAMENTO-YOLO MOSQUITO & VECTOR CONTROL DISTRICT**

PLACE: 8631 Bond Road, Elk Grove, CA 95624  
TIME: 10:00 a.m.

**TRUSTEES PRESENT:**

|                       |                |                   |
|-----------------------|----------------|-------------------|
| Raymond LaTorre       | President      | Sacramento        |
| Jayna Karpinski-Costa | Vice President | Citrus Heights    |
| Christopher Barker    |                | Davis             |
| Raul DeAnda           |                | West Sacramento   |
| Sean Denny            |                | Woodland          |
| Bruce Eldridge        |                | Yolo County       |
| Frederick Goethel     |                | Galt              |
| Lyndon Hawkins        |                | Elk Grove         |
| Gar House             |                | Winters           |
| Susan Maggy           |                | Sacramento County |
| Robert McGarvey       |                | Rancho Cordova    |

**TRUSTEES ABSENT:**

|                 |           |         |
|-----------------|-----------|---------|
| Craig Burnett   | Secretary | Folsom  |
| Rosemarie Moore |           | Isleton |

**LEGAL COUNSEL:**

Joshua Horowitz

**STAFF PRESENT:**

|                  |                                  |
|------------------|----------------------------------|
| Gary Goodman     | Manager                          |
| Samer Elkashef   | Assistant Manager                |
| Marty Scholl     | Ecological Management Supervisor |
| Steven Ramos     | Program Coordinator              |
| Luz Maria Robles | Public Information Officer       |
| Tony Hedley      | Fisheries Supervisor             |

**CALL TO ORDER**

The meeting was called to order at 10:00 a.m. by President Raymond LaTorre.

**Roll Call**

Trustee Christopher Barker arrived to the meeting at 10:02am with a quorum present.

**Pledge of Allegiance**

*All phones and electronic devices are requested to be silenced during the meeting.*

**1. ITEMS FOR APPROVAL BY GENERAL CONSENT**

On a motion by Trustee Goethel and seconded by Trustee Denny the Board voted to approve General Consent Items A and B. The motion passed by the following vote: Ayes: 11, Noes: 0, Absent: 2. On a motion by Trustee Maggy seconded by Trustee Denny the Board voted to approve General Consent Item C as a separate vote. The motion passed by the following vote: Ayes: 10, Noes: 0, Absent: 2 and with Trustee Goethel Abstaining from the vote. Once the vote was complete General Manager Gary Goodman presented Trustee Goethel with a plaque commemorating his years of service.

- a. Minutes of the March 19, 2019 Board of Trustees Meeting;
- b. Expenditures for March 2019;
- c. Board Consideration of Resolution Honoring Fred Goethel for His Years of Service.

## **2. OPPORTUNITY FOR PUBLIC COMMENT**

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

There were none.

## **3. REPORTS TO THE BOARD**

### **a. Manager's Report:**

Mosquito awareness week commenced April 21st and the District will be very active promoting the event with the school Fight the Bite contest winner announcements and repellent distribution to the local homeless shelters. Mosquito awareness week coincides with temperatures in the 80s making it a very busy week for the District as a whole. The MVCAC Legislative Day was held on April 3<sup>rd</sup> with Gary Goodman, Samer Elkashef and Trustee Sean Denny in attendance. Visits were made to the local elected officials with messaging focusing on AB 320 that would put the CalSurv Gateway into legislative statute. Other topics discussed were the use of drones for mosquito control as well as ongoing issues with invasive mosquitoes. In April, the District hosted attendees from the International Visitor Leadership Program which was coordinated by the US State Department. The attendees were all public health workers from over 20 different countries. District staff did an excellent job giving various presentations on the activities performed by the District and answering questions. AMCA Washington Day will be May 13<sup>th</sup> to the 16<sup>th</sup> with Gary Goodman and Trustee Denny in attendance. This year the topics of concern are NPDES, pesticide labeling concerns, Endangered Species Act concerns, and federal funding for public health.

### **b. Reports from MVCAC Legislative Day:**

Trustee Sean Denny attended and noted the importance of MVCAC's continued presence at the legislature as a reminder of the importance of the work vector control districts perform to protect public health.

**c. Reports from District Departments:** Written reports were provided in the Board packet from each department. Department supervisors gave an oral presentation and were available to answer any questions.

**Lab/Surveillance:** Laboratory Director, Marcia Reed submitted a written report with the Board packet. Manager Goodman brought up that overnight mosquito trapping has started and that the

dead bird hotline opened as of April 15<sup>th</sup>. To date, the District has picked up 3 dead birds from the City of Davis.

**Ecological Management:** Ecological Management Supervisor, Marty Scholl discussed department activities including Stormwater/Drainages, the Wetland Program, the Pool Program, UAS Program and the Planning Program. The Department has been busy reviewing Mosquito Management Plans from the City of Folsom and the White Rock Springs Ranch Project. Marty will be presenting vector control use of UAVs on April 24th at the Small Unmanned Systems Business Expo.

**Biological Control:** Fisheries Supervisor, Tony Hedley reported on department activity including servicing equipment, repairing nets, and fish usage. Up to 148 lbs has been used for spring sources so far this season. Technicians have started to move fish from netted ponds to open ponds. The Fisheries Department has completed two large fish plants to date, both in Madison.

**Larval and Adult Control:** Program Coordinator, Steve Ramos noted that Service Requests have increased with the rise in temperatures. The number of larval treatments has increased due to the breeding sources that have been left behind from the late spring rains that the District has experienced. The late rains have also left the rice acreage for the season up in the air as growers haven't had the opportunity to prepare their fields.

**Public Outreach:** Public Information Officer, Luz Robles discussed the activities that are being planned for Mosquito Awareness Week. There will be an article in the Sacramento Bee and several TV and radio stories covering the event. The winners of the annual Fight the Bite contest will be announced and repellent will be handed out to the homeless community at Loaves and Fishes. Manager Goodman and Assistant Manager Elkashef will be giving presentations to the Board of Supervisors and the City Councils within the next couple of months.

#### **4. BOARD REVIEW AND CONSIDERATION FOR RENEWAL OF FARM AIR CONTRACT FOR AERIAL LARVICIDING SERVICES**

Manager Goodman introduced this item. Farm Air has been very responsive to the District's needs performing aerial larviciding. Their price is going up from \$1175 per hour to \$1250, however this price is still very reasonable. The new contract is for a four year term. On a motion by Trustee Goethel, seconded by Trustee Denny, the Board voted to approve the new Farm Air contract. The motion passed with a vote of Ayes: 10, Noes: 0, Absent: 2.

#### **5. BOARD REVIEW AND CONSIDERATION FOR RENEWAL OF LEADING EDGE CONTRACT FOR AERIAL LARVICIDING SERVICES BY UAS**

Last season the District worked with Leading Edge on drone applications. Ecological Management Supervisor Scholl and his staff evaluated these applications and would like to expand the use of drones at the District. Drone applications show promise in wetlands, dairies, pastures and other hard to access locations. The District is looking to enter a three year agreement with Leading Edge. On a motion by Trustee Goethel, seconded by Trustee Denny, the Board voted to approve the new Leading Edge contract. The motion passed with a vote of Ayes: 10, Noes: 0, Absent: 2.



**6. BOARD REVIEW AND CONSIDERATION FOR PURCHASE OF 1000 GALLONS OF DELTAGARD FROM ADAPCO**

During the 2018 season the District performed ground based trials using Deltagard, a ULV adulticide containing 2% deltamethrin, and found that it had much higher efficacy than the currently used adulticides. Based on this Program Coordinator Steve Ramos and Assistant Manager Samer Elkashef worked out some projections on what the District would need for use in the 2019 season. Manager Goodman noted that there was a misprint on the item. The ADAPCO program is a two year program, not a three year one. On a motion by Trustee Goethel, seconded by Trustee Denny, the Board voted to approve the ADAPCO contract for two years. The motion passed with a vote of Ayes: 10, Noes: 0, Absent: 2.

**4. CLOSED SESSION- PROVIDE INSTRUCTION TO DESIGNATED LABOR REPRESENTATIVES (GOV. CODE S. 54957.6-LABOR NEGOTIATIONS) AGENCY DESIGNATED REPRESENTATIVES: [GARY GOODMAN, JANNA MCLEOD, SAMER ELKASHEF, CHRIS VOIGHT] EMPLOYEE ORGANIZATION: [OPERATING ENGINEERS LOCAL UNION #3]**

Before the meeting went into Closed Session, Union Representative Felix Huerta thanked the District for exploring Interest Based Bargaining as a new means of negotiation. President LaTorre adjourned the Regular meeting to go into Closed Session at 11:08 am. The Board returned from closed session and re-opened the regular meeting at 11:48 am with nothing to report.

**5. BOARD/STAFF GENERAL DISCUSSION**

This was Trustee Goethel's last meeting as a member of the Board.

**6. ADJOURNMENT**

The meeting adjourned at 11:51 am.

\* \* \* \* \*

I certify that the above minutes substantially reflect the general business and actions taken by the Board of Trustees at the April 17, 2019 meeting.

---

Gary Goodman, Manager

Approved as written and/or corrected by the Board of Trustees at the May 21, 2019 meeting.

---

Craig Burnett, Board Secretary

**April 2019 Check Register**  
**Activity From: 4/1/2019 to 4/30/2019**  
**Sacramento Yolo MVCD (SYC)**

| Check<br>Number             | Check<br>Date | Vendor<br>Number | Name                                 | Check     |
|-----------------------------|---------------|------------------|--------------------------------------|-----------|
| <b>Bank Code:</b> U US Bank |               |                  |                                      |           |
| 052656                      | 4/10/2019     | 0000504          | US Bank                              | 22,702.09 |
| 052657                      | 4/11/2019     | 0000006          | Adapco Inc                           | 82,662.95 |
| 052658                      | 4/11/2019     | 0000018          | ANDKO Building Maintenance Inc.      | 2,777.94  |
| 052659                      | 4/11/2019     | 0000034          | AutoZone Inc                         | 207.62    |
| 052660                      | 4/11/2019     | 0000038          | Bartkiewicz Kronick & Shanahan       | 870.00    |
| 052661                      | 4/11/2019     | 0000039          | Batteries Plus                       | 193.68    |
| 052662                      | 4/11/2019     | 0000048          | Bio Quip Products                    | 662.32    |
| 052663                      | 4/11/2019     | 0001011          | Buckmaster Office Solutions          | 772.28    |
| 052664                      | 4/11/2019     | 0000073          | CA Dept of Public Health             | 224.00    |
| 052665                      | 4/11/2019     | 0001019          | Cintas Corporation                   | 1,798.32  |
| 052666                      | 4/11/2019     | 0000117          | City of Woodland                     | 320.54    |
| 052667                      | 4/11/2019     | 0000126          | Complete Welders Supply Inc          | 779.10    |
| 052668                      | 4/11/2019     | 0000128          | Consolidated Communications          | 2,531.66  |
| 052669                      | 4/11/2019     | 0001037          | Elite Supply Source                  | 475.18    |
| 052670                      | 4/11/2019     | 0000186          | Elk Grove Water District             | 515.25    |
| 052671                      | 4/11/2019     | 0000200          | Fastenal Company                     | 29.72     |
| 052672                      | 4/11/2019     | 0000202          | Ferrellgas                           | 20.94     |
| 052673                      | 4/11/2019     | 0000240          | Hunt & Sons Inc                      | 3,214.19  |
| 052674                      | 4/11/2019     | 0000277          | Kimball Midwest                      | 624.25    |
| 052675                      | 4/11/2019     | 0000286          | Leading Edge Associates Inc          | 21,300.00 |
| 052676                      | 4/11/2019     | 0000320          | Mettler Toledo Rainin LLC            | 3,034.39  |
| 052677                      | 4/11/2019     | 0000356          | OReilly Automotive Stores Inc        | 452.66    |
| 052678                      | 4/11/2019     | 0000367          | PG & E                               | 1,698.45  |
| 052679                      | 4/11/2019     | 0001235          | Qiagen                               | 322.38    |
| 052680                      | 4/11/2019     | 0000388          | Republic Services #922               | 33.39     |
| 052681                      | 4/11/2019     | 0000424          | Safe Side Security                   | 1,048.50  |
| 052682                      | 4/11/2019     | 0000448          | Sigma-Aldrich Inc                    | 490.96    |
| 052683                      | 4/11/2019     | 0000451          | SMUD                                 | 2,888.55  |
| 052684                      | 4/11/2019     | 0000454          | Spark Creative Design                | 3,290.42  |
| 052685                      | 4/11/2019     | 0000937          | Staples Business Advantage           | 356.07    |
| 052686                      | 4/11/2019     | 0001234          | T-Mobile                             | 230.59    |
| 052687                      | 4/11/2019     | 0000475          | Target Specialty Products            | 6,995.61  |
| 052688                      | 4/11/2019     | 0000500          | United Parcel Service                | 57.28     |
| 052689                      | 4/11/2019     | 0000502          | Univar Inc                           | 2,800.15  |
| 052690                      | 4/11/2019     | 0000505          | US Bank Equipment Finance            | 102.36    |
| 052691                      | 4/11/2019     | 0000517          | Vector Control Joint Powers Agency   | 229.00    |
| 052692                      | 4/11/2019     | 0000518          | Vector Disease Control International | 50,000.00 |
| 052693                      | 4/11/2019     | 0000519          | Vector Laboratories Inc              | 1,107.12  |
| 052694                      | 4/11/2019     | 0000520          | Vector Test Systems Inc              | 358.69    |
| 052695                      | 4/11/2019     | 0000522          | Verizon Wireless                     | 2,965.03  |
| 052696                      | 4/11/2019     | 0000526          | VWR International Inc                | 1,744.70  |
| 052697                      | 4/11/2019     | 0000529          | Waste Management                     | 170.59    |
| 052698                      | 4/17/2019     | 0000083          | CA Department of Tax and Fee         | 766.00    |
| 052699                      | 4/17/2019     | 0000141          | CSAC Excess Insurance Authority      | 490.44    |
| 052700                      | 4/17/2019     | 0000267          | Kaiser Foundation Health Plan        | 18,822.70 |

|        |           |         |   |           |
|--------|-----------|---------|---|-----------|
| 052701 | 4/17/2019 | 0000267 | Kaiser Foundation Health Plan             | 1,447.90  |
| 052702 | 4/17/2019 | 0000267 | Kaiser Foundation Health Plan             | 2,171.85  |
| 052703 | 4/17/2019 | 0000267 | Kaiser Foundation Health Plan             | 18,636.27 |
| 052704 | 4/17/2019 | 0000373 | Preferred Benefit Ins Administrators      | 8,212.60  |
| 052705 | 4/17/2019 | 0000957 | Sutter Health Plus                        | 6,862.32  |
| 052706 | 4/17/2019 | 0000531 | Western Health Advantage                  | 5,081.44  |
| 052707 | 4/17/2019 | 0000531 | Western Health Advantage                  | 7,135.79  |
| 052708 | 4/22/2019 | 0001253 | Amar Jain                                 | 50.00     |
| 052709 | 4/22/2019 | 0001256 | Daniel Grachev                            | 75.00     |
| 052710 | 4/22/2019 | 0001268 | Delta High School                         | 150.00    |
| 052711 | 4/22/2019 | 0001265 | Elverta Elementary                        | 150.00    |
| 052712 | 4/22/2019 | 0001259 | Emily Luu                                 | 100.00    |
| 052713 | 4/22/2019 | 0001263 | Folsom Middle School                      | 400.00    |
| 052714 | 4/22/2019 | 0001267 | Foothill Senior High School               | 400.00    |
| 052715 | 4/22/2019 | 0001264 | Golden Empire Elementary                  | 200.00    |
| 052716 | 4/22/2019 | 0000231 | Harriet Eddy Middle School                | 100.00    |
| 052717 | 4/22/2019 | 0000232 | Helen Carr Castello                       | 100.00    |
| 052718 | 4/22/2019 | 0001254 | Jaden Song                                | 200.00    |
| 052719 | 4/22/2019 | 0001258 | Jennifer Olivares                         | 200.00    |
| 052720 | 4/22/2019 | 0001260 | Jennifer Orozco-Correa                    | 75.00     |
| 052721 | 4/22/2019 | 0001261 | Jocelyn Ortega                            | 50.00     |
| 052722 | 4/22/2019 | 0001250 | Khloe Lopez                               | 200.00    |
| 052723 | 4/22/2019 | 0000310 | Marengo Ranch Elementary                  | 200.00    |
| 052724 | 4/22/2019 | 0000326 | Monterey Trail High School                | 200.00    |
| 052725 | 4/22/2019 | 0001252 | Nihira Chilumuru                          | 75.00     |
| 052726 | 4/22/2019 | 0001262 | North Country Elementary                  | 400.00    |
| 052727 | 4/22/2019 | 0001257 | Nubia Jimenez                             | 50.00     |
| 052728 | 4/22/2019 | 0001266 | Parkway Elementary                        | 100.00    |
| 052729 | 4/22/2019 | 0000435 | Sandra J Gallardo                         | 150.00    |
| 052730 | 4/22/2019 | 0001251 | Siena Ignacio                             | 100.00    |
| 052731 | 4/22/2019 | 0001255 | Thadeus Kim                               | 100.00    |
| 052732 | 4/24/2019 | 0000014 | Alhambra & Sierra Springs                 | 209.03    |
| 052733 | 4/24/2019 | 0000126 | Complete Welders Supply Inc               | 609.05    |
| 052734 | 4/24/2019 | 0000167 | Dignity Health Med Fdtn-Woodland          | 196.00    |
| 052735 | 4/24/2019 | 0000168 | Dignity Health Med Fdtn-Sacramento        | 1,314.00  |
| 052736 | 4/24/2019 | 0000979 | Filipino Fiesta of Sacramento c/o Joe     | 75.00     |
| 052737 | 4/24/2019 | 0000958 | GreatAmerica Financial Services           | 372.82    |
| 052738 | 4/24/2019 | 0001233 | Grow West                                 | 30.51     |
| 052739 | 4/24/2019 | 0000240 | Hunt & Sons Inc                           | 4,930.92  |
| 052740 | 4/24/2019 | 0000299 | Luken Benjamin Associates                 | 8,000.00  |
| 052741 | 4/24/2019 | 0000320 | Mettler Toledo Rainin LLC                 | 388.80    |
| 052742 | 4/24/2019 | 0000367 | PG & E                                    | 1,151.84  |
| 052743 | 4/24/2019 | 0001270 | Rubicon Global, LLC                       | 422.39    |
| 052744 | 4/24/2019 | 0000404 | Sac Metro Air Quality Management District | 1,145.00  |
| 052745 | 4/24/2019 | 0000413 | Sacramento County Utilities               | 960.54    |
| 052746 | 4/24/2019 | 0000454 | Spark Creative Design                     | 2,077.46  |
| 052747 | 4/24/2019 | 0000461 | Stericycle Inc                            | 77.20     |
| 052748 | 4/24/2019 | 0000502 | Univar Inc                                | 37,712.50 |
| 052749 | 4/30/2019 | 0000043 | Benefit Coordinators Corporation          | 3,348.28  |
| 052750 | 4/30/2019 | 0000084 | CA State Disbursement Unit                | 350.00    |
| 052751 | 4/30/2019 | 0000339 | Nationwide Retirement Solutions           | 6,175.00  |
| 052752 | 4/30/2019 | 0000339 | Nationwide Retirement Solutions           | 1,300.00  |
| 052753 | 4/30/2019 | 0001035 | Operating Engineers Local Union No. 3     | 1,197.00  |
| 052754 | 4/30/2019 | 0000357 | P & A Administrative Services Inc         | 135.00    |
| W00080 | 4/30/2019 | 0000086 | CalPERS 457 Plan                          | 21,083.14 |

|                      |           |         |  |                          |
|----------------------|-----------|---------|--|--------------------------|
| W00081               | 4/30/2019 | 0000087 | CalPERS Financial Reporting & Accounting | 74,356.01                |
| W00082               | 4/30/2019 | 0000176 | EDD                                      | 14,983.51                |
| W00083               | 4/30/2019 | 0000561 | United States Treasury                   | 60,277.43                |
| <b>Bank U Total:</b> |           |         |  | <u>539,389.66</u>        |
| <b>Report Total:</b> |           |         |  | <u><u>539,389.66</u></u> |

I hereby authorize the use of my signature plate on  
the above-listed warrants, 052656-052754, and EFTs W00080-W00083

---

Signature

Date

Raymond LaTorre, President of the Board

S.Y.M.V.C.D  
FY 2018-2019 Budget Update  
April 2019

|   | Account # | Account Description                     | 10 Months Ended<br>April 30, 2019 | Annual<br>Budget | Unused            |
|---|-----------|---|-----------------------------------|------------------|-------------------|
| T | 4000      | REVENUE                                 | \$ -                              | \$ -             | \$ -              |
| T | 5000      | SALARIES/BENEFITS/WC                    | \$ 10,616,750.51                  | \$ 8,056,523.70  | \$ (2,560,226.81) |
| T | 5200      | OPERATIONAL                             | \$ 4,346,030.37                   | \$ 5,433,364.00  | \$ 1,087,333.63   |
| T | 5210      | LIABILITY INSURANCE                     | \$ 132,199.00                     | \$ 136,922.00    | \$ 4,723.00       |
| T | 5250      | AUDITING/FISCAL                         | \$ 17,750.00                      | \$ 15,500.00     | \$ (2,250.00)     |
| T | 5270      | COMMUNICATIONS                          | \$ 58,210.69                      | \$ 79,500.00     | \$ 21,289.31      |
| T | 5310      | PUBLIC INFORMATION                      | \$ 232,850.79                     | \$ 434,800.00    | \$ 201,949.21     |
| T | 5340      | STRUCTURE & GROUNDS                     | \$ 49,389.32                      | \$ 65,000.00     | \$ 15,610.68      |
| T | 5370      | MEMBER/TRAINING                         | \$ 83,165.59                      | \$ 113,000.00    | \$ 29,834.41      |
| T | 5390      | DISTRICT OFFICE EXPENSES                | \$ 11,082.32                      | \$ 15,000.00     | \$ 3,917.68       |
| T | 5430      | PROFESSIONAL SERVICES                   | \$ 134,385.48                     | \$ 139,200.00    | \$ 4,814.52       |
| T | 5440      | MATERIALS & SUPPLIES                    | \$ 7,384.86                       | \$ 10,000.00     | \$ 2,615.14       |
| T | 5450      | RENTS & LEASES                          | \$ 8,723.18                       | \$ 8,750.00      | \$ 26.82          |
| T | 5470      | SAFETY PROGRAM                          | \$ 1,852.45                       | \$ 5,000.00      | \$ 3,147.55       |
| T | 5480      | UTILITIES                               | \$ 74,972.21                      | \$ 100,000.00    | \$ 25,027.79      |
| T | 6120      | AIRCRAFT SERVICES                       | \$ 704,130.62                     | \$ 809,297.00    | \$ 105,166.38     |
| T | 6140      | ECOLOGICAL MANAGEMENT                   | \$ 2,513.58                       | \$ 17,600.00     | \$ 15,086.42      |
| T | 6160      | MICROBIAL                               | \$ 1,040,549.42                   | \$ 1,336,000.00  | \$ 295,450.58     |
| T | 6170      | BIORATIONALS (Formerly IGR)             | \$ 542,279.57                     | \$ 902,620.00    | \$ 360,340.43     |
| T | 6180      | INSECTICIDES                            | \$ 905,830.37                     | \$ 765,000.00    | \$ (140,830.37)   |
| T | 6220      | FISHERIES                               | \$ 11,733.58                      | \$ 24,990.00     | \$ 13,256.42      |
| T | 6280      | GEOGRAPHIC INFO SYSTEMS                 | \$ 3,456.75                       | \$ 6,925.00      | \$ 3,468.25       |
| T | 6320      | INFORMATION TECHNOLOGY                  | \$ 18,112.48                      | \$ 31,450.00     | \$ 13,337.52      |
| T | 6350      | CONTROL OPERATIONS                      | \$ 10,077.41                      | \$ 28,710.00     | \$ 18,632.59      |
| T | 6370      | SHOP                                    | \$ 79,738.00                      | \$ 88,000.00     | \$ 8,262.00       |
| T | 6420      | LAB SERVICES                            | \$ 124,366.18                     | \$ 156,600.00    | \$ 32,233.82      |
| T | 6450      | GAS & PETROLEUM                         | \$ 91,276.52                      | \$ 143,500.00    | \$ 52,223.48      |
| T | 7000      | CAPITAL ACCOUNTS                        | \$ 118,392.00                     | \$ 414,000.00    | \$ 295,608.00     |
| T | 7011/1510 | Capital Outlay/Construction In Progress | \$ 118,392.00                     | \$ 204,000.00    | \$ 85,608.00      |
| T | 7030      | Research Fund                           | \$ -                              | \$ 50,000.00     | \$ 50,000.00      |
| T | 7035      | Building Improvement                    | \$ -                              | \$ 160,000.00    | \$ 160,000.00     |
| T |           | TOTALS                                  |                                   |                  |                   |
| T |           | Salaries/Benefits                       | \$ 10,616,750.51                  | \$ 8,056,523.70  | \$ (2,560,226.81) |
| T |           | Operational                             | \$ 4,346,030.37                   | \$ 5,433,364.00  | \$ 1,087,333.63   |
| T |           | Capital Accounts                        | \$ 118,392.00                     | \$ 414,000.00    | \$ 295,608.00     |
| T |           | Total Budget                            | \$ 15,081,172.88                  | \$ 13,903,887.70 | \$ (1,177,285.18) |

## Sacramento-Yolo Mosquito and Vector Control District Investment Report

### MAILING ADDRESS

**SACRAMENTO COUNTY**  
 8631 BOND ROAD  
 ELK GROVE, CA 95624

**1.800.429.1022**  
**FIGHTtheBITE.net**

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 they are deposited with the Yolo County Treasurer. The following is the interest earnings, fund balances and investments of the District for the quarter ending **March 31, 2019.**

**Gary Goodman, MANAGER**

### 2019 BOARD OF TRUSTEES

**RAYMOND LATORRE**  
 PRESIDENT, SACRAMENTO

**JAYNA KARPINSKI-COSTA**  
 VICE PRESIDENT, CITRUS HEIGHTS

**CRAIG BURNETT**  
 FOLSOM

**CHRISTOPHER BARKER**  
 DAVIS

**RAUL DEANDA**  
 WEST SACRAMENTO

**SEAN DENNY**  
 WOODLAND

**BRUCE ELDRIDGE**  
 YOLO COUNTY

GALT

**LYNDON HAWKINS**  
 ELK GROVE

**GAR HOUSE**  
 WINTERS

**SUSAN MAGGY**  
 SACRAMENTO COUNTY

**ROBERT J. MCGARVEY**  
 RANCHO CORDOVA

**ROSEMARIE MOORE**  
 ISLETON

| Institution                           |         | Earnings        | Total as of<br>03/31/2019 |
|---------------------------------------|---------|-----------------|---------------------------|
| Yolo County Treasurer Investment Pool | 2.338%* | \$36,985.73     | \$2,506,524.37            |
| L.A.I.F.                              | 2.55%   | \$27,988.97     | \$4,464,900.28            |
| VCJPA-Member Contingency Fund         | 1.3%    | \$18,542.00     | \$1,391,981.00            |
| VCJPA-Property Contingency Fund       | 1.3%    | \$ 1,415.00     | \$106,236.00              |
| CERBT-Strategy 3                      |         | \$124,931.33    | \$1,816,415.16            |
|                                       |         | District Total: | \$10,286,056.81           |

*\*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 1268

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

May 6, 2019

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 March 31, 2019. 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 March 31, 2019:           | 2.338%*                                  |                     | \$ 36,985.73    |
| Quarter ending March 31, 2019:           |  | 2.55%               | \$ 27,988.97    |
| Placement of Funds as of March 31, 2019: |  |                     |                 |
|  | Yolo County Treasurer's Pool (Fund 6953) | \$ 2,506,524.37     |                 |
|  | Flexible Spending Account                | 79,319.50           |                 |
|  | LAIF                                     | <u>4,464,900.28</u> |                 |
|  | Total                                    | \$ 4,794,727.12     |                 |

\*Rates are reflected above as annualized earning rates.

Sincerely,

Edward Burnham  
Accounting Manager, Treasury & Finance



# Vector Control Joint Powers Agency

## Member Contingency Fund

For the Quarter Ended  
March 31, 2019

| Member District         | Balance at<br>Beginning of<br>Quarter | Contributions | (Withdrawals) | Interest<br>Earned | Allocated<br>Admin. | Balance at<br>End of Quarter |
|-------------------------|---------------------------------------|---------------|---------------|--------------------|---------------------|------------------------------|
| Alameda County          | 343,715                               |               |               | 4,640              | (9)                 | 348,346                      |
| Burney Basin            | 30,701                                |               |               | 414                | (1)                 | 31,114                       |
| Butte County            | 313,159                               |               |               | 4,228              | (8)                 | 317,379                      |
| Coachella Valley        | 1,003,505                             |               |               | 13,548             | (25)                | 1,017,028                    |
| Coalinga-Huron          | 4,946                                 |               |               | 67                 | 0                   | 5,013                        |
| Colusa                  | 74,032                                |               |               | 999                | (2)                 | 75,029                       |
| Compton Creek           | 61,352                                |               |               | 828                | (2)                 | 62,178                       |
| Consolidated            | 287,142                               |               |               | 3,877              | (7)                 | 291,012                      |
| Contra Costa            | 1,113,676                             |               | (463)         | 15,032             | (28)                | 1,128,217                    |
| Durham                  | 4,043                                 |               |               | 55                 | 0                   | 4,098                        |
| Fresno                  | 210,946                               |               |               | 2,848              | (5)                 | 213,789                      |
| Glenn County            | 37,203                                |               |               | 502                | (1)                 | 37,704                       |
| Greater Los Angeles     | 1,173,480                             |               |               | 15,843             | (29)                | 1,189,294                    |
| Lake County             | 131,695                               |               |               | 1,778              | (3)                 | 133,470                      |
| Los Angeles County West | 579,786                               |               |               | 7,827              | (14)                | 587,599                      |
| Marin-Sonoma            | 709,884                               |               |               | 9,584              | (18)                | 719,450                      |
| Napa County             | 369,247                               |               |               | 4,985              | (9)                 | 374,223                      |
| No Salinas Valley       | 532,602                               |               |               | 7,190              | (13)                | 539,779                      |
| Northwest               | 841,638                               |               |               | 11,363             | (21)                | 852,980                      |
| Orange County           | 339,512                               |               |               | 4,584              | (8)                 | 344,088                      |
| Oroville                | 11,128                                |               |               | 150                | 0                   | 11,278                       |
| Pine Grove              | 25,882                                |               |               | 349                | (1)                 | 26,230                       |
| Placer                  | 175,092                               |               |               | 2,364              | (4)                 | 177,452                      |
| Sacramento-Yolo         | 1,373,473                             |               |               | 18,542             | (34)                | 1,391,981                    |
| San Joaquin County      | 588,073                               | 15,439        |               | 8,044              | (15)                | 611,541                      |
| San Mateo County        | 433,764                               |               |               | 5,856              | (11)                | 439,609                      |
| Santa Barbara County    | 52,193                                |               |               | 705                | (1)                 | 52,897                       |
| Shasta                  | 226,815                               |               |               | 3,062              | (6)                 | 229,871                      |
| Sutter-Yuba             | 276,658                               |               |               | 3,735              | (7)                 | 280,386                      |
| Tehama County           | 231,682                               |               |               | 3,128              | (6)                 | 234,804                      |
| Turlock                 | 219,148                               |               |               | 2,959              | (5)                 | 222,102                      |
| West Valley             | 266,189                               |               |               | 3,594              | (7)                 | 269,776                      |
| <b>Total</b>            | <b>12,042,361</b>                     | <b>15,439</b> | <b>(463)</b>  | <b>162,680</b>     | <b>(300)</b>        | <b>12,219,717</b>            |

**Note:**

Yield to maturity rate on the VCJPA portfolio is 2.9% 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.





# Vector Control Joint Powers Agency

## Property Contingency Fund

For the Quarter Ended  
March 31, 2019

| Member District      | Balance at<br>Beginning of<br>Quarter | Contributions | (Withdrawals) | Interest<br>Earned | Balance at<br>End of<br>Quarter |
|----------------------|---------------------------------------|---------------|---------------|--------------------|---------------------------------|
| Alameda County       | \$51,332                              |               |               | \$693              | \$52,025                        |
| Burney Basin         | 14,816                                |               |               | 200                | 15,016                          |
| Butte County         | 50,650                                |               |               | 684                | 51,334                          |
| Coachella Valley     | 54,016                                |               |               | 729                | 54,745                          |
| Coalinga-Huron       | 1,512                                 |               |               | 20                 | 1,532                           |
| Colusa               | 6,613                                 |               |               | 89                 | 6,702                           |
| Compton Creek        | 3,777                                 |               |               | 51                 | 3,828                           |
| Consolidated         | 47,540                                |               |               | 642                | 48,182                          |
| Contra Costa         | 68,615                                |               |               | 926                | 69,541                          |
| Delta                | 0                                     |               |               | 0                  | 0                               |
| Durham               | 0                                     |               |               | 0                  | 0                               |
| Fresno               | 26,345                                |               |               | 356                | 26,701                          |
| Glenn County         | 3,006                                 |               |               | 41                 | 3,047                           |
| Greater Los Angeles  | 52,460                                |               |               | 708                | 53,168                          |
| Kings                | 0                                     |               |               | 0                  | 0                               |
| Lake County .        | 0                                     |               |               | 0                  | 0                               |
| Los Angeles County   | 0                                     |               |               | 0                  | 0                               |
| Marin-Sonoma         | 59,961                                |               |               | 810                | 60,771                          |
| Napa County          | 849,817                               |               |               | 11,473             | 861,290                         |
| No Salinas Valley    | 26,669                                |               |               | 360                | 27,029                          |
| Northwest            | 17,531                                |               |               | 237                | 17,768                          |
| Orange County        | 74,602                                |               |               | 1,007              | 75,609                          |
| Oroville             | 0                                     |               |               | 0                  | 0                               |
| Pine Grove           | 2,574                                 |               |               | 35                 | 2,609                           |
| Placer               | 599                                   |               |               | 8                  | 607                             |
| Sacramento-Yolo      | 104,821                               |               |               | 1,415              | 106,236                         |
| San Gabriel Valley   | 98,972                                |               |               | 1,336              | 100,308                         |
| San Joaquin County   | 93,642                                |               |               | 1,264              | 94,906                          |
| San Mateo County     | 37,879                                |               |               | 511                | 38,390                          |
| Santa Barbara County | 1,752                                 |               |               | 24                 | 1,776                           |
| Shasta               | 31,037                                |               |               | 419                | 31,456                          |
| Sutter-Yuba          | 63,007                                |               |               | 851                | 63,858                          |
| Tehama County        | 22,977                                |               |               | 310                | 23,287                          |
| Turlock              | 0                                     |               |               | 0                  | 0                               |
| West Valley          | 71,982                                |               |               | 972                | 72,954                          |
| Total                | \$1,938,504                           | \$0           | \$0           | \$26,171           | \$1,964,675                     |

**Note:**

Yield to maturity rate on the VCJPA portfolio is 2.9% 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.

# Sacramento-Yolo Mosquito & Vector Control District

CERBT Strategy 3

Entity #: SKB8-1375523307

Quarter Ended March 31, 2019



## Market Value Summary:

|                                    | QTD<br>Current Period | Fiscal<br>Year to Date |
|------------------------------------|-----------------------|------------------------|
| Beginning Balance                  | \$1,691,853.00        | \$1,751,040.62         |
| Contribution                       | 0.00                  | 0.00                   |
| Disbursement                       | 0.00                  | 0.00                   |
| Transfer In                        | 0.00                  | 0.00                   |
| Transfer Out                       | 0.00                  | 0.00                   |
| Investment Earnings                | 124,931.33            | 66,485.65              |
| Administrative Expenses            | (213.28)              | (641.85)               |
| Investment Expense                 | (155.89)              | (469.26)               |
| Other                              | 0.00                  | 0.00                   |
| Ending Balance                     | \$1,816,415.16        | \$1,816,415.16         |
| FY End Contrib per GASB 74 Para 22 | 0.00                  | 0.00                   |
| FY End Disbursement Accrual        | 0.00                  | 0.00                   |
| Grand Total                        | \$1,816,415.16        | \$1,816,415.16         |

## Unit Value Summary:

|                                   | QTD<br>Current Period | Fiscal<br>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       | 13.661010             | 14.138926              |
| Period Ending Unit Value          | 14.666798             | 14.666798              |

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 CERBT4U@calpers.ca.gov.

Statement of Transaction Detail for the Quarter Ending 03/31/2019  
Sacramento-Yolo Mosquito & Vector Control District  
Entity #: SKB8-1375523307

---



---

Client Contact:  
CERBT4U@CalPERS.ca.gov

**1. Items for Approval by General Consent:**

d. Board Review and Consideration of a Temporary Work Assignment for  
Up to Two Months

A District control operations supervisor is planning to retire during the season. The District will be replacing the supervisor with a qualified candidate and would like the new candidate to train with the outgoing supervisor up to his final retirement date. Section 8.01 of the Personnel Manual states, The Manager may temporarily, for up to thirty (30) days, assign an employee to perform work normally performed by an employee at a different level of salary. This particular assignment will be longer than 30 days, approximately 45 days, so Board approval is needed. The Manager is seeking approval to temporarily fill the supervisor position for up to two months to allow the new supervisor to train and be ready to take over upon the current supervisor's retirement.

**Recommendation:**

Approve the Temporary Work Assignment for Up to Two Months

# **Sacramento-Yolo Mosquito and Vector Control District**

## **May 21, 2019 Board Meeting**

### **3. Reports to the Board**

- a. Manager's Report**
- b. Reports from AMCA Washington Day**
- c. Reports from District Departments**
  - **Lab/Surveillance (Marcia Reed)**
  - **Ecological Management (Marty Scholl)**
  - **Biological Control (Tony Hedley)**
  - **Larval and Adult Control (Steve Ramos)**
  - **Public Outreach (Luz Maria Robles)**

#### **a. Manager's Report**

The season is getting very busy and control operations are in full swing. The District has begun testing both birds and mosquito collections in May. Staff has started working some overtime to address high populations.

The AMCA Washington Conference was held on May 13-17, 2019. Manager Goodman and Trustee Denny attended and the main topics discussed with our legislators were the NPDES fix, funding for the SMASH Act, CDC funding, and the Endangered Species Act. I have included the position papers that were discussed with our legislators.

MVCAC continues to track legislation in California that might potentially impact vector control in the future. AB 320 (CalSurv Gateway) was heard in the Environmental Safety and Toxic Materials Committee on March 12<sup>th</sup> and has now been referred to the Committee on Appropriations. The support from the legislature continues to be positive and we hope to get this in statute this year.

Mosquito and West Nile Virus Awareness Week went very well with a number of activities that generated significant media coverage.

#### **b. Reports from MVCAC Quarterly Meeting and AMCA Washington Day**

#### **c. Reports from District Departments**

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

# LEGISLATIVE ISSUES

**Mosquito control professionals are responsible for protecting humans and wildlife from diseases transmitted by the world's most dangerous animal – the mosquito. According to the Centers for Disease Control and Prevention, improved mosquito control capability is needed to prevent the increasing emergence and spread of exotic diseases such as Zika and West Nile Virus.**



## **AMCA Supports Increased Funding To Improve Local Mosquito-borne Disease Control Capacity**

**The Strengthening Mosquito Abatement for Safety and Health Act** (H.R. 345) enjoys broad bipartisan support and would provide grants for mosquito control programs in 2020 through FY2024 directly to local districts, in such sums as necessary. An additional increase in CDC's budget to \$200 million/yr. is needed to fund critical vector surveillance and control and disease reporting measures in support of local disease control measures. Congress should also fund the continuation of the USDA IR-4 Public Health Pesticides Program (PHP), which provides vital assistance for research studies supporting regulatory requirements for vector control products needed to maintain public health and welfare.



## **AMCA Supports H.R. 890: The Reducing EPA Duplication to Advance Pesticide Enforcement Act (REDTAPE Act)**

Public health pesticide applications are already fully regulated under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). The 2009 6th Circuit court decision ignored original Congressional intent and added an additional, unnecessary layer of costly administrative overhead by requiring entities to obtain a National Pollutant Discharge Elimination System (NPDES) permit under the Clean Water Act. The REDTAPE Act would eliminate this redundant requirement that provides no additional environmental benefit, while unnecessarily absorbing critical resources.



## **AMCA Supports Reform of the Endangered Species Act (ESA) to Realistically Assess Potential Impacts of Mosquito Control Operations on Listed Species.**

EPA, US Fish and Wildlife Service and National Marine Fisheries Service should base Endangered Species Act (ESA) decisions on probabilistic risk assessments, based on realistic usage and critical habitat assumptions. Current proscriptions imposed by ESA against public health mosquito control products such as malathion are subject to a threshold of a one-in-million chance of an activity potentially harming a single individual of a listed species. Population effects are ignored, as are fully documented pesticide usage rates and geographic extent of use patterns, fate and behavior of malathion, potential environmental concentrations. Critical habitat designations are based on problematic assumptions involving outdated data sets. Thus, the current risk assessments grossly overestimate actual risk and place the public and wildlife at increased risk from restrictions on control modalities. Probabilistic risk assessments would more accurately reflect potential exposures and effects.



# ENDANGERED SPECIES ACT CONSIDERATIONS AND MOSQUITO CONTROL

**ISSUE:** Decisions on how pesticides should be used near sensitive or listed species are not being developed in a transparent manner based upon sound science.

**Background:** The Endangered Species Act (ESA) is intended to protect species that are threatened with extinction and maintain their critical habitat. However, its implementation can impede mosquito control programs from protecting the public and wildlife from nuisance and disease-carrying mosquitoes.

During the pesticide registration process, the Environmental Protection Agency (EPA) provides its analysis of a pesticide's potential environmental effects, including those involving endangered or threatened species, to the Fish and Wildlife Service and National Marine Fisheries Service (the Services), which are charged with administering the ESA. If the preliminary decision is that the use "may affect" listed species, the Services then develop and issue Biological Opinions (BiOps), reflecting their conclusions of potential impacts to species and habitat from pesticide use. In developing BiOps, the Services are required to use the "best available" data to determine potential impacts on species, and where necessary, recommend measures to mitigate those impacts.

Historically, in many instances, the "best available data" relied on by the Services was not validated, and could be more appropriately classified as unsubstantiated opinion. The Services' process was not open and transparent, or subject to peer review. This was recognized in the 4<sup>th</sup> Circuit Court of Appeals ruling that NMFS was "arbitrary and capricious" in issuing BiOps relating to certain Organophosphate and potential effects on salmonids. As a consequence, the Services were forced to work with the EPA in identifying appropriate approaches in analyzing the potential for impacts of pesticide products, including public health pesticides, on endangered and threatened species. The development of these approaches is still underway.

**Discussion:** There is a concern that ESA regulatory decisions, which may adversely affect the ability to use pesticides to protect public health, will be made before the approaches being considered have been subjected to peer review and public comment, and where appropriate, modified before they are finalized. A more prudent approach would be to make pesticide regulatory decisions only after the appropriate public review of the approaches has been completed. This would assure that the potential regulatory decisions are more robust as well as helping to avoid the potential for unnecessary restrictions on public health pesticides.

**CURRENT STATUS:** Given the dynamics of the new Congress and the House Democratic Majority, it is much less anticipated that any substantive ESA reform could take place in the 116<sup>th</sup> Congress. Any modifications relating to ESA, if at all, would be very modest in nature and most likely related to methodologies or processes under ESA, rather than substantive measures.

The enacted 2018 Farm Bill requires the establishment of a FIFRA Interagency Working Group to provide recommendations and develop a strategy for improving the pesticide consultation process under Section 7 of the ESA. The Working Group consisting of representatives from the Department of Agriculture, the Department of Commerce, the Department of the Interior, the Council on Environmental Quality, and EPA, will be required to periodically report to Congress on its progress in developing and implementing its recommendations for improving the ESA Section 7 consultation process.

---

**NEEDED  
ACTION:**

**Congress should pass the REDTAPE Act, or similar legislation clarifying that pesticides registered by EPA under FIFRA do not require additional regulatory oversight under the Clean Water Act.**

---



## FUNDING COMPREHENSIVE VECTOR CONTROL

**ISSUE:** The emergence and spread of West Nile virus, Chikungunya and Zika highlighted our nation's insufficient preparation for responding to these threats. Our understanding of these and future diseases require support for continued research, development and evaluation of tools to combat them. Training and research for vector-borne disease surveillance and control programs must be upgraded to mitigate the future impacts of additional exotic vector-borne diseases.

**Background:** In the past 20 years, the United States has seen the introduction and spread of West Nile virus, Chikungunya and Zika, in addition to the continued impact of Dengue. The Centers for Disease Control and Prevention (CDC) Division of Vector Borne Diseases (DVBD) obtains and allocates funding state, county and district or municipal mosquito control programs to help support operations, build infrastructure and develop improved vector control tools which play a crucial role in the fight to protect public health.

**Discussion:** Since 2000, annual Epidemiology and Laboratory Capacity (ELC) grants from the CDC have provided money to 50 states and six large cities to detect, monitor and control over 20 mosquito-borne and tick-borne diseases. However, the funds directed to be used by individual mosquito districts for control operations was insufficient. FY 2016 and FY 2017 saw supplemental federal funds to support expanded ELC grants for arbovirus surveillance, and particularly operational control activities. These supplemental funds allowed states to prevent, rather than merely react, to vector-borne disease outbreaks by controlling the vectors themselves – and helped saved lives. These funds also allowed the CDC to contract with the American Mosquito Control Association (AMCA) to develop and implement a comprehensive training program to significantly enhance professional development in the knowledge of emerging vector-borne diseases and their control. Continued support of this skilled vector workforce and growth of innovation in the field of vector control is essential to effectively and efficiently respond to any future vector-borne disease threats. Increased funding will allow the CDC to continue to support the development of new technology and evaluation of products through the Regional Centers of Excellence (RCE). These RCE's allow for strong collaboration between local vector control agencies, state health departments and universities to discover and develop new techniques to enhance efficiency and effectiveness in the field in real time.

The Strengthening Mosquito Abatement for Safety and Health Act (H.R.345) has been introduced in the House by Representative Soto of Florida. This legislation reauthorizes the MASH Act which was designed to authorize federal funds for local governments to protect communities from mosquitoes and other disease vectors, and represents a platform for building a sustainable capacity to meet future imported exotic diseases. The SMASH language is also included in the Pandemic and All-Hazards Preparedness and Advancing Innovation Act of 2019 (H.R. 269) introduced by Representative Eshoo from California.

The USDA IR-4 Public Health Pesticides Program (PHP) provides critical assistance to meet regulatory requirements for bringing new control tools to market, expansion of allowed use patterns, and protection of existing tools from regulatory or other challenges.

### NEEDED ACTIONS:

- **Pass and fully fund all provisions of H.R. 345 or H.R. 269 Strengthening Mosquito Abatement for Safety and Health Act. This amounts to \$130 million per year, FY 2019-FY 2023.**
- **Support the continuation of the IR-4 Public Health Pesticides Program (PHP) of \$350,000 to provide critical assistance for supporting vector control, including regulatory and other support needed to maintain public health and welfare.**
- **Increase the funding for the Division of Vector Borne Diseases (DVBD) to \$90 for the suppression of mosquito and other vector transmitted diseases.**





# CLEAN WATER ACT NPDES PERMIT IMPACTS ON MOSQUITO CONTROL PROGRAMS

**ISSUE:** Public Health Pesticides registered by the Environmental Protection Agency (EPA) under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) do not require additional regulatory oversight by National Pollutant Discharge Elimination System (NPDES) permits.

**Background:** Due to a 2009 court ruling, commencing October 31, 2011, EPA and the states instituted NPDES permits for the application of mosquito control pesticides (both biological and synthetic), whenever an application results in a pesticide residue, however minimal, entering waters of the US. The ruling negated a final rule issued by the EPA in 2006 clarifying two specific circumstances in which a Clean Water Act NPDES permit is not required for discharges from the application of pesticides to or around water:

1. Pesticides are applied to control pests in the water.
2. Pesticides are applied to control pests that are present over or near water, where a portion of the pesticides will unavoidably be deposited to the water to target the pests.

**Discussion:** The American Mosquito Control Association worked with EPA and authorized states to craft NPDES pesticide general permits that minimize potential impacts on Mosquito Control Program's (MCP) public health mission. Those permits have resulted in scarce public funds being spent on duplicative regulatory requirements, administrative fees, and legal costs. Pesticides are already effectively regulated for uses in and near water under the registration process required by FIFRA. Under FIFRA, EPA requires a comprehensive range of scientific studies, which determine potential impacts on water quality and aquatic species. These include a suite of studies on ecological effects (e.g., freshwater fish toxicity, acute toxicity freshwater invertebrates, estuarine and marine organisms, fish early-life stage, fish life cycle, bioavailability, biomagnification and whole sediment toxicity), environmental fate (e.g., hydrolysis, photodegradation in water, photodegradation in soil, aerobic and anaerobic aquatic metabolism, volatility, absorption and desorption, groundwater monitoring), and residue chemistry.

EPA has broad powers to require additional information, and does so where necessary to ensure that it thoroughly understands a pesticide's risks. EPA will only approve a registrant application when it is confident that based on the data, there is reasonable certainty the intended use of the product will not cause unreasonable adverse effects on man or the environment.

The need for MCP's to utilize their time and resources efficiently are more important than ever, especially with the emergence of Zika virus affecting the U.S. population. The U.S. has also seen significant impacts of other diseases such as West Nile virus, Chikungunya, and Dengue in recent years and the potential for new and emerging viruses is ongoing. Ensuring that funds are spent on the actual control of mosquitoes and not duplicative regulations is paramount.

**CURRENT STATUS:** On February 7, 2019, Congressman Bob Gibbs (R-OH) introduced the REDTAPE Act, [H.R.890](#) clarifying that pesticide applications for mosquito control in accordance with label requirements are fully and effectively regulated under FIFRA, requiring no further oversight under the Clean Water Act NPDES permit program. The legislation was approved by the House of Representatives in the 115<sup>th</sup> Congress, and included in the House version of the Farm Bill, but not ultimately adopted by the Farm Bill Conference Committee.

---

|                           |  |
|---------------------------|--|
| <b>NEEDED<br/>ACTION:</b> | <b>Congress should pass the REDTAPE Act, or similar legislation clarifying that pesticides registered by EPA under FIFRA do not require additional regulatory oversight under the Clean Water Act.</b> |
|---------------------------|--|

---



# PASSING THE STRENGTHENING MOSQUITO ABATEMENT SAFETY AND HEALTH ACT (SMASH ACT)

**ISSUE:** Enacting the SMASH Act would substantially further our nation's values of protecting public health into the future. Subsequent appropriation of funding is also required by Congress to allocate federal resources for programs and operations authorized under the SMASH Act.

**Background:** The emergence and spread of Zika Virus in Central and South America and the Caribbean has reawakened in the United States an appreciation of mosquitoes as not just nuisances but transmitters of serious disease. Public health agencies must be fully prepared to meet the challenges of lethal mosquito-borne illness, and as such, the SMASH Act provides the necessary framework to confront this public health threat.

Resources for prevention and control programs must be made available – and employed – so that future imported cases of exotic diseases can be contained and eliminated before their establishment and spread. The national capacity to control mosquito-borne disease largely depends on the extent to which our public health infrastructure is appropriately funded. Authorizing the SMASH Act and then subsequently appropriating the necessary funds to carry it out is essential for assuring that the necessary infrastructure is established and operational.

In the current Congress, the SMASH Act, H.R. 345, was introduced by Rep. Darren Soto (D-FL). It was included in the Pandemic and All Hazards Preparedness and Advancing Innovation Act (PAHPA), which passed the House of Representatives on January 10, 2019 by a vote of 401-17.

Companion legislation is anticipated to be introduced in 2019 by Senator Angus King (I-ME). In the previous Congress, Senator King introduced S.849, the SMASH Act, which was approved by the U.S. Senate on September 6, 2017. While the SMASH Act was initially included within the PAHPA House/Senate Conference Report in late 2018, the PAHPA Conference Report, including the SMASH Act, was never given final consideration in Congress, due to issues unrelated to the bill's substance. We remain optimistic that Senator King will reintroduce the SMASH Act in this Congress and it can be adopted by the Senate and subsequently enacted into law.

## **SMASH Legislative Provisions:**

- Amends the Public Health Service Act to authorize Centers for Disease Control and Prevention (CDC) in grants for mosquito control programs through FY2024, in such sums as necessary. Resources may be used to address emerging, infectious mosquito-borne diseases and to improve existing control programs.
- Provides grants with a preference given to: (1) a public health emergency due to a mosquito-borne disease, or (2) a control program that is consistent with existing state preparedness plans. Note: a Matching Fund is required under the legislation, but may be waived if the area covered by a grant applicant has an extreme need.
- Designates CDC grants to help public health agencies improve surveillance and response activities is extended through FY2024. The Government Accountability Office must report on the surveillance and control of mosquito-borne infectious diseases in the United States and territories.

---

## **NEEDED ACTION:**

**The SMASH Act, or comparable legislation, should be approved by the Senate and enacted into law, as well as subsequent appropriations allocated by Congress, to ensure adequate and effective resources are available for vital mosquito control efforts and to safeguard public health.**

---



## PASSING THE STRENGTHENING MOSQUITO ABATEMENT SAFETY AND HEALTH ACT (SMASH ACT)

**ISSUE:** Once the Strengthening Mosquito Abatement Safety Health Act (SMASH Act) is enacted into law, Congress must appropriate funding in support of programs for mosquito-borne and other vector-borne disease surveillance and control, as designated within the SMASH Act.

**Background:** Public health agencies must be fully prepared to meet the challenges of lethal mosquito-borne diseases. In recent years, the emergence and spread of Zika Virus in Central and South America and the Caribbean has reawakened in the United States a recognition of mosquitoes as not just nuisances but transmitters of serious, debilitating diseases.

The SMASH Act, currently pending before Congress, would reauthorize the Mosquito Abatement for Safety and Health Program, to provide the necessary mechanisms to confront these public health challenges. Thus, to address our nation's emerging infectious mosquito-borne diseases at the local and regional levels, critical funding must be authorized and funds appropriated by Congress, as reflected within the SMASH Act. Note: The SMASH Act has been approved by the House of Representative (H.R. 345) through broader legislation, the Pandemic and All Hazards Preparedness and Advancing Innovation Act (PAHPA), and is awaiting Senate Action.

Our national capacity to control mosquito-borne disease depends on the extent to which our public health infrastructure is appropriately funded. Funds for prevention and control programs must be appropriated so that future imported cases of exotic diseases can be contained and eliminated before their establishment and spread. As such, funding is requested to carry out the programs and operations authorized by the SMASH Act.

---

### NEEDED ACTION:

**Subsequent to authorization and enactment into law of the SMASH Act, vital appropriation funding is needed to ensure adequate and effective resources are available for critical mosquito control efforts to safeguard public health.**

**As such, \$130 million is requested through the Centers for Disease Control and Prevention (CDC), Division of Vector-Borne Diseases, for grants for mosquito control programs, through funding mechanisms as designated in the SMASH Act. Such resources would be used to address emerging, infectious mosquito-borne diseases, and to improve existing control programs for the enhanced protection of public health in our nation.**

---



## CLEAN WATER ACT WATERS OF THE U.S. (WOTUS)

### ISSUE: Jurisdiction of Clean Water Act (“CWA”) under the Waters of the U.S. (“WOTUS”)

**Background:** The CWA generally prohibits the discharge of pollutants into navigable waters (i.e., waters of the U.S.), except in accordance with a permit issued by the U.S. Environmental Protection Agency (EPA), the Army Corps of Engineers (“Corps”) or a delegated state. The statute protects “navigable waters,” which it defines as “the waters of the United States, including the territorial seas.” The scope of WOTUS is not defined in the CWA. Thus, the Corps and EPA have defined the term in regulations several times as part of their implementation of the CWA.

Two Supreme Court rulings, issued in 2001 and 2006 interpreted the scope of the CWA more narrowly than EPA and the Corps had done previously in regulations and guidance. However, the rulings also created uncertainty about the intended scope of waters that are protected by the CWA. In 2014, the Corps and EPA proposed and in 2015 finalized revisions to the existing 1980 based regulations in light of the Court’s rulings. On February 28, 2017, the President issued an Executive Order directing EPA and the Department of the Army to review and rescind or revise the 2015 Rule.

On December 11, 2018, the EPA and the Corps proposed a revised definition for WOTUS aimed at establishing the scope of federal regulatory authority under the CWA in a more clear and understandable way. The proposed definition is the latest attempt to bring clarity to jurisdictional issues commonly disputed among the agencies and regulated community, including questions over whether discharges to wetlands, ditches and tributaries require permits. Prior definitions have been heavily influenced by numerous court decisions.

**CURRENT STATUS:** On February 14, 2019, the EPA and the Corps published for public comment a proposed rule defining the scope of waters subject to federal regulation under the CWA in light of the U.S. Supreme Court decisions and consistent with Executive Order 13778, signed on February 28, 2017, entitled “Restoring the Rule of Law, Federalism, and Economic Growth by Reviewing the ‘Waters of the United States’ Rule.”

The agencies propose to interpret the WOTUS to encompass: traditional navigable waters, including the territorial seas; tributaries that contribute perennial or intermittent flow to such waters; certain ditches; certain lakes and ponds; impoundments of otherwise jurisdictional waters; and wetlands adjacent to other jurisdictional waters.

If finalized as proposed, the revised definition may benefit impacted stakeholders, including mosquito control districts by providing greater certainty as to which projects are subject to EPA and Corps jurisdiction and require permits.





## PESTICIDE REGISTRATION IMPROVEMENT EXTENSION ACT OF 2018 (PRIA)

**ISSUE:** The Pesticide Registration Improvement Extension Act of 2018 (PRIA) established a framework for EPA when registering pesticides. The original intent has been to create a more predictable and effective evaluation process for affected pesticide decisions by coupling the collection of fees with specific decision review periods.

**Background:** The FIFRA amendments of 1988 put in place new and significant fees on registered pesticide products in order to provide EPA with added resources to accomplish re-registration. Prior to implementation of PRIA in 2004, there was little certainty for registration packages moving through the EPA.

PRIA established a framework for EPA when registering pesticides, as the original intent has been to create a more predictable and effective evaluation process for affected pesticide decisions by coupling the collection of fees with specific decision review periods. The enactment of PRIA changed that experience for product registrants and all stakeholders. The success of PRIA has led to process improvements in OPP, established a dedicated funding stream for the Agency, created specific block grants for training and education programs, and created certainty.

**CURRENT STATUS:** On March 8, 2019, PRIA was signed into law (P.L. 116-8), following adoption in both the U.S. Senate and House of Representatives of the PRIA Act (S. 483). The measure, sponsored by Senate Agriculture Committee Chairman Pat Roberts (R-KS) and co-sponsored by Ranking Member Debbie Stabenow (D-MI), includes technical changes and extends authority for EPA to collect updated pesticide registration and maintenance fees through FY 2023.

The reauthorization will, among others:

- Provide for the annual collection of \$31 million in product maintenance fees through 2023 (an increase of \$22.4 million over the seven years covered by PRIA 4);
- Cap the fees paid by small businesses;
- Add Endangered Species Act reviews, risk reduction, and information technology system enhancements to the eligible uses of the funds collected;
- Designate \$500,000 per year for the establishment of efficacy guidelines for products to address invertebrate pests of significant public health or economic consequence.

---

**NEEDED ACTION:** Express appreciation to those Members of Congress instrumental or supportive of PRIA adoption.

---

## LABORATORY

### Monthly Report for May 2019 Board Meeting

#### Insectary:

Colonies maintained: *Culex tarsalis* BFS (susceptible)  
*Culex tarsalis* Kern National Wildlife (susceptible)  
*Culex tarsalis* Conaway Ranch – wild (resistant)

*Culex quinquefasciatus* Cq1 (susceptible)  
*Culex pipiens* Woodland (resistant)

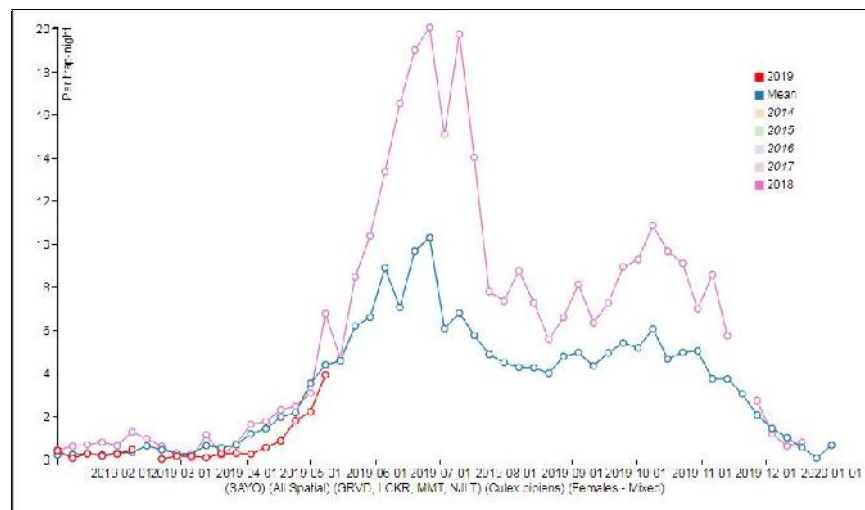
*Culiseta incidens* wild - Sacramento County  
*Aedes sierrensis* wild - Marin - Sonoma County

We have performed bottle bioassays with our new wild resistant *Culex tarsalis* colony, Conaway Ranch, and have confirmed that it has maintained its' resistance characteristics. This will be very important in being able to utilize resistant *Culex tarsalis* mosquitoes of known age in trials this season.

#### Surveillance:

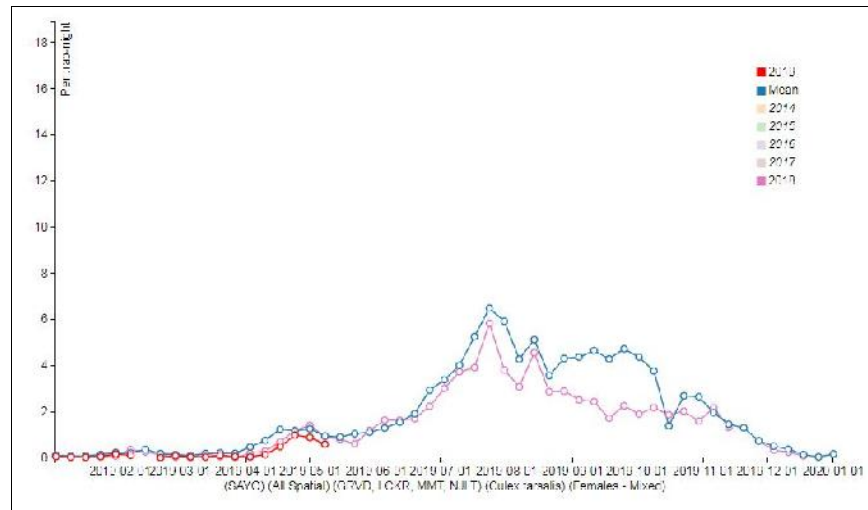
- **Weekly collections** – New Jersey Light traps (NJLTs), Locker CO<sub>2</sub> Traps (LCKRs) and Gravid traps (GTs) results are presented in the graphs below. *Culex pipiens* and *Culex tarsalis* mosquito activity is low, below both last years and the 5 year average.

*Culex pipiens* in abundance traps (NJLT, LCKR, GT):



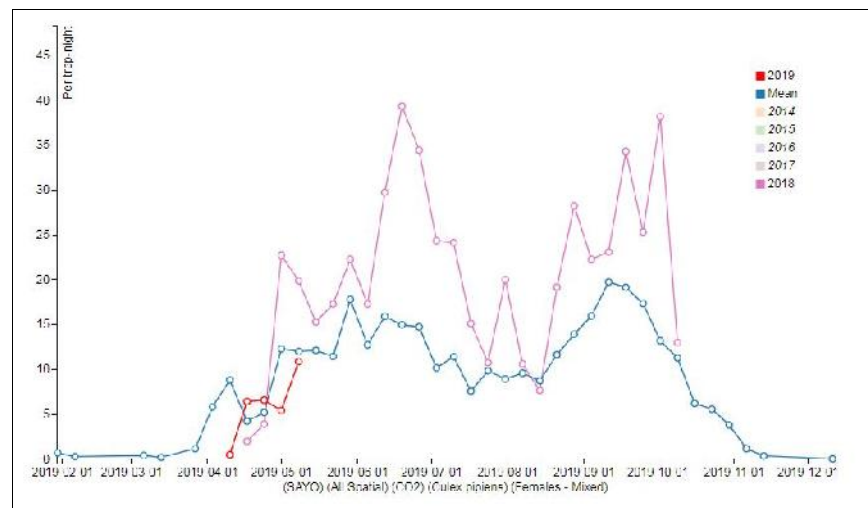


*Culex tarsalis* in abundance traps (NJLT, LCKR, GT):

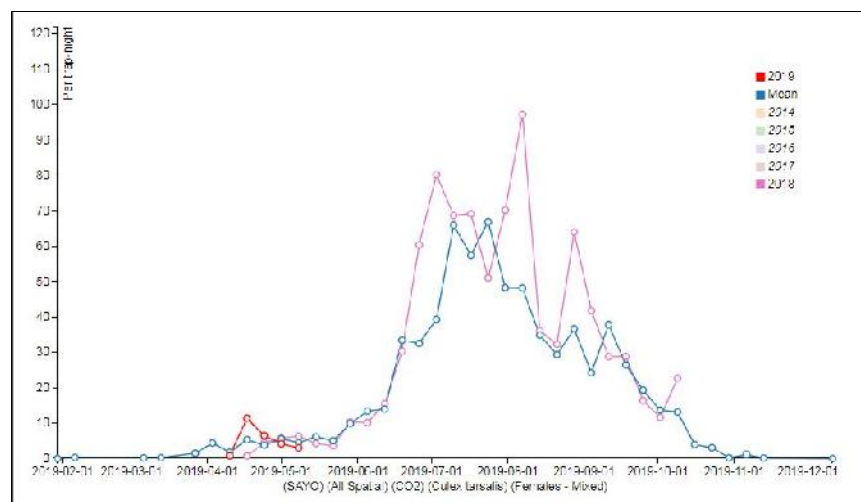


**Encephalitis virus surveillance (EVS) – Mosquitoes** – We have begun trapping at our permanent EVS trap sites and will add locations in response to either dead bird positive results or positive mosquito samples (pools) as warranted.

*Culex pipiens* in CO<sub>2</sub> traps:



## *Culex tarsalis* in CO<sub>2</sub> traps:



**Encephalitis virus surveillance (EVS) – Sentinel Chickens** – We have conducted two biweekly bleed events and no chickens have tested positive yet. The sites for this year are: Isleton, Rancho Murieta and Gibson Ranch in Sacramento County and Dunnigan and Knights Landing in Yolo County.

**Encephalitis virus surveillance (EVS) – Dead Birds** – We have begun picking up and testing dead birds. We have found no positive birds yet.

**Exotic/Invasive Species Surveillance** – We have begun setting BG Sentinel traps during our EVS trap runs. We are utilizing both the BG –Lure and CO<sub>2</sub> as the trap attractants. We will pool and test any *Culex tarsalis* and *Culex pipiens* mosquitoes that these traps capture as well as continue to monitor for the presence of any invasive container breeding *Aedes*.

**Tick and Lyme disease surveillance** – Tick flagging for *Ixodes pacificus* ticks is concluded for this season. For the 2018-2019 winter tick program we collected 358 pools. We have had 10 positive pools from the 358 total so far. Specifically, 6 pools were positive from the Nimbus Dam Overlook site, 3 positive pools from Willow Creek, and 1 pool from the Cache Creek Blue Ridge trail. We still have to test 108 of the total 358 pools. They will be tested this week and an update will be presented in June.

**BG Counter Traps** – We will be utilizing these traps again for our rice habitat adult surveillance program and are working with control staff to determine the best locations for the traps to be placed. We will also be setting a number of these traps in additional locations across the two counties to gather mosquito flight activity information.



**Non-WNV Disease Response Surveillance** – We were not notified of any cases of non-WNV diseases this month.

#### **District Studies –**

**WDG WALs study** – We are working with control staff in delineating four suburban areas where this larvicide treatment will be performed in continuing our trial work of last season. Mosquito populations and thus efficacy of the treatments will be monitored via trapping in the treated areas and in control areas adjacent to the treated areas.

**Product Trials** – We are planning on evaluating with control staff, an adult residual and larvicidal product combination, One Guard, as well as new yellow jacket bait stations. In addition we will be looking at our dairy sump larval control products as well as various ULV adulticide products.

**Vectobac 12AS via rotary atomizers** – We will be working with control to evaluate the efficacy of utilizing aerial application equipment with rotary atomizers to apply Vectobac 12AS in the rice field habitat. The cost savings of not switching to granular products once the rice plant is tall could be significant.

#### **Collaborations –**

**Bottle Bioassay Workshop and Testing** – Dr Anton Cornel's staff will be running a workshop on May 22<sup>nd</sup> at the District. Several other mosquito control districts will be here to participate. This is being done as part of Dr. Cornel's Center of Excellence work.

**Catch Basin Residue and Resistance study** – We are in the midst of coordinating with Dr Gan of UCR and several other Districts in designing this study for this season. The study is designed to determine what pyrethrin/pyrethroid residues are present in catch basins and conduct adult bottle bioassay assessments of *Culex pipiens* complex mosquitoes in the same areas as the basins.

**Biogents REMOSIS Project (Now BGI)** – We are looking forward to again working on this new trap design this season.

**Biogents Pro trap** – We are working the California state Dept. of Public Health Vector Vector-Borne Disease staff and Biogents in evaluating a new modular trap system that Biogents has engineered. We have just about finalized a protocol and will be setting these traps as soon as we have received them from Biogents.

**Sugar Bait Project** - We will be working with a student in Dr. Lark Coffey's lab at UC Davis and will use sugar wicks in small bait station-like units to monitor for West Nile virus around locations where positive dead birds were found.

**California Arbovirus Surveillance Bulletin #6** Week 19: Friday, May 10, 2019

| 2018 & 2019 YTD West Nile Virus Comparisons |           |           |
|---|-----------|-----------|
|   | 2018      | 2019      |
| Total # Dead Bird Reports                   | 1,042     | 1,232     |
| # Positive Counties                         | 3         | 3         |
| # Human Cases                               | 0         | 0         |
| # Positive Dead Birds / # Tested            | 4 / 194   | 1 / 293   |
| # Positive Mosquito Pools / # Tested        | 1 / 2,692 | 4 / 3,920 |
| # Seroconversions / # Tested                | 0 / 1,052 | 0 / 848   |

| YTD WNV Activity by Element and County, 2019 |          |            |                |                   |
|--|----------|------------|----------------|-------------------|
| County                                       | Humans   | Dead Birds | Mosquito Pools | Sentinel Chickens |
| Orange                                       |          |            | 1              |                   |
| Riverside                                    |          |            | 3              |                   |
| San Diego                                    |          | 1          |                |                   |
| <b>Totals</b>                                | <b>0</b> | <b>1</b>   | <b>4</b>       | <b>0</b>          |

## **ECOLOGICAL MANAGEMENT DEPARTMENT**

### **Monthly Report for the May 2019 Board Meeting**

#### **Storm Water / Drainages Program**

Sacramento County Dept. of Parks and Recreation: The Department has continued to request assistance from the District with removing the beaver dam on Cordova Creek. Staff will service or replace the existing excluder pipe along the nature trail to help keep the water flowing inside the banks of the restored creek area.

#### **Wetland Program**

Spring Meetings: Staff has started meeting with wetland managers to discuss the 2019 mosquito season. Meetings will continue to be scheduled as landowners are available, and as flooded areas dry out.

Spring irrigations have begun on some of the drier wetland areas while the temperatures are still cool. One wetland in the Lower Yolo Bypass will be holding water during the summer months to help vegetate a new wetland. They have agreed to pay for treatments, or will drain the wetland if requested.

#### **Planning Program**

Staff received additional lot and general plans for multiple areas of the Folsom Ranch project as well as preliminary plans for a new subdivision located in Southern Galt, East of Hwy 99.

#### **Pool Program**

Staff assisted Control Operations with the mailing of pool notices derived from recent aerial green pool identifications. Staff is also preparing the first set of inspection warrants to gain access to backyard pools where entry has not been granted.

Staff met with the City of Sacramento Code Enforcement to discuss options for collaborating with each other. Both agencies will share pool visual information and assist with furthering each other's goals where feasible.

#### **Agricultural Program**

Staff has begun grading work on multiple BMP projects before the summer irrigations prevent access. Multiple breeding sources have been eliminated, and will be monitored this season. All projects have been designed utilizing a mix of traditional survey methods along with UAS mapping technologies.



## UAS Program

Stone Lakes NWR: Staff met with the Refuge Management along with the USFWS Regional Regulatory liaison to discuss UAS applications over USFWS property. After looking at the environmental processes for existing applications, a pathway emerged for submitting the necessary documentation for approval from the Washington office for mosquito control applications. Refuge Management will be submitting a Pesticide Use Proposal for one hundred fifty acres of pre-treatment over dry wetland by UAS for use later this season. The Refuge Manager as well as the Regional Biologist is hopeful that this approach will gain Federal approval for the first UAS application.

Staff spoke at the Small Unmanned Systems Business Exposition 2019 held in San Francisco on the wide ranging uses of UAS' in Vector Control. Our UAS program received many positive comments from NASA, FAA, and other private companies in attendance.

Leading Edge Associates Inc. has begun UAS treatments over wetlands, fallow fields, and pastures under the 2019 Aerial Contract. Staff also detailed the FAA pesticide authorization process to the California Dept. of Pesticide Regulations (CDPR) UAS Licensing Program staff. Ecological management staff will help CDPR finish the UAS study guide prior to final approval in a few months. The CDPR UAS license procedure is still scheduled to be released by July 1, 2019.

Department supervisors have been utilizing the Department's imaging capabilities to find spring flood waters and potential treatment areas.



Putah Creek Island, Yolo Bypass



City of Woodland, County Rd 25



## BIOLOGICAL CONTROL

### Monthly Report for May 2019 Board Meeting

The month of April proved to be very busy with all of our continuous projects including moving mosquitofish and training new seasonal employees. The fish distribution process has been completed with the desired amount of mosquitofish stocked into grow out ponds. Mosquitofish fry were first noticed in grow out ponds on April 19th as expected and on schedule. The Fisheries Department continues to monitor water quality, remove crayfish from ponds and conduct maintenance around the facility including herbiciding and landscaping.

101.28 pounds of fish were used in the month of April as field technicians have put in extra hours visiting their known green pools and spring sources to control larval development. Fish usage is anticipated to increase as we move into summer. Daily activities such as medical treatments if necessary and tank cleaning were also performed to maintain high quality fish.

#### Log of Treatment Applied

| <u>Material</u> | <u>AMT</u> | <u>Area Treated</u> | <u>Rate</u> | <u>Treatments</u> |
|-----------------|------------|---------------------|-------------|-------------------|
| Mosquitofish    | 101.28 lbs | 366.4 Acres         | .27lb/acre  | 818               |
| Guppies         | .125 lb    | 500 Sqft            | .025lb/Sqft | 5                 |

#### Fish Plants by Crew

Fisheries-8 lbs, North Sac-42.93 lbs, South Sac-21 lbs, Yolo-29.34 lbs

#### Fisheries Budget

| <u>Total</u> | <u>Spent</u> | <u>Remaining</u> | <u>% Spent</u> |
|--------------|--------------|------------------|----------------|
| 24,990.00    | 15,336.70    | 9,653.30         | 61%            |

Running total of fish usage for 2019 161.14 lbs

Fisheries-10.11 lbs, North Sac- 76.12 lbs, South Sac-32.51 lbs, Yolo-42.4 lbs, Eco-lbs

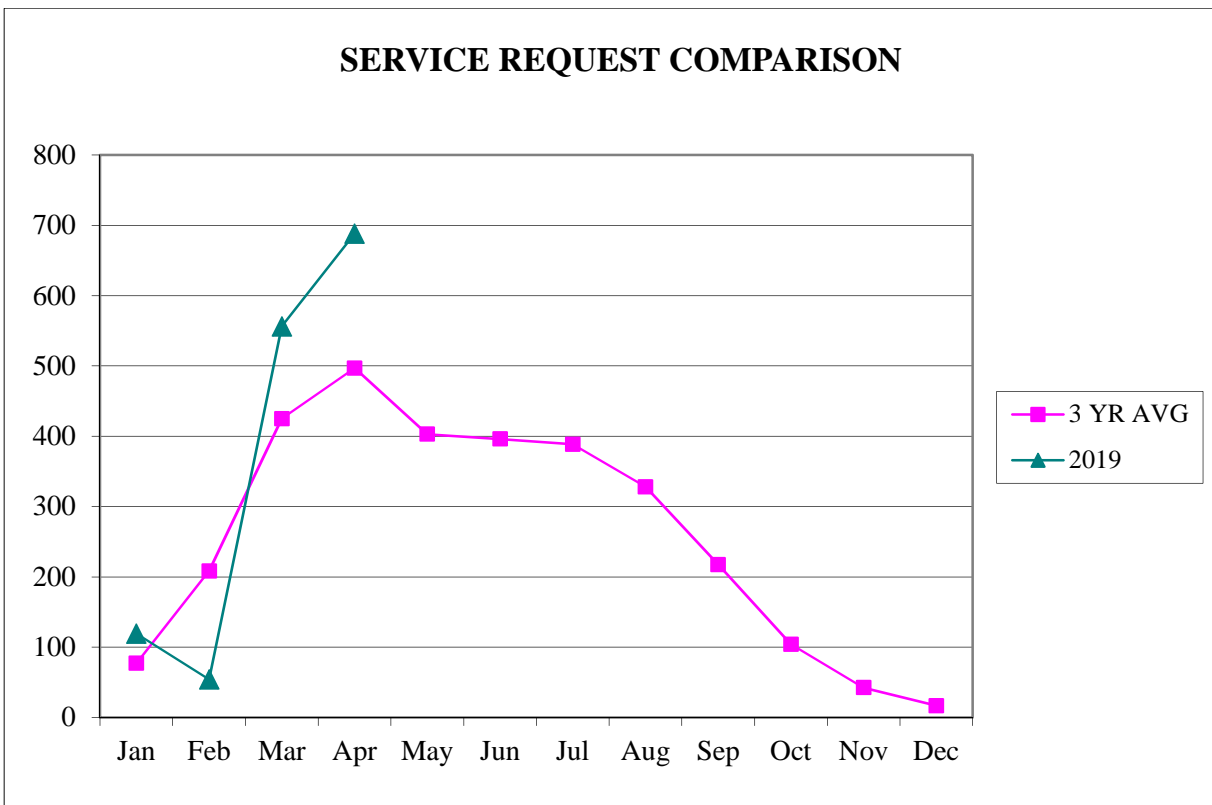


On the left is a pond being fertilized with chicken manure and the right is pond dye being added, two examples of creating a visual predatory exclusion.

## CONTROL OPERATIONS

### Monthly Report for May 2019 Board Meeting

Field Crews have been in their zones checking and treating sources. Many areas in Yolo County have been flooded but water is receding quickly now and most areas are accessible by technicians. Total rice acreage is still unknown at this time but technicians are turning in rice grower agreements as they receive them. Many of the rice fields in Yolo County are being prepared for planting. Morning ULV response have been performed in both counties due to high *Aedes* populations. Many trials are in the beginning phases for this upcoming year looking at larval control in both residential and urban areas. The District's aerial applicators will be calibrated in May to be ready to respond to anticipated orders for both larvicide and adulticide activities.



\* based on MapVision and VCMS data

| <b>Larvicide Applications thru April 30<sup>th</sup></b> |                     |              |                      |              |
|--|---------------------|--------------|----------------------|--------------|
|  | <u>2019</u>         |              | <u>2018</u>          |              |
| <u>Locations/Roles</u>                                   | <u>Treatments</u>   | <u>Acres</u> | <u>Treatments</u>    | <u>Acres</u> |
| Sacramento County  | 612                 | 433          | 1348                 | 754.8        |
| Sac County Aerial  | 0 orders, 0 sources | 0            | 1 orders, 5 sources  | 710          |
| Yolo County  | 142                 | 174          | 156                  | 1774.5       |
| Yolo County Aerial                                       | 0 orders, 0 sources | 0            | 1 orders, 11 sources | 1719         |
| CB Treated   | 21,323              | --           | 12,343               | --           |
| CB Inspected -not treated                                | 24,828              | --           | 6,364                | --           |

| <b>Aerial Adulticide Summary thru April 30<sup>th</sup></b> |                       |              |                       |              |
|---|-----------------------|--------------|-----------------------|--------------|
|   | <u>2019</u>           |              | <u>2018</u>           |              |
| <u>County</u>   | <u># Applications</u> | <u>Acres</u> | <u># Applications</u> | <u>Acres</u> |
| Sacramento Ag   | 0                     | 0            | 0                     | 0            |
| Sacramento Urban  | 0                     | 0            | 0                     | 0            |
| Yolo Ag   | 0                     | 0            | 0                     | 0            |
| Yolo Urban  | 0                     | 0            | 0                     | 0            |
| Totals  |                       | 0            |                       | 0            |

### **VDCI Summary through April 30<sup>th</sup>, 2019**

**compared to: 2018**

|                                |         |         |
|--------------------------------|---------|---------|
| Contract Acres (our portion) = | 530,000 | 530,000 |
| Acres used =                   | 0       | 0       |
| Acres remaining =              | 530,000 | 530,000 |
| % Acres used =                 | 0%      | 0%      |
| % Acres remaining =            | 100%    | 100%    |

San Joaquin County MVCD has not used any of their 190,000 acre contract commitment.  
Placer MVCD has not used any of their 100,000 acre commitment.  
Turlock MAD has not used any of their 180,000 acre commitment.

## **PUBLIC INFORMATION AND EDUCATION**

### **Monthly Report for May 2019 Board Meeting**

#### **Advertising and Media**

The 2019 advertising campaign was launched during Mosquito Awareness Week and kicked off with radio commercials on select stations as well as leveraged news media interviews. The full Fight the Bite campaign across all platforms will kick off closer to the Memorial Day holiday to ensure we are promoting messages regarding the importance of staying protected during the holiday as many people enjoy camping and spending time outdoors.

This year as part of the advertising campaign we will be debuting new creative concepts that include a new character named “Skeeter” that will be giving the various mosquito prevention tips in our television and radio commercials. As part of our outdoor campaign we will also have traditional and digital billboards as well as large ads on both the inside and outside of light rail trains.

#### **Events:**

May is one of our busiest months for events and we will attend a total of 7 events including 5 days at the Sacramento County Fair. New to our list of outreach events this year is Country in the Park which is very large concert style event held at Cal Expo during the afternoon and early evening hours when mosquitoes are most active. The event was held on May 11<sup>th</sup> and it was a tremendous hit. Since the event was sponsored by a local radio station who is also our media partner, the event was very well attended. Repellent samples were a popular item since mosquitoes were definitely out.

Another great event we’ll be returning to in May is a Walk on the Wildside. This unique event is held at Beach Lake Park on the Stone Lakes Preserve. The event will include wetland tours, a variety of conservation exhibits and many children’s activities. Other events include Kidtopia at Fair Oaks Park, International Kids Day, iFest, Senior Health Fair in Citrus Heights and the Sacramento County Fair.

#### **Website:**

Our new Fight the Bite website has been officially launched and it looks great! Feedback received to date is that it looks clean, modern, eye catching and easy to use.

#### **Government affairs:**

As part of our government affairs and outreach to local elected officials, the upcoming presentations for the month of April:

|                |        |
|----------------|--------|
| Elk Grove      | May 8  |
| Winters        | May 21 |
| Citrus Heights | May 23 |

#### **Presentations:**

Two presentations were given at an afterschool program at John Bidwell Elementary reaching approximately 75 children.



# Sacramento-Yolo Mosquito and Vector Control District

## May 21, 2019 Board Meeting

### 4. Board Review and Discussion of District Plan for 2019 Rice Larvicide Applications and Aerial Adulticiding Program

#### Staff Report:

#### RICE LARVICIDE PROGRAM

The rice acreage for this season is still to be determined. There is an increase of availability of water for growers due to the rain we have experienced during the spring. Additionally, the price of rice is up from last year. Based on these reasons the District may see an increase in rice acreage from last year. Staff will be able to provide an estimate for rice acreage during the June board meeting.

We will continue using *Bacillus thuringiensis var. israelensis* (Bti) products as the primary active ingredient in the larvicide program. We have liquid and granular options for both conventional rice as well as organic rice. We applied approximately 1,200 gallons of the aqueous larvicides and over 600,000 lbs of the granular products last season. It should be noted that the products for organic rice cost more than the ones for conventional rice. In order to assist with mosquito control in the organic rice habitat we plan on producing enough fish to stock organic rice fields at a higher rate than we use for conventional rice fields. We did this successfully last year and plan on stocking at this higher rate again this season.

#### Cost of Larvicide Products used in Rice:

| Product                      | Cost        | Cost per Acre    | Organic |
|------------------------------|-------------|------------------|---------|
| Vectobac 12AS (8-16 floz/ac) | \$28.70/gal | \$1.79 - \$3.59  | No      |
| Vectobac WDG (3-5 oz/ac)     | \$36.97/lb  | \$6.93 - \$11.55 | Yes     |
| Vectobac GR (5lb/ac)         | \$1.81/lb   | \$9.05           | Yes     |
| Vectobac GS (5lb/ac)         | \$1.45/lb   | \$7.25           | No      |

This year the District is looking to do more frequent larvicide treatments in rice fields located close to population centers. This will provide better control in areas close to residents by reducing abundance and in turn lower amplification of West Nile virus. Farm Air will continue to be our primary aerial larvicide applicator. We have performed characterization of their planes and have discussed the new larviciding strategy with the owners. We expect to have very good service from them again this year.

## AERIAL ADULTICIDE PROGRAM

Last year was the fifth year of our VDCI contract for adult aerial mosquito control. Our portion of the contract specifies a maximum acreage of 530,000 acres of treatments at the contract price. Any overage is charged as an additional expense. Last season we treated 580,639 acres due to mosquitoes produced in the rice field habitat. The total acreages in the following areas were done last season; the Winters area was treated 10 times, D108 area - 26 times, El Macero/south bypass/Davis area -12 times, the Merritt area - 12 times, and the Natomas rice area – 18 times. We again utilized “buffer” blocks to reduce mosquitoes moving from the rice habitat into populated areas where we had West Nile virus indicators.

Adulticiding in the rice habitat last year involved both aerial applications by VDCI and truck applications by our field technicians. We will continue utilizing both of these application methods this season and plan on continuing our evaluations of our spray events to further maximize our effectiveness in this mosquito habitat.

The District’s adult mosquito control program utilizes two main products during the year. Pyrethrin is used at the beginning of the season and then the District switches to Naled for the end of the season.

The organic fields present an issue in controlling adult mosquitoes as there is only one product available for use over organic properties, Merus 3.0 by Clarke. We will continue to use this product if necessary in the organic rice fields to suppress the adult mosquito population. The cost of this organic approved product is \$2.42 per acre vs the typical cost of \$1.05 per acre for conventional pyrethrin products.

**Recommendation:**  
**Report to the Board.**

# **Sacramento-Yolo Mosquito and Vector Control District**

## **May 21, 2019 Board Meeting**

### **5. Board Review and Discussion of Draft District Budget for 2019-2020**

#### **Staff Report:**

Please find enclosed the first draft of the 2019-2020 District Budget.

A few highlights of the draft budget:

- 1) Revenue projections are estimated to be 5.5% higher in Sacramento County and 3.5% higher in Yolo County. The District received revenue in excess of expected values as highlighted in the 2018-2019 Budget. Expenditures for 2018-2019 are trending lower than the expected values; however the District made a \$4M dollar payment to CalPERS to help pay the unfunded liability which will show that expenditures exceeded revenues for this fiscal year.
- 2) The budget as currently drafted will result in ~\$117,331 deficit.
- 3) The District's expenditure for the Unfunded Accrued Liability (UAL) for PERS is continuing to increase. The expected payment to CalPERS for the UAL is \$919,417 which is \$153,861 higher than last year and we anticipate that there will be increasing payments each year until 2031.
- 4) The District is planning to investigate a number of capital expenditure projects this fiscal year including roof repairs in Woodland, parking lot sealing, potential remodel of the laboratory building to facilitate in house PCR testing, and netting more of the ponds to yield higher fish production. We will also be buying more equipment needed to conduct daily activities and possibly buying another unmanned aerial system to enhance the Ecological Management Department. The research budget is currently at \$50,000. The District has a history of contributing to the AMCA Research Foundation (AMCARF) and/or looking for projects locally that may have a direct impact to the District. Research is imperative to the growth and support of vector control.
- 5) The Consumer Price Index (CPI) for the West Region (as found on the U.S. Department of Labor, Bureau of Labor Statistics web site) for March 2019 is ~2.4%. Historically, the District has based its annual

salary increase proposals on the March CPI and staff proposes granting a 2.4% salary increase adjustment for FY 2019-2020. Granting this proposed salary increase adjustment for the unrepresented employees would result in an increase in expenditures of approximately ~ \$48,635 (\$41,350 in direct salary and \$7,285 in CalPERS costs). This additional cost is not included in the current draft of the budget.

- 6) The discussion of any proposals to adjust the salaries of the represented employees in the MOAT unit is a part of the collective bargaining process and will be presented for consideration along with any addendums to the Memorandum of Understanding (MOU) when negotiations are completed and a final proposal is brought to the Board.

**Recommendation:**

**For Board review and discussion. Staff anticipates bringing the 2019-2020 Budget to the Board again in June as another draft and then for adoption at the July meeting.**



## **Sacramento-Yolo Mosquito and Vector Control District**

### **Fiscal Year 2019-2020 Budget**

**ANTICIPATED REVENUES AND ESTIMATED EXPENDITURES****Revenues**

Fiscal year revenue is determined through a growth forecast provided by the auditor controller of each County. These estimates are based on the preliminary tax rolls as of July 1. Prior to the beginning of the fiscal year, and during the budget process, the counties can provide only estimates of growth based on new building starts and general economic conditions.

Several revenue categories are affected by property tax growth within Sacramento and Yolo Counties. These categories consist primarily of current secured and current unsecured tax monies. The District apportionment factor for secured and unsecured properties ranges between 0.007-0.008 of 1% of total valuation.

**Sacramento County**

| Year      | Roll Values       | Amount of Change | Percentage Change |
|-----------|-------------------|------------------|-------------------|
| 2018-2019 | \$168,181,179,703 | \$10,633,074,991 | 6.75%             |
| 2017-2018 | \$157,548,104,712 | \$9,495,699,299  | 6.41%             |
| 2016-2017 | \$148,052,405,413 | \$7,361,121,567  | 5.23%             |
| 2015-2016 | \$140,691,283,846 | \$6,193,465,438  | 4.60%             |
| 2014-2015 | \$134,497,818,408 | \$8,186,226,622  | 6.48%             |
| 2013-2014 | \$126,311,591,786 | \$4,816,559,925  | 3.96%             |
| 2012-2013 | \$121,495,031,861 | -\$3,316,714,715 | -2.66%            |
| 2011-2012 | \$124,811,746,576 | -\$3,957,804,112 | -3.07%            |
| 2010-2011 | \$128,769,550,688 | -\$2,857,967,297 | -2.17%            |
| 2009-2010 | \$131,627,517,985 | -\$9,002,844,284 | -6.40%            |
| 2008-2009 | \$140,630,362,269 | \$2,923,341,534  | 2.13%             |

**Yolo County**

| Year      | Roll Values      | Amount of Change | Percentage Change |
|-----------|------------------|------------------|-------------------|
| 2018-2019 | \$27,213,887,559 | \$1,458,729,298  | 5.66%             |
| 2017-2018 | \$25,755,158,261 | \$1,291,138,670  | 5.28%             |
| 2016-2017 | \$24,464,019,591 | 1,224,570,521    | 5.27%             |
| 2015-2016 | \$23,239,449,070 | \$1,420,848,471  | 6.51%             |
| 2014-2015 | \$21,818,600,599 | \$1,343,122,551  | 6.56%             |
| 2013-2014 | \$20,475,478,048 | \$817,237,298    | 4.16%             |
| 2012-2013 | \$19,658,240,750 | -\$57,208,464    | -0.29%            |
| 2011-2012 | \$19,715,449,214 | -\$158,163,578   | -0.80%            |
| 2010-2011 | \$19,873,612,792 | -\$386,889,416   | -1.91%            |
| 2009-2010 | \$20,260,502,208 | -\$66,376,927    | -0.33%            |
| 2008-2009 | \$20,326,879,135 | \$656,503,045    | 3.34%             |

### **Anticipated Revenues**

Anticipated revenues are generated from past performance with projections added from assessed value growth in both counties. Preliminary growth estimates from Sacramento County suggest an increase of 5.5%, while Yolo County suggests an increase of 3.5%. If this remains consistent, we conservatively anticipate fiscal year 2019-2020 revenues, including supplemental tax and non-tax revenues, to be approximately **\$15,040,233** as outlined below:

|   |                  |
|---|------------------|
| Sacramento County Property Tax Revenues | \$ 12,456,093.67 |
| Minus property tax administration fees  | \$ 150,470.00    |
| Subtotal                                | \$ 12,305,686.67 |

|  |                 |
|--|-----------------|
| Yolo County Property Tax Revenues      | \$ 2,058,546.04 |
| Minus property tax administration fees | \$ 24,000.00    |
| Subtotal                               | \$ 2,034,546.04 |

|  |                  |
|--|------------------|
| Anticipated Total Property Tax Revenue | \$ 14,340,232.71 |
|--|------------------|

|   |               |
|---|---------------|
| Anticipated Interest Earnings                         | \$ 100,000.00 |
| Other Tax Revenues                                    | \$ 400,000.00 |
| Other Revenue (rent, mosquito control payments, etc.) | \$ 200,000.00 |

|  |                  |
|--|------------------|
| Anticipated Total Revenues for FY 2019-2020: | \$ 15,040,232.71 |
|--|------------------|

### **Cash In Bank**

The District will start off with “cash in bank” often equal to the amount of revenue received for a fiscal year, and may give the appearance of over funded, but does not take into account the need for “dry financing” cash to sustain operations between tax receipts. The District anticipates starting the 2019-2020 fiscal year with \$10,228,936.

**District Fund Balance**-Pursuant to Resolution 06-21-11 (District Fund Balance Policy), District reserves have been placed in the following three categories:

### **Committed Fund Balance**

The Board of Trustees, as the District’s highest level of decision-making authority, may commit fund balance for specific purposes pursuant to constraints imposed by formal actions taken, such as a resolution. These committed amounts cannot be used for any other purpose unless the Board of Trustees removes or changes the specified use through the same type of formal action taken to establish the commitment. The Board of Trustees action to commit fund balance needs to occur within the fiscal reporting period; however the amount can be determined subsequently.

- **Reserve for Vector / Disease Response**

The District's General Fund balance committed for a public health emergency is established at \$2,000,000. The specific uses include overtime hours, additional aircraft work, and additional larval control in the event of a public health emergency requiring immediate District response that cannot be absorbed through the existing budget.

- **Capital Expenditures**

Fund balance levels must be sufficient to meet funding requirements for capital expenses of: capital outlay, research, and building improvement. \$700,000 is currently assigned for this category.

*If approved, a total of \$553,049 would be allocated to the Capital Expenditure accounts as follows:*

**19-20 Proposed Capital Expenditures**

7011 Capital Outlay

| Dept.     | Description    | Amount     |
|-----------|----------------|------------|
| Control   | Mule           | \$ 9,000   |
| Control   | ATV Trailers   | \$ 3,000   |
| Control   | ATV Fogger     | \$ 2,350   |
| Eco Mgmt. | UAS Units      | \$ 41,699  |
| Fisheries | Netted Pond(s) | \$ 60,000  |
|           | Subtotal       | \$ 116,049 |

7030 Research

| Dept. | Description              | Amount    |
|-------|--------------------------|-----------|
| Admin | Research Grant to AMCARF | \$ 50,000 |
|       | Subtotal                 | \$ 50,000 |

7035 Building Improvement

| Dept.      | Description                    | Amount     |
|------------|--------------------------------|------------|
| Lab        | Laboratory Remodel             | \$ 290,000 |
| Facilities | Woodland and Bond Roof Repairs | \$ 72,000  |
| Facilities | Parking Lot                    | \$ 25,000  |
|            | Subtotal                       | \$ 387,000 |

Grand Total Capital Expenditures                      \$ 553,049

**Assigned Fund Balance**

Amounts that are constrained by the District's *intent* to be used for specific purposes, but are neither restricted nor committed, should be reported as assigned fund balance. District policy delegates the authority to assign amounts to be used for specific purposes to the Manager for the purpose of reporting these amounts in the annual financial statements.

- **Salaries and Benefits**

Fund balance levels must be sufficient to meet funding requirements for salaries, PERS retirement, group insurance, unemployment insurance.



- **Operational Expenditures**

Fund balance levels must be sufficient to meet funding requirements for operational functions of: liability insurance, auditing/fiscal services, communications, public information, structure and grounds, membership/education/training, office, professional services, material and supplies, rents and leases, safety program, utilities, aircraft services, ecological management, microbials, biorationals, insecticides, fisheries, geographic information systems, information technology, control operations, vehicle parts and labor, lab services, gas and petroleum.

- **Cash with Fiscal Agent**

Fund balance levels must be sufficient to meet funding requirements of Vector Control Joint Powers Agency. The established prudent balance is figured using two potential “hits” or cases per category as illustrated in the table below.

As of 3/31/19 the District’s VCJPA Member Contingency Fund (MCF) balance is \$1,391,981 and the Property Fund Balance is \$106,236. The estimated balance at 6/30/19 is \$1,397,646 in the MCF and \$106,777 in the PCF for an approximate total estimated Cash with Fiscal Agent of \$1,504,423.

| Policy/Payment Type                      | Deductible | Premium    | x2           |
|--|------------|------------|--------------|
| Workers' Comp                            | \$ 50,000  |            | \$ 100,000   |
| Liability                                | \$ 50,000  |            | \$ 100,000   |
| APD                                      | \$ 500     |            | \$ 1,000     |
| Property                                 | \$ 500     |            | \$ 1,000     |
| Premium Deposit                          |            | \$ 296,098 | \$ 592,196   |
| Suggested Prudent Balance                |            |            | \$ 794,196   |
| Estimated Balance as of 6/30/19          |            |            | \$ 1,504,423 |
| 19-20 Premium                            |            |            | \$ 313,964   |
| Est. Balance minus Premium               |            |            | \$ 1,190,459 |
| Est. Payment to Maintain Prudent Balance |            |            | \$ -         |

### **Unassigned Fund Balance**

These are residual positive net resources of the general fund in excess of what can be properly classified in one of the other four categories. This accounts for the need of “dry financing” cash to sustain operations between tax receipts, as well as any reductions in revenues from unrealized growth. District staff anticipates this to be approximately \$7,675,887.

## **ANTICIPATED EXPENDITURES**

### **Personnel Expenditures**

The District expenditures for salaries, temporary help, retirement and insurance are \$8,429,344. Per previous Board direction this figure does not include 7 Board authorized positions that staff is proposing to continue to leave vacant.

The Consumer Price Index (CPI-U) for the West Region as found on the U.S. Department of Labor, Bureau of Labor Statistics web site for March 2019 is ~2.4%. Based on the CPI staff proposes granting a salary increase of 2.4% for the non-represented employees.

Any proposal to modify salary and/or benefits for the represented employees within the MOAT unit is a part of the collective bargaining process and will be presented for consideration along with any proposals related to the Memorandum of Understanding (MOU) between the District and OE3 when that is brought to the Board.

**The following categories are breakdowns of the Personnel Expenditures:**

**Retirement Fund-5110 & 5115**

The Tier 1 (2.5% at 55) employer contribution rate for 19/20 will be a total of 34.503%. This represents the employer normal cost rate (11.936%) plus the employer payment of unfunded liability (22.567%). The District also pays the employee contribution on behalf of employees hired before January 2013 and that remains at 8% of gross payroll.

The unfunded liability for Tier 1 will be invoiced monthly at \$76,519.30 for an annual total of \$918,232. The unfunded liability can be paid as invoiced monthly or it can be paid as a lump sum of \$886,653, a potential savings of \$31,579.

The Tier 2 (2% at 62) employer contribution rate for 19/20 will be 7.494%. With 17 employees in this group the unfunded liability payment due for 19/20 is at \$1,185. This can be paid as a lump sum amount of \$1,144 for a potential savings of \$41. The employee contribution is paid by the employees and the contribution rate of 6.75% (max of 8%) will remain the same.

The rates for Tier 2 will change in future years as changes occur in the demographics, assumptions and discount rate of the group.

**PERS Retirement Normal Costs**

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$857,079        | \$857,079                  | \$880,178                 |

**PERS Retirement Unfunded Accrued Liability (UAL)**

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$765,556        | \$738,978                  | \$919,417                 |

**Group Insurance-5130**

District policy for group insurance funds up to \$1100.00 per employee per month if medical insurance is taken and \$650 per employee per month if medical insurance is waived. This provides funds for employees to purchase major medical, dental, vision, long-term disability, and basic life insurance. Benefits are provided on a calendar year basis and rates for the second half of the fiscal year are not known until renewal occurs in the fall. This figure includes calculations for current enrollments with an estimated 20% increase for 2020. Enrollment changes due to qualifying events throughout the year may cause this number to fluctuate.

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$650,000        | \$550,000                  | \$650,000                 |

**Retiree Insurance 5131**

When establishing the CERBT account for Other Post-Employment Benefits (OPEB) the District made a payment to fully “Fund” the account. The actuarial valuation of the account is done every two years adjusting for changes in the demographics, assumptions and discount rate of the group. As a result the funding ratio of the explicit subsidy is at 102.7% as of 7/1/17. The funding ratio of the implicit subsidy is at 0% bringing the total Funded Ratio to 63.1%. Staff recommends paying the cost of premiums for current retirees estimated at \$105,000 for the fiscal year. No payments to the Trust are proposed with this budget.

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$ 115,000       | \$115,000                  | \$105,000                 |

**Unemployment Insurance-5140**

Unemployment expenses varies year to year depending on the number of unemployed employees, the number of months unemployed, and the amount of salary received prior to release from employment.

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$30,000         | \$30,000                   | \$30,000                  |

**Worker’s Compensation-5150**

The workers compensation budget consists of the amount to cover all claims for the current year and is programmed to fund current claim expenses that continue for up to 48 months. The Vector Control Joint Powers Agency determines the District’s 2019-2020 fiscal year payment based on the estimated annual payroll and is adjusted to the actual annual payroll and claims experience at the end of the fiscal year.

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$168,228        | \$ 168,228                 | \$174,148                 |

**Operational Expenditures**

Each category is listed in the following pages with a brief description of the items in the various categories.

**Liability Insurance-5210**

The liability insurance account provides coverage for general liability, vehicle liability, automobile comprehensive and collision coverage, property damage, boiler machinery coverage, airplane coverage, employment and overhead expenses for services which do not directly relate to any particular insurance program. The estimated rates for all liability coverage are based on annual payroll and claims as provided by the VCJPA.

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$136,922        | \$136,922                  | \$149,816                 |

**Auditing / Fiscal Fee-5250**

All services for auditing and preparation of the State Controllers report are drawn from this account, as well as GASB compliance procedures and documents.

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$15,500         | \$17,750                   | \$17,750                  |

**Communications-5270 & 6250**

Monthly service and maintenance for telephones, mobile phones, and any new installations draw from this account. Established internet connections for laptops and tablets are also reflected in this category. This includes our office phone system and communication devices used by our field personnel.

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$79,500         | \$79,500                   | \$79,500                  |

**Public Information Programs-5310**

Services and supplies for the education program include pamphlets, bookmarks, stickers, leaflets, and booth entry fees. We intend to have an aggressive outreach program to educate the public regarding WNV, Invasive species, *Aedes albopictus* and *Aedes aegypti*, and other mosquito issues.

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$434,800        | \$434,800                  | \$465,500                 |

**Structure and Grounds-5340**

This account provides for expenditures needed to build, maintain, and repair the structures, buildings, and grounds at District-owned facilities. This includes maintenance costs such as painting, plumbing, electrical, herbicides and other repairs.

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$ 65,000        | \$65,000                   | \$65,000                  |

**Memberships, Education, and Training-5370**

This fund provides for AMCA and MVCAC conference and meeting expenses, which are attended by Trustees and District staff. Other items include the Holiday gathering, MVCAC and AMCA dues, publications, and employee training (computer, supervisory, etc.). Travel to various association meetings has been included.

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$113,000        | \$113,000                  | \$113,000                 |

**Office Expenses-5390**

All costs for office equipment maintenance, maps, postage, stationary, office supplies, field binders and books are included in this account.

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$15,000         | \$15,000                   | \$15,000                  |

**Professional Services-5430**

This account provides for attorney fees, consultant fees, soil/water testing, pre-employment physicals, uniforms, drug testing, water quality compliance, aerial surveys and related outside services.

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$139,200        | \$139,200                  | \$192,000                 |

**Materials and Supplies-5440**

The materials and supplies line item covers a large number of items that are used in the shop and the field but are not accounted for in other areas.

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$10,000         | \$10,000                   | \$10,000                  |

**Rents and Leases-5450**

This category funds special shop tools, copiers and large format printer, field equipment, and other items that are rented/leased.

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$8,750          | \$8,750                    | \$11,000                  |

**Safety Program-5470**

This category funds the District Safety Program.

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$5,000          | \$5,000                    | \$5,000                   |

**Utilities-5480**

Utility charges to the District are forecast based on previous year expenditures.

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$100,000        | \$100,000                  | \$110,000                 |

**Aircraft Services-6120**

This item reflects the contract with VDCI to address adult mosquito control, as well as Farm Air larviciding work. We intend to perform validation trials to ensure we are getting maximum performance from our larviciding treatments.

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$809,297        | \$809,297                  | \$945,500                 |

**Ecological Management Department-6140**

This category is used to track our expenses to enhance BMP practices on various land uses including, but not limited to, agricultural, wetland, or other similar habitats. This department has 3 employees (One Supervisor and 2 technicians) in addition to 1 backhoe and other heavy equipment. We propose to continue to assist in the implementation of BMP's with this category.

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$17,600         | \$17,600                   | \$15,200                  |

**Microbial-6160**

This category incorporates various larvicide materials including *Bacillus thuringiensis*, *Bacillus sphaericus*, and spinosad. This account is used for field larvicides and any laboratory experiments. The expenditure in this account can vary from year to year depending on the amount of water available for irrigation of agricultural crops and wetlands.

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$1,336,000      | \$1,336,000                | \$1,500,000               |

**Biorationals-6170**

This category incorporates various larvicide materials with methoprene as an active ingredient. This account is used for field larvicides and any laboratory experiments. The expenditure in this account can vary from year to year depending on the amount of water available for irrigation of agricultural crops and wetlands.

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$902,620        | \$902,620                  | \$950,000                 |

**Insecticides-6180**

This category incorporates all of the materials used for adulticiding or oils for larviciding including any District experiments. The expenditure in this account can vary from year to year depending on the amount of water available for irrigation of agricultural crops and wetlands. The increase over previous years budget incorporates the amount needed to fulfill the VDCI contract.

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$765,000        | \$765,000                  | \$1,000,000               |

**Fisheries Department-6220**

Our mosquitofish hatchery at Bond Road supplies the public with mosquitofish and other predatory fish. It also provides fish for rice fields, wetlands, and other relatively permanent water sites. The department also exchanges fish with outside Districts for genetic reasons.

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$24,990         | \$24,990                   | \$27,000                  |

**Geographic Information Systems-6280**

This category addresses our Geographic Information programs, and includes expenses for aerial photographs, software updates, and printer capabilities. The department continues to work on the development of online source reporting and maintenance to streamline automation. The inclusion of new and emerging programs will be evaluated to help the District obtain up to date information.

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$6,925          | \$6,925                    | \$6,625                   |

**Information Technology-6320**

This category addresses software requirements and hardware capabilities for all other administrative and department uses, and includes software licensing, hardware, and other associated costs. The evolution of the IT department has created the need for efficient and updated data management. The department is also evaluating systems integration that will provide greater accessibility to the public to be able to interface with District services.

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$31,450         | \$31,450                   | \$41,650                  |

**Control Operations-6350**

All non-vehicle associated equipment such as, sprayers, hand-cans, dusters, and safety equipment are provided for in this account.

| 2017-2018 Budget | 2017-2018 Est. Expenditure | Proposed 2018-2019 Budget |
|------------------|----------------------------|---------------------------|
| \$28,710         | \$28,710                   | \$32,430                  |

**Shop -6370**

The District uses this fund for all repairs, parts and maintenance to the trucks and associated spray equipment, tractors, backhoes, trailers, and ATV's the District owns. Also included in this account is the outside labor and service.

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$88,000         | \$88,000                   | \$88,000                  |

**Laboratory Services-6420**

The Laboratory Services fund will continue to provide for the mosquito colony, the light trap program, the EVS surveillance program, tick surveillance program, resistance program, and general laboratory supplies and equipment.

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$156,600        | \$156,600                  | \$163,200                 |

**Gas and Petroleum Products-6450**

Uncertainties in oil producing regions make this category volatile at best.

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$143,500        | \$143,500                  | \$172,000                 |

**Capital Outlay/CIP-7011 & 1510**

The fund balance created pursuant to GASB 54 reflects an amount of \$700,000 for this category. An itemized list of all of the planned Capital Outlay and Construction in Progress expenditures is on page 4 of this report.

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$ 204,000       | \$204,000                  | \$ 116,049                |

**Emergency Vector Response-7022**

This account is used to track unanticipated emergency responses made by the District. The District has \$2 million dollars in reserve in the event of a public health emergency requiring immediate District response that cannot be absorbed through the existing budget. This may include overtime hours, additional aircraft work, and additional larval control.

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$0              | \$0                        | \$0                       |

**Research Fund-7030**

Staff proposes \$50,000.00 be allocated to the American Mosquito Control Association Research Foundation (AMCARF) be used for miscellaneous research projects.

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$50,000         | \$50,000                   | \$50,000                  |

**Building Improvement Fund-7035**

This account was created to enhance our existing buildings or address critical maintenance issues. The Fund balance created pursuant to GASB 54 will be reflected in the Capital Outlay category.

| 2018-2019 Budget | 2018-2019 Est. Expenditure | Proposed 2019-2020 Budget |
|------------------|----------------------------|---------------------------|
| \$160,000        | \$160,000                  | \$387,000                 |

**2019-2020 Budget Summary**

|   |                           |
|---|---------------------------|
| Personnel Expenditures-Salaries and Benefits: | \$ 8,429,344              |
| Operational Expenditures:                     | \$ 6,175,171              |
| Capital Expenditures:                         | \$ 553,049                |
| Total Expenditures:                           | <u>\$ 15,157,564</u>      |
| Total Anticipated Revenues:                   | \$ 15,040,233             |
| Projected Revenues over Expenses:             | <u><u>\$ -117,331</u></u> |
| Potential Deficit at June 30, 2019            | \$ (117,331)              |



S.Y.M.V.C.D  
FY 2019-2020 Budget

| Account #   | Account Description                | FY 19/20 Budget        | FY 18/19 Budget        | FY 17/18 Actual         | FY 16/17 Actual         |
|-------------|------------------------------------|------------------------|------------------------|-------------------------|-------------------------|
| <b>4000</b> | <b>REVENUE</b>                     | <b>\$ -</b>            | <b>\$ -</b>            | <b>\$ 14,307,842.69</b> | <b>\$ 13,272,997.85</b> |
| 4010        | Current Secured Taxes              |                        |                        | \$ 12,299,782.81        | \$ 11,570,174.84        |
| 4015        | Current Unsecured Taxes            |                        |                        | \$ 451,943.90           | \$ 446,200.66           |
| 4020        | Prior Unsecured Taxes              |                        |                        | \$ 11,921.38            | \$ 7,930.57             |
| 4025        | Secured Supplemental (SB13)        |                        |                        | \$ 316,830.71           | \$ 244,127.83           |
| 4026        | Unsecured Supplemental (SB13)      |                        |                        | \$ -                    | \$ 75.99                |
| 4030        | Interest                           |                        |                        | \$ 125,321.87           | \$ 96,046.51            |
| 4035        | Rents & Leases                     |                        |                        | \$ 30,082.84            | \$ 30,000.00            |
| 4045        | Homeowners Property                |                        |                        | \$ 131,722.74           | \$ 131,999.10           |
| 4046        | Highway Property Rental            |                        |                        | \$ -                    | \$ -                    |
| 4050        | Other In-Lieu Taxes                |                        |                        | \$ 637,207.25           | \$ 523,227.93           |
| 4055        | Mosquito Control Work              |                        |                        | \$ 21,171.34            | \$ 12,508.55            |
| 4057        | Zika Funding                       |                        |                        | \$ 37,104.52            | \$ -                    |
| 4060        | Sale of Fixed Assets               |                        |                        | \$ -                    | \$ 12,492.14            |
| 4075        | Other Resources                    |                        |                        | \$ 195,694.26           | \$ 87,394.12            |
| 7009        | Gain on Sale of Equipment          |                        |                        | \$ 49,059.07            | \$ 110,819.61           |
| <b>5000</b> | <b>SALARIES/BENEFITS/WC</b>        | <b>\$ 8,429,343.94</b> | <b>\$ 8,040,923.70</b> | <b>\$ 7,353,906.42</b>  | <b>\$ 7,578,639.36</b>  |
| 5010        | Administrative Department          | \$ 861,159.59          | \$ 829,024.18          | \$ 821,794.66           | \$ 765,809.08           |
| 5015        | Ecological Management Department   | \$ 250,085.86          | \$ 243,609.40          | \$ 221,336.19           | \$ 125,877.01           |
| 5020        | Shop                               | \$ 249,684.36          | \$ 239,283.50          | \$ 232,022.45           | \$ 221,503.73           |
| 5025        | Control Ops Supervisors            | \$ 528,429.88          | \$ 523,908.21          | \$ 504,386.32           | \$ 479,147.84           |
| 5030        | Technicians                        | \$ 2,275,417.06        | \$ 2,159,801.54        | \$ 2,124,541.16         | \$ 2,047,868.28         |
| 5031        | Seasonal Helpers                   | \$ 332,638.50          | \$ 275,754.09          | \$ 226,510.14           | \$ 183,983.20           |
| 5040        | Biological Control: Lab Dept       | \$ 924,609.13          | \$ 939,769.24          | \$ 886,269.86           | \$ 889,424.18           |
| 5041        | Biological Control: Fisheries Dept | \$ 231,783.06          | \$ 227,117.29          | \$ 185,481.08           | \$ 204,808.29           |
| 5045        | Trustee Monthly Meeting            | \$ 16,793.40           | \$ 16,793.40           | \$ 14,640.40            | \$ 12,595.05            |
| 5110        | P.E.R.S. Retirement Normal Costs   | \$ 880,178.10          | \$ 857,078.85          | \$ 766,820.15           | \$ 1,866,661.06         |
| 5115        | P.E.R.S. Retirement UAL            | \$ 919,417.00          | \$ 765,556.00          | \$ 601,797.00           |                         |
| 5130        | Group Insurance                    | \$ 650,000.00          | \$ 650,000.00          | \$ 437,847.70           | \$ 518,590.64           |
| 5131        | Retiree Insurance Costs            | \$ 105,000.00          | \$ 115,000.00          | \$ 106,445.31           | \$ 76,384.00            |
| 5136        | 401A                               | \$ -                   | \$ -                   | \$ 15,600.00            | \$ 7,800.00             |
| 5140        | Unemployment Insurance             | \$ 30,000.00           | \$ 30,000.00           | \$ 16,153.00            | \$ 18,661.00            |
| 5150        | WORKERS COMPENSATION               | \$ 174,148.00          | \$ 168,228.00          | \$ 192,261.00           | \$ 159,526.00           |
| <b>5200</b> | <b>OPERATIONAL</b>                 | <b>\$ 6,175,171.00</b> | <b>\$ 5,433,364.00</b> | <b>\$ 4,568,614.89</b>  | <b>\$ 4,897,474.37</b>  |
| <b>5210</b> | <b>LIABILITY INSURANCE</b>         | <b>\$ 149,816.00</b>   | <b>\$ 136,922.00</b>   | <b>\$ 121,642.56</b>    | <b>\$ 134,767.00</b>    |
| <b>5250</b> | <b>AUDITING/FISCAL</b>             | <b>\$ 17,750.00</b>    | <b>\$ 15,500.00</b>    | <b>\$ 14,800.00</b>     | <b>\$ 13,000.00</b>     |
| <b>5270</b> | <b>COMMUNICATIONS</b>              | <b>\$ 79,500.00</b>    | <b>\$ 79,500.00</b>    | <b>\$ 68,632.35</b>     | <b>\$ 75,292.18</b>     |
| 5271        | Telephone                          | \$ 38,500.00           | \$ 38,500.00           | \$ 31,856.50            | \$ 31,926.28            |
| 5272        | Internet                           | \$ -                   | \$ -                   | \$ -                    | \$ -                    |
| 6251        | Mobile Devices                     | \$ 41,000.00           | \$ 41,000.00           | \$ 36,775.85            | \$ 43,365.90            |
| 6252        | Weather Stations                   | \$ -                   | \$ -                   | \$ -                    | \$ -                    |
| <b>5310</b> | <b>PUBLIC INFORMATION</b>          | <b>\$ 465,500.00</b>   | <b>\$ 434,800.00</b>   | <b>\$ 360,144.31</b>    | <b>\$ 344,450.88</b>    |
| 5311        | School Program                     | \$ 42,000.00           | \$ 39,500.00           | \$ 25,473.71            | \$ 21,119.24            |
| 5312        | Publications                       | \$ 13,500.00           | \$ 26,000.00           | \$ 10,006.30            | \$ 4,620.95             |
| 5313        | Marketing                          | \$ 20,000.00           | \$ -                   | \$ 2,500.00             | \$ 2,250.00             |
| 5314        | Postage                            | \$ -                   | \$ -                   | \$ -                    | \$ -                    |
| 5315        | Advertising                        | \$ 286,000.00          | \$ 272,500.00          | \$ 265,510.21           | \$ 247,617.25           |
| 5316        | Events/Fees                        | \$ 102,500.00          | \$ 95,000.00           | \$ 56,399.45            | \$ 68,207.23            |
| 5319        | Misc Admin                         | \$ 1,500.00            | \$ 1,800.00            | \$ 254.64               | \$ 636.21               |

S.Y.M.V.C.D  
FY 2019-2020 Budget

| Account # | Account Description         | FY 19/20 Budget | FY 18/19 Budget | FY 17/18 Actual | FY 16/17 Actual |
|-----------|-----------------------------|-----------------|-----------------|-----------------|-----------------|
| 5340      | STRUCTURE & GROUNDS         | \$ 65,000.00    | \$ 65,000.00    | \$ 56,665.78    | \$ 63,663.43    |
| 5341      | Landscaping & Grounds       | \$ 10,000.00    | \$ 10,000.00    | \$ 2,320.11     | \$ 14,101.11    |
| 5342      | Building Services & Repairs | \$ 20,000.00    | \$ 20,000.00    | \$ 18,232.45    | \$ 18,869.48    |
| 5343      | Janitorial                  | \$ 35,000.00    | \$ 35,000.00    | \$ 36,113.22    | \$ 30,692.84    |
| 5370      | MEMBER/TRAINING             | \$ 113,000.00   | \$ 113,000.00   | \$ 80,454.49    | \$ 70,474.87    |
| 5371      | Travel                      | \$ 40,000.00    | \$ 40,000.00    | \$ 14,847.92    | \$ 17,103.71    |
| 5372      | Conference/Training/Mtg     | \$ 35,000.00    | \$ 35,000.00    | \$ 33,030.57    | \$ 24,017.16    |
| 5373      | CDPH-Continuing Education   | \$ 10,000.00    | \$ 10,000.00    | \$ 11,239.00    | \$ 7,670.00     |
| 5374      | Subscrip/Memshp/Dues        | \$ 28,000.00    | \$ 28,000.00    | \$ 21,337.00    | \$ 21,684.00    |
| 5390      | DISTRICT OFFICE EXPENSES    | \$ 15,000.00    | \$ 15,000.00    | \$ 16,329.00    | \$ 13,886.44    |
| 5430      | PROFESSIONAL SERVICES       | \$ 192,000.00   | \$ 139,200.00   | \$ 101,851.37   | \$ 78,334.30    |
| 5376      | Permits/Fees                | \$ 8,000.00     | \$ 8,000.00     | \$ 9,071.20     | \$ 5,974.89     |
| 5431      | Legal                       | \$ 38,000.00    | \$ 38,000.00    | \$ 44,255.81    | \$ 20,866.89    |
| 5432      | Medical                     | \$ 3,000.00     | \$ 3,000.00     | \$ 2,096.00     | \$ 2,323.00     |
| 5433      | Consulting                  | \$ 55,000.00    | \$ 45,000.00    | \$ 7,634.00     | \$ 7,539.00     |
| 5434      | Security                    | \$ 6,000.00     | \$ 5,500.00     | \$ 5,922.40     | \$ 5,057.38     |
| 5435      | Outsource Services          | \$ 30,000.00    | \$ 4,500.00     | \$ 6,506.00     | \$ 5,519.71     |
| 5436      | Maintenance & Repairs       | \$ -            | \$ 7,200.00     | \$ 2,863.56     | \$ 7,665.50     |
| 5437      | Uniforms                    | \$ 27,000.00    | \$ 22,000.00    | \$ 23,502.40    | \$ 23,387.93    |
| 5438      | Aerial Survey               | \$ 25,000.00    | \$ 6,000.00     | \$ -            | \$ -            |
| 5440      | MATERIALS & SUPPLIES        | \$ 10,000.00    | \$ 10,000.00    | \$ 9,199.38     | \$ 7,912.76     |
| 5441      | Water/Coffee                | \$ 5,000.00     | \$ 5,000.00     | \$ 5,265.67     | \$ 5,157.79     |
| 5442      | Janitorial Supplies         | \$ 3,500.00     | \$ 3,500.00     | \$ 2,560.80     | \$ 2,090.57     |
| 5443      | Locks/Keys                  | \$ 250.00       | \$ 250.00       | \$ 501.27       | \$ 27.05        |
| 5444      | Kitchen                     | \$ 750.00       | \$ 750.00       | \$ 649.02       | \$ 637.35       |
| 5445      | Miscellaneous               | \$ 500.00       | \$ 500.00       | \$ 222.62       | \$ -            |
| 5450      | RENTS & LEASES              | \$ 11,000.00    | \$ 8,750.00     | \$ 8,182.10     | \$ 7,998.69     |
| 5470      | SAFETY PROGRAM              | \$ 5,000.00     | \$ 5,000.00     | \$ 3,726.63     | \$ 2,119.70     |
| 5480      | UTILITIES                   | \$ 110,000.00   | \$ 100,000.00   | \$ 92,471.05    | \$ 81,565.31    |
| 6120      | AIRCRAFT SERVICES           | \$ 945,500.00   | \$ 809,297.00   | \$ 577,684.51   | \$ 736,758.23   |
| 6121      | Larviciding                 | \$ 556,500.00   | \$ 480,297.00   | \$ 255,113.79   | \$ 280,264.62   |
| 6122      | Adulticiding                | \$ 380,000.00   | \$ 320,000.00   | \$ 321,079.20   | \$ 455,573.86   |
| 6123      | Trials                      | \$ 9,000.00     | \$ 9,000.00     | \$ 1,491.52     | \$ 919.75       |
| 6140      | ECOLOGICAL MANAGEMENT       | \$ 15,200.00    | \$ 17,600.00    | \$ 7,419.59     | \$ 4,872.46     |
| 6142      | BMP Programs                | \$ 4,500.00     | \$ 5,500.00     | \$ 1,497.35     | \$ 2,674.29     |
| 6143      | Project Support             | \$ 3,000.00     | \$ 3,000.00     | \$ 533.00       | \$ 804.94       |
| 6144      | Small Equip Maintenance     | \$ 2,100.00     | \$ 2,100.00     | \$ 1,726.00     | \$ 1,393.23     |
| 6145      | UAS Program                 | \$ 5,600.00     | \$ 7,000.00     | \$ 3,663.24     | \$ -            |
| 6160      | MICROBIAL                   | \$ 1,500,000.00 | \$ 1,336,000.00 | \$ 994,582.97   | \$ 1,382,135.79 |
| 6170      | BIORATIONALS                | \$ 950,000.00   | \$ 902,620.00   | \$ 796,709.31   | \$ 583,591.00   |
| 6180      | INSECTICIDES                | \$ 1,000,000.00 | \$ 765,000.00   | \$ 806,766.52   | \$ 814,980.75   |
| 6220      | FISHERIES                   | \$ 27,000.00    | \$ 24,990.00    | \$ 23,577.06    | \$ 24,561.23    |
| 6221      | Medications & Feeds         | \$ 13,500.00    | \$ 11,760.00    | \$ 11,093.29    | \$ 12,662.57    |
| 6222      | Lab Supplies                | \$ 1,000.00     | \$ 294.00       | \$ 247.50       | \$ 47.02        |
| 6223      | Supplies/Dept. Equipment    | \$ 12,500.00    | \$ 12,936.00    | \$ 12,236.27    | \$ 11,851.64    |
| 6224      | Fisheries Miscellaneous     | \$ -            | \$ -            | \$ -            | \$ -            |
| 6280      | GEOGRAPHIC INFO SYSTEMS     | \$ 6,625.00     | \$ 6,925.00     | \$ 4,467.00     | \$ 4,802.00     |
| 6281      | Software                    | \$ 5,500.00     | \$ 5,800.00     | \$ 3,749.00     | \$ 4,802.00     |
| 6282      | Accessories                 | \$ 1,125.00     | \$ 1,125.00     | \$ 718.00       | \$ -            |

S.Y.M.V.C.D  
FY 2019-2020 Budget

| Account # | Account Description                           | FY 19/20 Budget  | FY 18/19 Budget  | FY 17/18 Actual  | FY 16/17 Actual  |
|-----------|---|------------------|------------------|------------------|------------------|
| 6320      | INFORMATION TECHNOLOGY                        | \$ 41,650.00     | \$ 31,450.00     | \$ 31,310.94     | \$ 34,271.06     |
| 6321      | Hardware                                      | \$ 21,000.00     | \$ 11,500.00     | \$ 11,374.93     | \$ 20,974.76     |
| 6322      | Software                                      | \$ 20,650.00     | \$ 19,950.00     | \$ 15,309.16     | \$ 13,296.30     |
| 6323      | Supplies                                      | \$ -             | \$ -             | \$ 4,626.85      | \$ -             |
| 6324      | Services                                      | \$ -             | \$ -             | \$ -             | \$ -             |
| 6350      | CONTROL OPERATIONS                            | \$ 32,430.00     | \$ 28,710.00     | \$ 25,341.01     | \$ 18,949.61     |
| 6351      | Supplies                                      | \$ 3,250.00      | \$ 3,250.00      | \$ 3,604.15      | \$ 3,102.59      |
| 6352      | Control Items & Materials                     | \$ 6,560.00      | \$ 6,360.00      | \$ 5,159.70      | \$ 4,405.86      |
| 6353      | PPE/Safety                                    | \$ 15,200.00     | \$ 14,200.00     | \$ 12,228.91     | \$ 8,886.92      |
| 6355      | Small Equipment                               | \$ 7,420.00      | \$ 4,900.00      | \$ 4,348.25      | \$ 2,554.24      |
| 6370      | SHOP  | \$ 88,000.00     | \$ 88,000.00     | \$ 92,846.43     | \$ 151,613.72    |
| 6371      | Parts Vehicles                                | \$ 70,000.00     | \$ 70,000.00     | \$ 63,475.80     | \$ 125,098.54    |
| 6372      | Outsource / Heavy Equipment                   | \$ 10,000.00     | \$ 10,000.00     | \$ 15,992.33     | \$ 16,825.73     |
| 6373      | Equipment Parts & Repair                      | \$ 8,000.00      | \$ 8,000.00      | \$ 13,378.30     | \$ 9,689.45      |
| 6420      | LAB SERVICES                                  | \$ 163,200.00    | \$ 156,600.00    | \$ 154,085.02    | \$ 136,044.66    |
| 6421      | Insectary                                     | \$ 5,600.00      | \$ 5,000.00      | \$ 5,055.45      | \$ 4,959.96      |
| 6422      | Gen'l Lab Supplies                            | \$ -             | \$ -             | \$ 695.94        | \$ -             |
| 6423      | Services                                      | \$ 20,000.00     | \$ 20,000.00     | \$ 6,822.93      | \$ 11,869.19     |
| 6424      | Surveillance                                  | \$ 50,000.00     | \$ 50,000.00     | \$ 44,403.72     | \$ 43,722.29     |
| 6425      | Sentinel Bird                                 | \$ 3,000.00      | \$ 3,000.00      | \$ 1,841.82      | \$ 2,264.07      |
| 6426      | Wild Bird                                     | \$ -             | \$ -             | \$ 17.50         | \$ -             |
| 6427      | Pesticide Testing                             | \$ 15,000.00     | \$ 15,000.00     | \$ 13,388.05     | \$ 11,429.54     |
| 6428      | Services - Small Equipment                    | \$ 1,800.00      | \$ 1,800.00      | \$ 228.06        | \$ 579.61        |
| 6429      | MB-Lyme Disease                               | \$ 4,400.00      | \$ 4,400.00      | \$ 4,307.08      | \$ 3,889.89      |
| 6431      | MB-Malaria                                    | \$ 1,800.00      | \$ 1,800.00      | \$ -             | \$ 1,554.31      |
| 6432      | MB-Chicken                                    | \$ 1,600.00      | \$ 1,600.00      | \$ 1,652.74      | \$ 1,124.36      |
| 6433      | MB-PCR  | \$ 55,000.00     | \$ 50,000.00     | \$ 71,816.19     | \$ 52,570.66     |
| 6434      | Microbiology - General                        | \$ 5,000.00      | \$ 4,000.00      | \$ 3,855.54      | \$ 2,080.78      |
| 6450      | GAS & PETROLEUM                               | \$ 172,000.00    | \$ 143,500.00    | \$ 119,725.51    | \$ 111,428.30    |
| 7000      | CAPITAL ACCOUNTS                              | \$ 553,049.00    | \$ 414,000.00    | \$ 189,365.50    | \$ 1,494,697.28  |
| 7011/1510 | Capital Outlay/Construction In Progress       | \$ 116,049.00    | \$ 204,000.00    | \$ 139,365.50    | \$ 1,494,697.28  |
| 7030      | Research Fund                                 | \$ 50,000.00     | \$ 50,000.00     | \$ 50,000.00     | \$ -             |
| 7035      | Building Improvement                          | \$ 387,000.00    | \$ 160,000.00    | \$ -             | \$ -             |
|           | TOTALS  |                  |                  |                  |                  |
|           | Salaries/Benefits                             | \$ 8,429,343.94  | \$ 8,040,923.70  | \$ 7,353,906.42  | \$ 7,578,639.36  |
|           | Operational                                   | \$ 6,175,171.00  | \$ 5,433,364.00  | \$ 4,568,614.89  | \$ 4,897,474.37  |
|           | Capital Accounts                              | \$ 553,049.00    | \$ 414,000.00    | \$ 189,365.50    | \$ 1,488,361.63  |
|           | Total Budget                                  | \$ 15,157,563.94 | \$ 13,888,287.70 | \$ 12,111,886.81 | \$ 13,964,475.36 |
|           | PROJECTED REVENUES                            | \$ 15,040,232.71 | \$ 14,071,933.00 |                  |                  |
|           | ACTUAL REVENUES                               |                  |                  | \$ 14,307,842.69 | \$ 13,272,997.85 |
|           | TOTAL BUDGET                                  | \$ 15,157,563.94 | \$ 13,888,287.70 | \$ 12,111,886.81 | \$ 13,964,475.36 |
|           | PROJECTED REVENUES<br>OVER PROJECTED EXPENSES | \$ (117,331.23)  | \$ 183,645.30    |                  |                  |
|           | ACTUAL REVENUES<br>OVER ACTUAL EXPENSES       |                  |                  | \$ 2,195,955.88  | \$ (691,477.51)  |



# **Sacramento-Yolo Mosquito and Vector Control District**

## **May 21, 2019 Board Meeting**

### **6. Board Review and Consideration of Supporting the AMCA Research Foundation in the Amount of \$50,000**

#### **Staff Report:**

The District has a strong history of supporting the work done by the Mosquito Research Foundation to further the study of vectors and vector borne diseases. The District's annual budget has \$50,000 allocated for research. I have included a request by the AMCA president, Jason Kinley, requesting funds to support the program.

#### **Recommendation:**

**Authorize the Donation to the AMCA Research Foundation in the Amount of \$50,000**



May 9, 2019

Dear Valued AMCA Member,

The American Mosquito Control Association Research Fund (AMCARF) promotes research that will lead to new tools and strategies for mosquito surveillance and control, ultimately protecting the public from mosquito-borne disease and discomfort from mosquito bites.

In 2019 the AMCA Research Fund awarded the following proposals:

Brian Byrd, PhD., *"Rapid Identification and characterization techniques for mosquitoes of public health importance"*, Western Carolina University

Nathan Burkett- Cadena, PhD., *"Automated Real-time Collection and High-Fidelity Identification of Vectors"*, University of Florida

Mosquito and vector control districts and the mosquito control industry have a key role in funding this important program. To maintain the unique opportunities for groundbreaking research conducted by exceptional scientists and mosquito control professionals at districts and universities across the US and abroad, and for nurturing early-career researchers in our community, the AMCA Research Fund depends on the generosity and support of your organization.

The AMCA Research Fund is currently accepting contributions, which will be earmarked for future AMCARF grant activities. If you or your organization would like to make a contribution, donations can be made online at <http://www.mosquito.org/researchfund> or by check payable to:

**AMCA Research Fund  
ATTN: Heather Gosciniak  
1120 Rt. 73, Suite 200  
Mt. Laurel, NJ 08054**

AMCA thanks the following contributors who have donated to the AMCA Research Fund since February 2018: ADAPCO, Animas Mosquito Control District, Anonymous Contribution, Canyon County Mosquito Abatement District, Contra Costa Mosquito and Vector Control District, Michigan Mosquito Control Association, Sacramento-Yolo Mosquito and Vector Control District, Schools First Federal Credit Union, Valent BioSciences

Thank you in advance for your continued support of research activities in support of our industry, our districts, and our community. We look forward to the continued impact of the AMCA Research Fund in the future.

Sincerely,

Jason Kinley  
AMCA President

**American Mosquito Control Association  
1120 Route 73, Suite 200, Mount Laurel, NJ 08054  
Phone: 856-439-9222 Ñ Fax: 856-439-0525 Ñ E-mail: [amca@mosquito.org](mailto:amca@mosquito.org) Ñ [www.mosquito.org](http://www.mosquito.org)**

# **Sacramento-Yolo Mosquito and Vector Control District**

## **May 21, 2019 Board Meeting**

7. **Closed Session- Provide Instruction to Designated Labor Representatives (Gov. Code s. 54957.6-Labor Negotiations)**  
**Agency Designated Representatives : [Gary Goodman, Janna McLeod, Samer Elkashef, Chris Voight]**  
**Employee Organization: [Operating Engineers Local Union #3]**

