

SACRAMENTO-YOLO
MOSQUITO & VECTOR
CONTROL DISTRICT

DECEMBER 15, 2020

BOARD OF TRUSTEES
REGULAR MEETING

BOARD PACKET

10:00 A.M.

8631 Bond Road
Elk Grove, CA 95624

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

8631 Bond Road
Elk Grove, CA 95624

**AGENDA
December 15, 2020
10:00 AM**

In compliance with the Americans with Disability Act, if you are a disabled person and you need a disability-related modification or accommodation to participate in this meeting, please contact the District office at (916) 685-1022 or (916) 685-5464 (fax). Requests must be made as early as possible, and at least one-full business day before the start of the meeting. Documents and materials relating to an open session agenda item that are provided to the SYMVCD Board less than 72 hours prior to a regular meeting will be available for public inspection and copying at 8631 Bond Road, Elk Grove, Ca 95624. The documents will also be available on the agency's website at www.fightthebite.net.

CALL TO ORDER:

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

1. Items for Approval by General Consent:

- a. Minutes of the November 17, 2020 Board of Trustees Meeting**
- b. Expenditures for November 2020**
- c. Deposit VCJPA Retrospective Adjustment of \$63,341 into District Member Contingency Fund**
- d. Board Review and Consideration of Legal Services Agreement Effective January 1, 2021**

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 District Departments**
 - **Lab/Surveillance**
 - **Microbiologist**
 - **Vector Ecologist**
 - **Environmental Biologist**
 - **Ecological Management**
 - **Biological Control**
 - **Larval and Adult Control**

- **Field Supervisors**
 - **Public Outreach**
 - **Shop Supervisor**
 - **Administration**

4. Board/Staff General Discussion

5. Adjournment

Sacramento-Yolo Mosquito and Vector Control District

December 15, 2020 Board Meeting

1. Items for Approval by General Consent:

- a. Minutes of the November 17, 2020 Board of Trustees Meeting;
- b. Expenditures for November 2020;
- c. Deposit VCJPA Retrospective Adjustment of \$63,341;
Board Review and Consideration of Legal Services Agreement
- d. Effective January 1, 2021.

Recommendation:

Approve the Items by General Consent

**MINUTES OF THE NOVEMBER 17, 2020
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:

Jayna Karpinski-Costa	President	Citrus Heights
Craig Burnett	Vice President	Folsom
Gar House	Secretary	Winters
Raul DeAnda		West Sacramento
Sean Denny		Woodland
Bruce Eldridge		Yolo County
Lyndon Hawkins		Elk Grove
Raymond LaTorre		Sacramento
Susan Maggy		Sacramento County
Robert McGarvey		Rancho Cordova
Marcia Mooney		Galt
Christopher Barker		Davis
Vacant		Isleton

TRUSTEES ABSENT:

None

LEGAL COUNSEL:

Jennifer Buckman

STAFF PRESENT:

Gary Goodman	Manager
Samer Elkashef	Assistant Manager
Janna McLeod	Administrative Manager
Marty Scholl	Ecological Management Supervisor
Luz Robles	Public Information Officer

CALL TO ORDER

The meeting was called to order at 10:00 a.m. by President Jayna Karpinski-Costa.

Roll Call

This meeting was held and attended by Video Teleconference. All Trustees were present creating a quorum. The Isleton position is vacant.

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

- a. Minutes of the October 20, 2020 Board of Trustees Meeting;
- b. Expenditures for October 2020;
- c. 2021 District Annual Operating Plan Pursuant to Section 8 of the MOU between the USFWS and SYMVCD;
- d. District Investment Report for Period Ending September 30, 2020.

2. OPPORTUNITY FOR PUBLIC COMMENT

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

None

3. BOARD REVIEW AND DISCUSSION OF THE 2019-2020 DISTRICT AUDIT

Erica Pastor, partner with Mann, Urrutia, Nelson, CPAs and Associates, LLP, presented the audit report and was available to answer questions. Ms. Pastor indicated the District received an unmodified opinion, meaning they had no significant findings and no compliance issues as part of the audit. On a motion by Trustee Burnett seconded by Trustee LaTorre, the Board voted to accept the 2019-2020 Audit. The vote was taken by roll call and the motion passed by the following vote: Ayes: 11, Noes: 0, Absent: 1 Trustee Hawkins was present; however he experienced technical difficulties and was not able to vote by roll call.

4. REPORTS TO THE BOARD

a. Manager's Report:

The District's West Nile testing season is complete. We will begin testing again in late spring. We are continuing to monitor the invasive mosquito issue in Winters, Arden-Arcade, and the other new detection areas found in 2020. The colder weather should make surveillance efforts more difficult in finding these mosquitoes. Staff will be working on winter projects including maintenance of equipment, the facility, and completing our annual training. The MVCAC Quarterly Meeting was held online with the committee meetings held in October and the Board meeting on November 4th. We have included a brief summary of the discussion points from each committee. The MVCAC Planning Session will be held online during the first week of December.

b. 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 provided a written report.

Ecological Management: Ecological Management Supervisor, Marty Scholl discussed department activities including Storm Water and Drainages, Wetland, Agricultural and UAS (Unmanned Aerial Systems) programs. Marty's report included photos of Deadman's Gulch in Herald where a brush

removal project was prompted by service requests revealing low areas within the gulch that were holding water and were not accessible for inspection or treatment due to the brush. Service requests also prompted staff to work with the Department of Water Resources out at Sherman Island. A “permanent” wetlands area located with the lower portion of the Island was allowed to dry out and then reflooded causing uncharacteristic breeding for this time of year. Treatments were made by ULV and aerial applications. Winter projects including drainage ditches are starting as the mosquito season winds down. With the recent passing of Dr. Bill Walton, Marty along with other MVCAC and AMCA members will be assisting with the completion of Dr. Walton’s current research papers and publications on his behalf.

Biological Control: Fisheries Supervisor, Tony Hedley provided a written report.

Larval and Adult Control: Program Coordinator, Steve Ramos provided a written report.

Public Outreach: Public Information Officer, Luz Robles reported on department activities including, Invasive Aedes detections, Nextdoor and Social Media, Educational videos, and Repellent and Materials Distribution. Aedes aegypti was detected in the Arden-Arcade area and staff reached out to local elected officials to get the word out to resident in this area. Parks departments in Arden-Park, Arden-Manor, and Mission Oaks were contacted and offered mosquito repellent wipes. Detections have also occurred in Isleton and South Sacramento. A Press Release was issued to provide an update on all the detections with media coverage obtained from the Sacramento Bee, the Winters Express, and CBS-13. Social Media posts continue to be directed towards educating the residents in these areas and encouraging them to sign up for spray notifications. An Educational video has been put together with assistance from Field Technicians which will demonstrate a Service Request and Inspection as well as preventative measures residents can take around their homes. Repellent has been distributed to the City of Davis and the Chamber of Commerce in Isleton.

5. BOARD REVIEW AND CONSIDERATION OF NEW QUANTITATIVE REAL TIME POLYMERASE CHAIN REACTION (QRTPCR) MACHINE

Manager Goodman presented the item and was available for questions. The Board asked if the District planned to use or surplus the current machine. Manager Goodman responded that while the machine is older and slower than the proposed machine, it still has life in it. The current machine will continue to be used to help the District test more mosquito sample plates for the presence of mosquito-borne viruses when needed. On a motion by Trustee Burnett seconded by Trustee Maggy, the Board voted to authorize the purchase of the QuantStudio5 from Life Technologies not to exceed \$35,000. The vote was taken by roll call and the motion passed by the following vote: Ayes: 11, Noes: 0, Absent: 1, Trustee Hawkins was present; however he experienced technical difficulties and was not able to vote by roll call.

6. BOARD/STAFF REPORTS AND REQUESTS

The upcoming MVCAC meetings will be held virtually instead of in person due to the Coronavirus pandemic.

7. ADJOURNMENT

The meeting adjourned at 10:58 am

* * * * *

I certify that the above minutes substantially reflect the general business and actions taken by the Board of Trustees at the November 17, 2020 meeting.

Gary Goodman, Manager

Approved as written and/or corrected by the Board of Trustees at the December 15, 2020 meeting.

Gar House, Board Secretary

November 2020 Check Register
Activity From: 11/1/2020 to 11/30/2020
Sacramento Yolo MVCD (SYC)

Check Number	Check Date	Vendor Number	Name	Check
<u>Bank Code:</u> U US Bank				
054326	11/5/2020	0000504	US Bank	13,982.63
054327	11/5/2020	0000006	Adapco Inc	3,446.12
054328	11/5/2020	0000014	Alhambra & Sierra Springs	64.16
054329	11/5/2020	0000018	ANDKO Building Maintenance Inc.	4,804.94
054330	11/5/2020	0000034	AutoZone Inc	558.91
054331	11/5/2020	0001011	Buckmaster Office Solutions	114.08
054332	11/5/2020	0000082	CA Special Districts Association	7,805.00
054333	11/5/2020	0001019	Cintas Corporation	2,093.79
054334	11/5/2020	0000117	City of Woodland	480.22
054335	11/5/2020	0000126	Complete Welders Supply Inc	2,681.59
054336	11/5/2020	0000128	Consolidated Communications	2,374.92
054337	11/5/2020	0000186	Elk Grove Water District	642.34
054338	11/5/2020	0001054	Employment Developement Dept	1,434.50
054339	11/5/2020	0000199	Farm Air Flying Service	26,796.25
054340	11/5/2020	0000200	Fastenal Company	262.90
054341	11/5/2020	0000202	Ferrellgas	21.84
054342	11/5/2020	0001233	Grow West	12.23
054343	11/5/2020	0000467	Home Depot Pro Institutional	882.02
054344	11/5/2020	0000240	Hunt & Sons Inc	2,146.01
054345	11/5/2020	0000277	Kimball Midwest	164.71
054346	11/5/2020	0002343	Leading Edge Aerial Technologies Inc.	36,000.00
054347	11/5/2020	0000293	Life Technologies Corporation	5,342.69
054348	11/5/2020	0000497	Magnegas Welding Supply - West	84.75
054349	11/5/2020	0000306	Maita Chevrolet	476.10
054350	11/5/2020	0000308	Mann Urrutia Nelson CPAs & Assoc LLP	3,500.00
054351	11/5/2020	0000356	OReilly Automotive Stores Inc	269.89
054352	11/5/2020	0000367	PG & E	155.93
054353	11/5/2020	0002350	Praxair Welding Gas and Supply	38.70
054354	11/5/2020	0001497	Pure Water Partners	1,438.47
054355	11/5/2020	0000388	Republic Services #922	88.40
054356	11/5/2020	0001012	Riebes Auto Parts	328.62
054357	11/5/2020	0000451	SMUD	4,135.83
054358	11/5/2020	0000462	Sterling May Co	121.46
054359	11/5/2020	0001234	T-Mobile	687.99
054360	11/5/2020	0000501	United Textile Inc	317.87
054361	11/5/2020	0000516	Valley Truck & Tractor Co	2,374.99
054362	11/5/2020	0000518	Vector Disease Control International	66,479.60
054363	11/5/2020	0000522	Verizon Wireless	3,240.78
054364	11/10/2020	0000267	Kaiser Foundation Health Plan	3,844.75
054365	11/10/2020	0000267	Kaiser Foundation Health Plan	19,298.86
054366	11/10/2020	0000267	Kaiser Foundation Health Plan	24,606.48
054367	11/10/2020	0000357	P & A Administrative Services Inc	117.00
054368	11/10/2020	0000371	Placer MVCD	15,035.40
054369	11/10/2020	0000373	Preferred Benefit Ins Administrators	8,452.30
054370	11/10/2020	0000957	Sutter Health Plus	6,450.78
054371	11/10/2020	0000531	Western Health Advantage	5,184.47
054372	11/10/2020	0000531	Western Health Advantage	3,053.82
054373	11/30/2020	0000043	Benefit Coordinators Corporation	3,264.43
054374	11/30/2020	0000084	CA State Disbursement Unit	350.00

054375	11/30/2020	0000339	Nationwide Retirement Solutions	1,550.00
054376	11/30/2020	0000339	Nationwide Retirement Solutions	4,150.00
054377	11/30/2020	0001035	Operating Engineers Local Union No. 3	1,300.00
054378	11/23/2020	0000038	Bartkiewicz Kronick & Shanahan	7,095.00
054379	11/23/2020	0001011	Buckmaster Office Solutions	347.73
054380	11/23/2020	0000126	Complete Welders Supply Inc	686.40
054381	11/23/2020	0000958	GreatAmerica Financial Services	372.82
054382	11/23/2020	0000240	Hunt & Sons Inc	5,887.20
054383	11/23/2020	0000277	Kimball Midwest	24.61
054384	11/23/2020	0000293	Life Technologies Corporation	519.01
054385	11/23/2020	0000306	Maita Chevrolet	575.89
054386	11/23/2020	0000620	Overhead Door Company of Sacramento	1,420.00
054387	11/23/2020	0000367	PG & E	833.70
054388	11/23/2020	0002350	Praxair Welding Gas and Supply	693.22
054389	11/23/2020	0001270	Rubicon Global, LLC	200.26
054390	11/23/2020	0000461	Stericycle Inc	161.42
054391	11/23/2020	0000505	US Bank Equipment Finance	102.36
054392	11/23/2020	0000526	VWR International Inc	818.90
054393	11/23/2020	0000529	Waste Management	164.96
054394	11/24/2020	0001477	Auto Start of Elk Grove	800.00
W00168	11/30/2020	0000086	CalPERS 457 Plan	20,645.49
W00169	11/30/2020	0000087	CalPERS Financial Reporting & Accounting	82,044.27
W00170	11/30/2020	0000176	EDD	15,543.60
W00171	11/30/2020	0000561	United States Treasury	56,794.13
Bank U Total:				<u>488,240.49</u>
Report Total:				<u><u>488,240.49</u></u>

I hereby authorize the use of my signature plate on
the above-listed warrants, 054326-054394, and EFTs (#W00167 unused) W00168-W00171

 Signature

Jayna Karpinski-Costa, President of the Board

 Date

S.Y.M.V.C.D
FY 2020-2021 Budget Update
November 2020

Account #	Account Description	5 Months Ended November 30, 2020	FY 20-21 Annual Budget	Unused
4000	REVENUE	\$ -	\$ -	\$ -
5000	SALARIES/BENEFITS/WC	\$ 4,299,263.46	\$ 8,793,710.68	\$ 4,494,447.22
5200	OPERATIONAL	\$ 3,407,743.57	\$ 6,478,412.05	\$ 3,070,668.48
5210	LIABILITY INSURANCE	\$ 161,762.05	\$ 171,762.05	\$ 10,000.00
5250	AUDITING/FISCAL	\$ 14,500.00	\$ 17,750.00	\$ 3,250.00
5270	COMMUNICATIONS	\$ 25,271.06	\$ 79,500.00	\$ 54,228.94
5310	PUBLIC INFORMATION	\$ 166,150.77	\$ 502,500.00	\$ 336,349.23
5340	STRUCTURE & GROUNDS	\$ 29,857.71	\$ 65,000.00	\$ 35,142.29
5370	MEMBER/TRAINING	\$ 36,689.82	\$ 113,000.00	\$ 76,310.18
5390	DISTRICT OFFICE EXPENSES	\$ 4,300.47	\$ 17,500.00	\$ 13,199.53
5430	PROFESSIONAL SERVICES	\$ 59,783.45	\$ 203,250.00	\$ 143,466.55
5440	MATERIALS & SUPPLIES	\$ 5,902.95	\$ 13,000.00	\$ 7,097.05
5450	RENTS & LEASES	\$ 3,803.99	\$ 11,550.00	\$ 7,746.01
5470	SAFETY PROGRAM	\$ 410.00	\$ 5,000.00	\$ 4,590.00
5480	UTILITIES	\$ 35,691.38	\$ 110,000.00	\$ 74,308.62
6120	AIRCRAFT SERVICES	\$ 463,972.32	\$ 955,000.00	\$ 491,027.68
6140	ECOLOGICAL MANAGEMENT	\$ 811.89	\$ 18,600.00	\$ 17,788.11
6160	MICROBIAL	\$ 796,426.91	\$ 1,550,000.00	\$ 753,573.09
6170	BIORATIONALS	\$ 830,480.51	\$ 1,000,000.00	\$ 169,519.49
6180	INSECTICIDES	\$ 527,295.87	\$ 1,100,000.00	\$ 572,704.13
6220	FISHERIES	\$ 5,407.93	\$ 27,000.00	\$ 21,592.07
6280	GEOGRAPHIC INFO SYSTEMS	\$ 2,500.00	\$ 9,100.00	\$ 6,600.00
6320	INFORMATION TECHNOLOGY	\$ 21,805.82	\$ 68,500.00	\$ 46,694.18
6350	CONTROL OPERATIONS	\$ 17,399.14	\$ 40,200.00	\$ 22,800.86
6370	SHOP	\$ 46,673.58	\$ 98,000.00	\$ 51,326.42
6420	LAB SERVICES	\$ 83,307.66	\$ 148,200.00	\$ 64,892.34
6450	GAS & PETROLEUM	\$ 67,538.29	\$ 154,000.00	\$ 86,461.71
7000	CAPITAL ACCOUNTS	\$ 13,916.03	\$ 615,651.27	\$ 601,735.24
7011/1510	Capital Outlay/Construction In Progress	\$ -	\$ 233,000.00	\$ 233,000.00
7030	Contingency	\$ -	\$ 72,651.27	\$ 72,651.27
7030	Research Fund	\$ -	\$ 25,000.00	\$ 25,000.00
7035	Building Improvement	\$ 13,916.03	\$ 285,000.00	\$ 271,083.97
	TOTALS			
	Salaries/Benefits	\$ 4,299,263.46	\$ 8,793,710.68	\$ 4,494,447.22
	Operational	\$ 3,407,743.57	\$ 6,478,412.05	\$ 3,070,668.48
	Capital Accounts	\$ 13,916.03	\$ 615,651.27	\$ 601,735.24
	Total Budget	\$ 7,720,923.06	\$ 15,887,774.00	\$ 8,166,850.94

SYC Balance Sheet
As of 11/30/2020

Sacramento Yolo MVCD (SYC)

Assets

Current Assets

Cash in Bank-FSA	22,488.41	
Cash with LAIF	4,157,819.12	
Petty Cash	600.00	
US Bank	773,707.88	
Accounts Receivable	7,513.72	
Interest Receivable	30,439.00	
Assigned - Cash With VCJPA	1,607,140.00	
Inventory	720,666.68	
Total Current Assets:		7,320,374.81

Fixed Assets

LAND, BLDG., IMPROVEMENT	1,175,092.88	
Construction in Progress	1,897.20	
EQUIPMENT	4,436,427.83	
BOND ROAD	5,061,395.00	
WOODLAND FACILITY	708,574.00	
ACCUMULATED DEPRECIATION	(7,131,794.54)	
Total Fixed Assets:		4,251,592.37

Other Assets

Deferred Outflows of Resources	5,285,357.00	
Deferred Outflows of Resources-GASB 75	950,064.00	
Total Other Assets:		6,235,421.00
Total Assets:		17,807,388.18

Liabilities

Current Liabilities

Accounts Payable	6,787.15	
Payroll Taxes Payable	(0.30)	
Voluntary TL & AD&D	(643.93)	
Voluntary STD	(459.92)	
FSA Deductions	127,549.39	
P.E.R.S. Deductions	(1.04)	
Safety Program	(1,530.00)	
Accumulated Vacation	386,052.62	
Total Current Liabilities:		517,753.97

Long-Term Liabilities

Net Pension Liability	10,328,549.00	
Net OPEB Liability	1,790,183.00	
Deferred Inflow of Resources	3,197,032.00	
Deferred Inflow of Resources-GASB 75	90,090.00	
Total Long-Term Liabilities:		15,405,854.00
Total Liabilities:		15,923,607.97

Equity

INVESTMENT IN FIX ASSETS	4,251,591.96	
RESERVED CASH (INS.)	1,607,140.00	
Committed-Capital Outlay	700,000.00	
Unassigned - Dry Financing	6,000,000.00	
GENERAL FUND	(4,980,393.77)	
Retained Earnings-Current Year	(7,694,557.98)	
Committed - Vector/Disease Response	2,000,000.00	
Total Equity:		1,883,780.21

SYC Balance Sheet
As of 11/30/2020

Sacramento Yolo MVCD (SYC)

Total Liabilities & Equity:

17,807,388.18

VCJPA 2020 REFUND PROCESSING AND DISTRIBUTION INSTRUCTIONS

POOLED LIABILITY AND POOLED WORKERS' COMPENSATION PROGRAM

RETROSPECTIVE ADJUSTMENTS

DISTRICT: SACRAMENTO-YOLO

BACKGROUND:

At the October 27th, 2020 BOARD MEETING, THE 2020 ANNUAL REPORT FOR BOTH THE POOLED WORKERS' COMPENSATION AND POOLED LIABILITY PROGRAMS WAS PRESENTED. THE BOARD APPROVED TOTAL REFUNDS TO ACTIVE MEMBERS OF \$165,831 IN THE POOLED LIABILITY PROGRAM AND \$663,273 IN THE POOLED WORKERS' COMPENSATION PROGRAM. **YOUR DISTRICT'S PORTION OF THE TOTAL REFUND IS PRESENTED IN TABLE 1, BELOW.**

YOU HAVE THE OPTION TO APPLY YOUR DISTRICT'S PORTION OF THE REFUND TO THE MEMBER CONTINGENCY FUND, AND/OR HAVE THE AMOUNTS REFUNDED TO THE DISTRICT VIA CHECK. PAYMENT VIA ACH IS AVAILABLE TO THOSE DISTRICTS THAT HAVE PREVIOUSLY ESTABLISHED THEIR ACCOUNT INFORMATION WITH VCJPA.

TABLE 2 PRESENTS THE DISTRICT'S MEMBER CONTINGENCY FUND BALANCE AS OF September 30, 2020 WITH THE AMOUNT ABOVE OR (BELOW) THE CALCULATED PRUDENT BALANCE. MEMBERS MAY CONTRIBUTE UP TO THE PRUDENT BALANCE WITHOUT EXPLANATION PER THE AGENCY'S BYLAWS. CONTRIBUTIONS TO THE MEMBER CONTINGENCY FUND IN EXCESS OF THE PRUDENT BALANCE ARE ALLOWED, BUT THE DISTRICT'S REASON FOR EXCEEDING THE PRUDENT FUND BALANCE MUST BE DOCUMENTED IN WRITING AND SUBMITTED TO VCJPA FOR ITS FILES.

INSTRUCTIONS:

COMPLETE THE DISTRIBUTION INSTRUCTIONS USING TABLE 3 TO INFORM THE VCJPA HOW TO PROCESS YOUR DISTRICT'S REFUND. YOU MAY ELECT TO: 1) RECEIVE A PAYMENT FOR THE ENTIRE REFUND, 2) APPLY THE TOTAL REFUND TO THE MEMBER CONTINGENCY FUND, 3) APPLY A PORTION OF THE REFUND TO THE MEMBER CONTINGENCY FUND AND RECEIVE A PAYMENT FOR THE BALANCE FROM VCJPA.

PLEASE RETURN THE COMPLETED FORM BY DECEMBER 11, 2020.

TABLE 1 – CURRENT REFUND:

Below is the amount of your district's refund for the Pooled Liability and Pooled Workers' Compensation Programs as approved by the Board of Directors on October 27th, 2020.

Pooled Liability Program	\$ 18,051
Pooled Workers' Comp. Program	\$ 45,290

TABLE 2 – MEMBER CONTINGENCY FUNDS:

Below is the amount of your district's member contingency fund prudent balance and actual balance as of September 30, 2020 as well as the amount over or (under) the prudent balance.

PRUDENT BALANCE	MEMBER BALANCE	AMOUNT OVER (UNDER) PRUDENT BALANCE
\$ 921,318	\$ 1,611,908	\$ 690,590

VCJPA 2020 REFUND DISTRIBUTION INSTRUCTIONS
SACRAMENTO-YOLO
DUE DATE: DECEMBER 11, 2020

TABLE 3 – DISTRIBUTION OF REFUNDS:

For the refund(s) listed in Table 1 above, please distribute as follows:

	LIABILITY REFUND	WORKERS' COMP. REFUND	TOTAL REFUND
TOTAL PROGRAM REFUNDS AVAILABLE TO DISTRIBUTE	\$ 18,051	\$ 45,290	\$ 63,341

DISTRIBUTE OUR
LIABILITY REFUND AS
FOLLOWS



DISTRIBUTE OUR
WORKERS' COMP.
REFUND AS
FOLLOWS



OPTIONS FOR DISTRIBUTION	ENTER AMOUNT	ENTER AMOUNT	TOTAL
1) ISSUE A PAYMENT TO THE DISTRICT FOR THE AMOUNT ENTERED			
2) APPLY AMOUNT ENTERED TO THE DISTRICT'S MEMBER CONTINGENCY FUND			
3) TOTAL (MUST AGREE TO TOTAL PROGRAM REFUND(S) SHOWN ABOVE)			

**CANNOT EXCEED
\$ 18,051**

**CANNOT EXCEED
\$ 45,290**

**CANNOT EXCEED
\$ 63,341**

Print Name of Person Completing Form: _____

Date: _____

Phone Number: _____ Email Address: _____

Email this form to: alana.theiss@sedgwick.com

Questions? Please call Alana Theiss at 916.244.1120

IF THIS FORM IS NOT RETURNED BY THE DUE DATE ABOVE, YOUR DISTRICT WILL RECEIVE THE REFUND IN THE FORM OF A CHECK.

NOTE: NO DEPOSITS WILL BE MADE TO THE MEMBER CONTINGENCY FUND WITHOUT A COMPLETED ELECTION FORM.
VCJPA LEGAL COUNSEL HAS ADVISED THAT AN ANNUAL ELECTION SHOULD BE MADE BY THE MEMBER DISTRICTS;
STANDING ORDERS TO DEPOSIT REFUNDS IN THE MEMBER CONTINGENCY FUND WILL NOT BE ACCEPTED.

BARTKIEWICZ, KRONICK & SHANAHAN

RICHARD P. SHANAHAN
RYAN S. BEZERRA
JOSHUA M. HOROWITZ
JENNIFER T. BUCKMAN
ANDREW J. RAMOS
CHRISTINE M. DUGGER
BRITTANY N. BRACE

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Retired
PAUL M. BARTKIEWICZ
STEPHEN A. KRONICK
ALAN B. LILLY

Of Counsel
HOLLY J. JACOBSON

December 8, 2020

VIA EMAIL

Mr. Gary W. Goodman, General Manager
Sacramento-Yolo Mosquito and
Vector Control District
8631 Bond Road
Elk Grove, CA 95624

Re: Legal Services Agreement and 2021 Rates

Dear Gary:

In order to account for increased costs and changes in the experience of our professional staff, Bartkiewicz, Kronick & Shanahan is adjusting its hourly rates for professional staff, effective January 1, 2021. The following are the rates for 2021:

Principal I	\$320/hour
Principal II	\$295/hour
Associate I	\$265/hour
Associate II	\$260/hour
Of Counsel	\$310/hour

We will continue to make our very best efforts to control costs so that we are able to provide the highest quality legal services to you at the most reasonable rates possible.

December 8, 2020
Gary W. Goodman
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Thank you for the continued opportunity to provide you with legal services; we sincerely appreciate the District's business. Please contact us if you have any questions concerning this matter.

Sincerely,

A handwritten signature in blue ink, reading "Jennifer T. Buckman". The signature is fluid and cursive, with a long horizontal flourish extending to the right.

JENNIFER T. BUCKMAN

Sacramento-Yolo Mosquito and Vector Control District

December 15, 2020 Board Meeting

3. Reports to the Board

- a. Manager's Report**
- b. Reports from District Departments**

a. Manager's Report

The year is at an end and staff is preparing for the upcoming 2021 season with planning, training, and maintenance of the equipment.

The District has been very active in responding to and changing protocols in response to COVID-19. The regulations and guidance seem to be changing on a regular basis and we are diligently working to respond in kind to keep ahead and make sure that staff is operating in a safe manner.

The MVCAC planning session was held on December 7th and 8th. The association has been adapting to the current climate with remote meetings instead of in person and working toward achieving the goals of the association, albeit in a different manner. The MVCAC changed the committee structure by limiting the number of official members on the various committees with the hopes that fewer members will lead to more specific direction and accomplishment of tasks. The ongoing goals of securing funding for CalSurv and working with the regulatory agencies are the top priorities.

District staff is continuing the work on the five year plan for future activities and direction of the District. Staff will provide an update to the Board in January on the items highlighted in the five year plan.

b. Reports from District Departments

- **Lab/Surveillance (Marcia Reed-written)**
 - **Microbiologist-Kara Kelley**
 - **Vector Ecologist-Debbie Dritz**
 - **Environmental Biologist-Sarah Wheeler**
- **Ecological Management (Marty Scholl-written)**
- **Biological Control (Tony Hedley-written)**
- **Larval and Adult Control (Steve Ramos-written)**
 - **Control Supervisors-Garth Ehrke, Demetri Dokos, Kevin Combo, Ryan Wagner**
- **Public Outreach (Luz Maria Robles-written)**
- **Shop-Tom Price**
- **Administration-Janna McLeod and Samer Elkashef**

LABORATORY

Monthly Report for the December 2020 Board Meeting

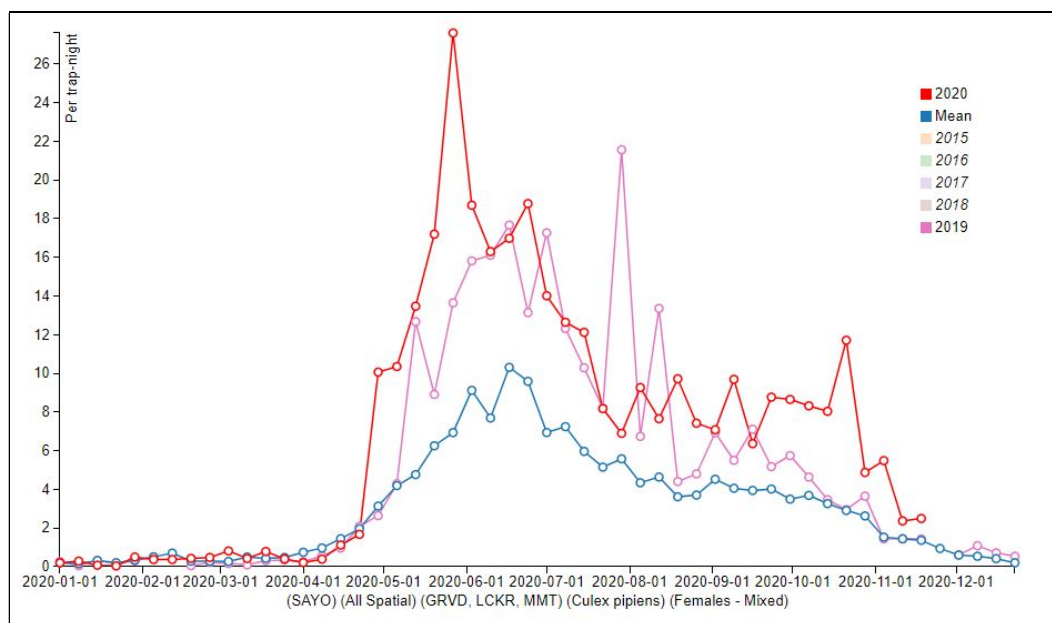
Insectary:

Colonies maintained: *Culex tarsalis* Kern National Wildlife (susceptible)
Culex quinquefasciatus Cq1 (susceptible)
Culex pipiens Woodland (resistant)
Culex tarsalis Vic Fazio (resistant)
Aedes sierrensis wild - Marin - Sonoma County (in egg form)

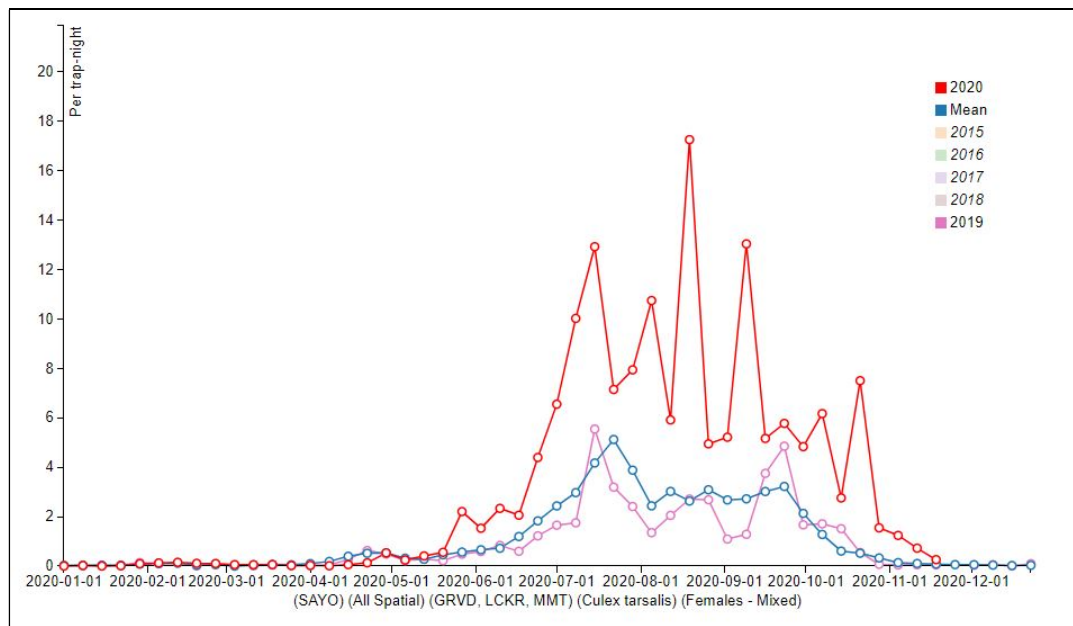
Surveillance:

Weekly collections –We are seeing the normal low abundance of both our *Culex pipiens* and *Culex tarsalis* populations during the winter months. We have been pleased with the performance of the District locker traps this season and look forward to many years of data collection utilizing this custom trap.

Culex pipiens in weekly abundance traps (LCKR, GT):



Culex tarsalis in weekly abundance traps (LCKR, GT)



Invasive *Aedes* spp. Surveillance –

Our last trap capture of adult *Aedes aegypti* in both the Winters and Arden areas was of one female in each area on November 23rd. The previous week two females were captured in Winters and none in the Arden area. We have currently placed 5 permanent BG Sentinel traps in both Winters and Arden and are modifying 5 more for each area to be placed as soon as possible. We will continue to maintain these trap sites over the winter to monitor these invasive populations.

Encephalitis virus surveillance (EVS) – Mosquitoes – The final totals for EVS trapping with CO₂ baited and Gravid traps are listed here: 6,967 mosquito pools (samples) tested with 192 positives found for West Nile virus, 115 positive pools were from Sacramento County and 77 were from Yolo County. The last positive detection was on October 6th. We will resume virus surveillance in the spring.

Encephalitis virus surveillance (EVS) – Sentinel Chickens – We concluded the season with two positive flocks for West Nile virus. One chicken from the Knight's Landing flock in Yolo County and all five chickens from the Gibson Ranch flock in Sacramento County tested positive for West Nile virus. Interestingly, these same two flocks were the only flocks with positive chickens last season as well. The chickens at the Dunnigan, Isleton and Rancho Murieta flocks tested negative throughout the season.

Encephalitis virus surveillance (EVS) – Dead Birds – The final total for this year in the dead bird program is 402 dead birds collected and tested. 120 were found to be positive, of these, 29 were from Yolo County and 91 were from Sacramento County. In comparison, in 2019, 389 dead birds were collected and 51 were found to be positive. We look forward to the dead bird hotline opening again in the spring.

Tick and Lyme disease surveillance – We have begun our tick surveillance program for this winter. There are 20 locations which will be monitored for the presence of *Ixodes pacificus* ticks. Pools (samples) of these ticks will be tested for *Borrelia burgdorferi* and *Borrelia miyamotoi*. We will be adding the capability to distinguish between these two species of *Borrelia* this year. One additional note is that the 2020 summer fires have forced us to slightly adjust some of our usual tick flagging locations in Yolo County.

BG Counter Traps – We are utilizing a few BG counter units with the BG Sentinel traps in our overwintering monitoring of the *Aedes aegypti* populations in the Winters and Arden areas.

Mosquito Resistance Testing – We will be reviewing past resistance data this winter to determine which mosquito populations we will be focused on testing next season. We will also be running assays this winter on our new Vic Fazio wild *Cx. tarsalis* colony.

Disease Response Surveillance – In the month of November, we were not notified of any imported mosquito-borne disease cases.

District Studies –

LVL (Low Volume Larvicide) studies – The District learned the utility of this application method and will utilize it next season. We will plan on running application evaluations again next year.

Adulticide Product Trials – We completed several trials this season and will be evaluating what trials we will plan on doing next season.

Sugar Bait Project – We have concluded the sugar bait program for the year and will be utilizing these again next spring for early virus surveillance. Results from our two years of experience with sugar baits will be presented at the AMCA annual meeting.

Sumilarv Evaluation – Results of these studies are being reviewed to determine sumilarvs use in swimming pools sources.

***Aedes aegypti* traps** – We have continued to primarily utilize the BG sentinel traps for *Aedes aegypti* surveillance. We will evaluate other trapping and surveillance methods when we see activity begin next season.

Collaborations –

Catch Basin Residue and Resistance study – There will be a presentation by the UCR researcher at the MVCAC annual meeting with results from this study.

Natular (spinosad) applied via LVL – This study's results are being summarized by Clarke scientists.

Additional Projects – We are working with two recipients of Pac-Vec Center of Excellence training grants. Dr. Tara Thiemann from UOP (the University of the Pacific in Stockton) is studying *Culex tarsalis* resistance. Dr. Monika Guila-Nuss from UNR (the University of Nevada at Reno) is working with ticks. We have begun collecting ticks samples to be sent to her lab.

California Arbovirus Surveillance Bulletin #32 Week 47: Friday, November 20, 2020

2019 & 2020 YTD West Nile Virus Comparisons		
	2019	2020
Total # Dead Bird Reports	5,460	5,552
# Positive Counties	33	39
# Human Cases	196	172
# Positive Dead Birds / # Tested	214 / 1,739	339 / 1,535
# Positive Mosquito Pools / # Tested	3,284 / 42,462	2,628 / 40,037
# Seroconversions / # Tested	139 / 9,127	142 / 6,325

YTD WNV Activity by Element and County, 2020					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda			7		
Alpine			1		
Amador		2			
Butte	4	1	4	28	23
Calaveras					2
Contra Costa	3		22	13	7
El Dorado	1				
Fresno	6		5	322	
Glenn	1	1		3	2
Imperial				3	
Kern	4			83	
Kings	1	1		87	
Lake				12	2
Los Angeles	60		102	437	38
Madera	6			77	
Marin			1		
Merced	12	1	2	42	14
Modoc		1			
Napa			1	2	
Nevada		1			
Orange	14		46	326	
Placer	2		2	58	
Riverside	5	2	2	64	
Sacramento	1	1	91	115	4
San Benito					1
San Bernardino	2	1		13	
San Diego	1			2	
San Joaquin		4	4	260	
San Mateo			1		
Santa Barbara				1	
Santa Clara			7	8	
Shasta				25	3
Solano	1	1	3	8	4
Stanislaus	37	3	4	351	
Sutter	1			20	26
Tehama	2				5
Tulare	5		5	189	9
Yolo	3		29	77	1
Yuba				2	1
Totals	172	20	339	2,628	142

ECOLOGICAL MANAGEMENT DEPARTMENT

Monthly Report for the December 2020 Board Meeting

Storm Water / Drainages Program

US Bureau of Reclamation(USBR), Delta Meadows: Staff performed a biological survey and marked potential Giant Garter snake and rodent nesting holes within the Bureau of Reclamation's portion of Delta Meadows in Locke, CA. This is a requirement of the Vegetation Maintenance License provided to the District. Staff will begin hand crew maintenance of the ditches as time allows.

Wild Wings Golf Course and CSA: Staff initiated discussions with Yolo County to help implement vegetation removal BMPs on some of the storm runoff detention ponds within the Wild Wings Golf course, located West of Woodland. While these are seasonal ponds, the vegetation growth during the spring season provides mosquito breeding habitat as the water slowly recedes during the summer.



Wetland Program

Fall Flooding: Invoices for all fall flooding costs under the tiered Fall Flooding Cost Share program have been sent to each wetland property owner or manager.

Putah Creek Weir: Staff had a conversation with Putah Creek Trout to discuss possible solutions to removing the weir within Putah Creek in the Yolo Bypass in an effort to encourage greater salmon migration. A springtime follow-up meeting was suggested to discuss wetland and water management BMPs as they relate to the timing of fall flooding.

Agriculture Program

Staff continue to utilize the District's diesel equipment in conjunction with hand crews to clear agricultural drainage corridors to provide technician access and greater product efficacy.

UAS Program

Two Ecological Management staff will be taking the FAA's Small Unmanned Aircraft Remote Pilot Re-Certification exam later this month. This Recurrent exam is required every two years to maintain an active Airman Certificate with a sUAS rating (ie.UAS Pilot License).

BIOLOGICAL CONTROL
Monthly Report for the December 2020 Board Meeting

In the month of November the Fisheries department finished all large fish stocking requests. With our main mosquito season ended, fisheries personnel shift their focus on maintenance and repairs. During the off season, all equipment will be examined and repaired or replaced as needed. All other necessary equipment such as pumps, electric fish feeders and ATV transport Gators will be serviced. In addition to maintenance, daily activities such as tank cleaning, water quality monitoring, setting out aerators and pumps were also performed to maintain the high quality of our fish population. With the lack of rainfall, fisheries staff has had to continue to run our deep well water system to keep water levels at optimal depths. The Fisheries department will continue with many projects including monitoring dissolved oxygen levels through winter months, crayfish trapping and analyzing this year's stocking rates in rice fields and wetlands to determine future ideal stocking rates.

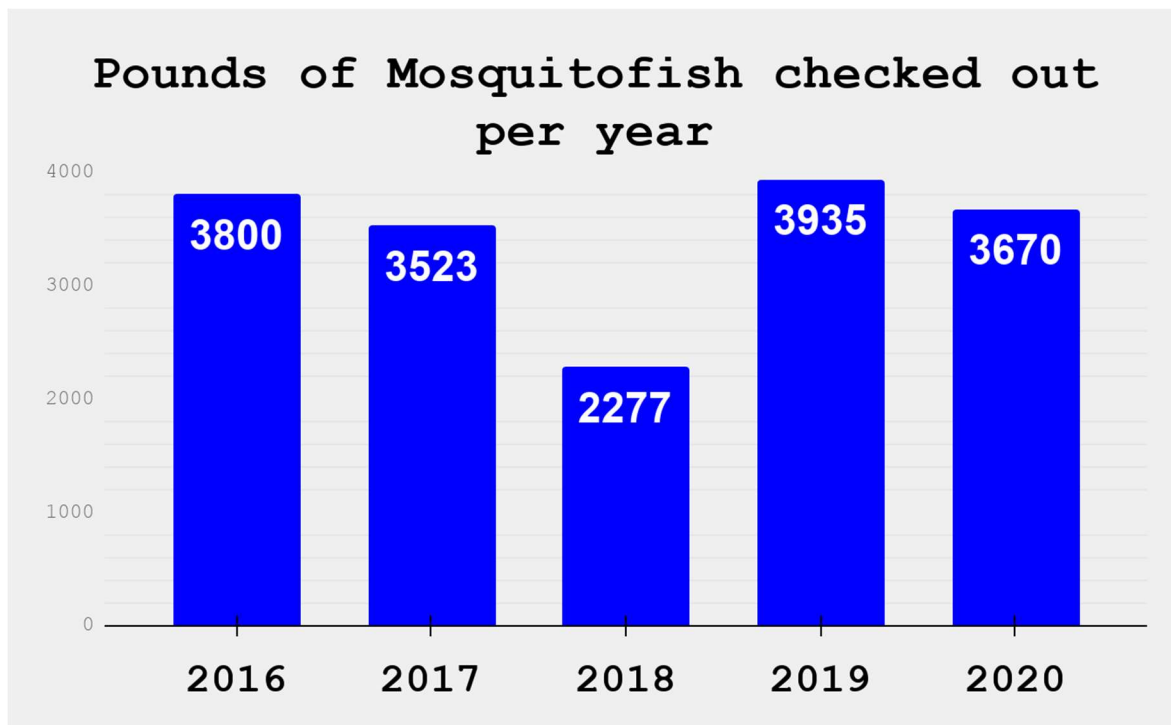
Log of Treatment Applied for November

<u>Material</u>	<u>AMT</u>	<u>Area Treated</u>	<u>Rate</u>	<u>Treatments</u>
Mosquitofish	32.35 lbs.	611.84 Acres	.05 lbs./ac	32

Fisheries Budget

<u>Total</u>	<u>Spent</u>	<u>Remaining</u>	<u>% Spent</u>
27,000.00	8,457.81	18,542.19	31%

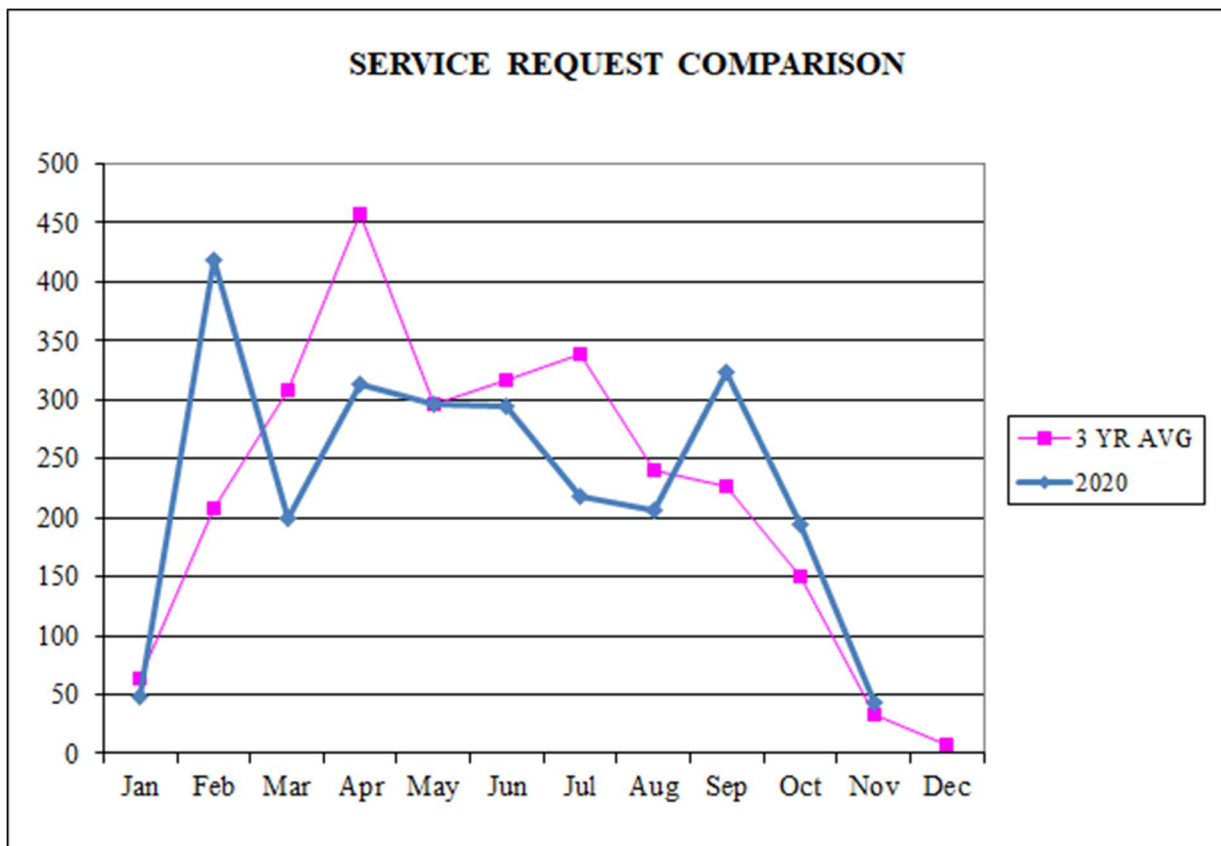
Five year running total of Mosquitofish checked out by District employees.



CONTROL OPERATIONS

Monthly Report for the December 2020 Board Meeting

November had no aerial flights for adult or larval mosquito control and there are no expected flights until the spring of 2021. The 2020 fall season has been typical in some regards and very new in others. In the usual fashion, service requests have slowed down. Field crews are beginning on and off-site projects such as brush clearing and facility maintenance. New to this year, crews are working in shifts on projects to maintain social distance while performing their duties both on and off site. Winterizing of ULV equipment is scheduled to begin in December and should be finished before the end of the month. All District trials have been completed for the year and preparation for the upcoming year's presentations are now underway.



Larvicide Applications thru November 30th				
	<u>2020</u>		<u>2019</u>	
<u>Locations/Roles</u>	<u>Treatments</u>	<u>Acres</u>	<u>Treatments</u>	<u>Acres</u>
Sacramento County	9,224	10,039	6,340	15,859
Sac County Aerial	29 Order, 432 Sources	21,994	25 Orders, 488 Sources	25,510
Sac County Drone Treatments	16 orders	643.49	18 Orders	1,414
Yolo County	2160	7,790	2,420	9,695
Yolo County Aerial	99 Order, 1200 Sources	118,220	90 Orders 1217 Source	146502
Yolo County Drone Treatments	15 Order	1107.1	27 Orders	2,249
CB Treated	168,190	--	185,002	--
CB Inspected -not treated	153,582	--	166,417	--

Aerial Adulticide Summary thru November 30th				
	<u>2020</u>		<u>2019</u>	
<u>County</u>	<u># Applications</u>	<u>Acres</u>	<u># Applications</u>	<u>Acres</u>
Sacramento Ag	16	114,772	14	94,941
Sacramento Urban	0	0	0	0
Yolo Ag	62	475,124	69	470,826
Yolo Urban	0	0	0	0
Totals		589,896		565,767

VDCI Summary through November 30th, 2020

compared to: 2019

Contract Acres (our portion) =	530,000	530,000
Acres used =	589,896	565,767
Acres remaining =	(-59,896)	(-35,767)
% Acres used =	111%	107%
% Acres remaining =	0%	0%

San Joaquin County MVCD has used 174,631 acres of their 190,000 acre contract commitment.
Placer MVCD has used 74,941 acres of their 100,000 acre commitment.
Turlock MAD has used 187,998 acres of their 180,000 acre commitment.

PUBLIC INFORMATION AND EDUCATION

Monthly Report for the December 2020 Board Meeting

Invasive Mosquitoes Tool Kit

As part of our participation in the MVCAC Public Relations Committee we have been working on an invasive mosquito toolkit that includes fact sheets, social media graphics and videos. Materials were developed by committee members and translated into Spanish by District staff. Once the toolkit is done, it will be disseminated as a resource to all districts and MVCAC member agencies.

Sterile Insect Technique Materials

Aside from the invasive mosquito information we are also working on a variety of materials specific to innovative methods to control invasive mosquitoes and specifically, Sterile Insect Technique (SIT). Since we will likely continue to detect invasive mosquitoes next season, there is a big possibility that we may use SIT tactics; specifically, the use of Wolbachia to control invasive mosquito populations. We are working on developing materials such as fact sheets, a brochure, FAQ's, speaking points and other resources to disseminate to local elected officials and the general public.

Advertising

While it is still very early in the planning stages for the 2021 advertising season, discussions with account executives and media representatives have begun to look at the various options for the advertising campaign next year and changes that will be implemented to the campaign.

Nextdoor and social media efforts

An end of the year post was disseminated via Nextdoor which included winter mosquito prevention tips for all residents. In addition, ongoing social media posts and content will continue with an emphasis on invasive mosquitoes and innovative methods to control them.

MVCAC/Public Relations Committee

An abstract was submitted to participate and give a presentation at the upcoming MVCAC Annual Conference as part of the Advocacy and Community Engagement Symposium. The title of the presentation is Public Outreach in the Era of Covid-19.

Kara Kelley-Laboratory – Microbiologist

During the beginning of the year, tick collection is conducted. There are 20 established tick collection sites which are visited once per month. This year, 16 samples have tested positive out of a total of 375 pools tested.

As the year progresses, the focus of the department and the District as a whole shifts to West Nile virus surveillance (WNV). To that end five flocks of chickens are maintained throughout the District. Samples are collected and tested every two weeks for WNV, St. Louis Encephalitis virus and Western Equine Encephalitis virus. In 2020 we detected five WNV positive chickens, four from Gibson Ranch and 1 chicken from Knights Landing. Testing dead birds collected from both counties is another part of our WNV surveillance program. This year the District tested 402 birds and WNV was detected in 120 of them. This was a positivity rate of 29.85% which was a jump from the 13.42% the year prior. The last component of our WNV surveillance program is testing collected mosquitoes, which begins in May. In 2020, we tested a total of 6967 samples with 192 samples testing positive for WNV. This is a positivity rate of 2.76% which was higher than 2019's rate at 2.03%.

In 2020, we selected random sites throughout the District to deploy sugar bait stations. The purpose was to determine if the sugar stations would be an effective way to monitor WNV activity. We detected 32 WNV positive sugar baits out of the 1340 that were deployed (2.39%). The findings of this work will be presented at the 2021 AMCA annual meeting.

The new PCR lab construction was completed in April and we tested our first mosquito samples in May. With the new PCR lab on site, we can process and test samples on the same day the mosquitoes are collected. For the 2021 season, we are excited about expanding our testing platform to include the Board approved and recently purchased QuantStudio 5 PCR instrument. The additional PCR instrument will provide faster turnaround time on test results and combining the new instrument with our existing system we can increase the quantity of samples that can be processed per day.

The Microbiologist will continue to serve on the MVCAC Laboratory Technology Committee for in 2021.

Debbie Dritz-Laboratory – Vector Ecologist

One of the most significant events of this past season was finding invasive *Aedes* in both counties in areas other than where they were detected last year. In addition to year-round monitoring in Citrus Heights, the Lab staff began setting BG sentinel traps in all areas of the counties. Three new seasonals had been hired to achieve the density of traps required for robust *Aedes* surveillance. We detected *Aedes* in Winters, the Arden area, Davis and south Sacramento. Our total number of trap nights in the 2020 season was 4,823. We had a total of 324 *Aedes aegypti* detections from August until our last trap date this year. This was concurrent with conducting our usual surveillance for WNV.

As the Lab will now be monitoring two different groups of mosquito species of concern next season (invasive *Aedes* and WNV vectors), we initiated steps to increase the efficiency of our WNV surveillance efforts. The first step was conversion of our permanent EVS run paperwork to Google sheets so these could be easily viewed in the field on mobile devices. We are currently converting the remainder of our approximately 1500 EVS sites to Google sheets for easy access to both permanent and any potential response sites in the field. In addition, we are collaborating

with Dan to create new run sheets with QR codes that the lab technicians will be able to scan with their phones. It will automatically link to Google Maps and generate turn by turn directions. We also converted all the CO₂ traps from D cell batteries to rechargeable batteries which reduced the operational costs of these units.

The District made new “Locker” traps and are work has determined that they are as efficient as the retired light traps they replaced. These traps result in cleaner collections which greatly reduces sorting time as well as the time it takes for mosquito abundance data to be available to all District staff.

Results of comparative adult bottle bioassays which investigated potential differences between use of chemical standards and formulated product for prediction of resistance to newly emerging adulticide products in our native mosquito populations was presented at MVCAC and published in the Proceedings this year.

Sarah Wheeler-Laboratory - Biologist

Despite the impact of COVID-19 the 2020 research schedule was busy. The research projects that the District worked on required the attention of one Lab technician and two seasonal employees in addition to the District Biologist. Working with the Catch Basin Department we evaluated larvicide resistance in *Culex pipiens* collected from Woodland for the active ingredients methoprene and spinosad. These results are currently being analyzed and will be presented at the 2021 AMCA meeting. Also working with the Catch Basin department, we collected water samples from curb-side catch basins, over the course of the summer. These samples are currently being tested for run-off pyrethroid pesticides by Nathan Sy, a graduate student at UC Riverside, who is studying the role of run-off pesticides in building insecticide resistance in urban-breeding *Culex pipiens*. We evaluated the efficacy of aerial ULV applications of Merus 3.0 and dibrom, and evaluated the impact of smoky conditions on ground and aerial applications. We found that smoky conditions resulted in an approximated EPA PM2.5 AQI of 120 did not reduce efficacy based on sentinel cages and impingers, however, higher levels of smoke that resulted in visibility of less than ¼ of a mile would result in grounding of aircraft. Additionally, we did a great deal of work calibrating our A-1 sprayers for consistent performance under different environmental conditions. These sprays are a key tool in our *Aedes aegypti* control program, so it is critical that they perform as expected. We learned a lot about our A1 sprayers in 2020, which is a focus of ongoing work, with the 2020 findings being presented at the MVCAC annual meeting.

Ryan Wagner-Catch Basin Control Operations

In 2020, the District’s Catch Basin Program made a number of changes and improvements as the challenging year unfolded. Catch Basin technicians adapted well to the needed safety modifications at the District and to the changes they encountered in the field interacting with the public they serve. This year, the crew inspected 322,000 catch basins in Sacramento and Yolo counties, surpassing the annual totals of fourteen out of sixteen previous seasons. Four technicians in particular contributed to this effort by biking nearly every day - one of which logged nearly 1,800 miles this season. This year also marked the first full season incorporating a completely digital and paperless system of mapping and data management, allowing for an efficient and more environmentally-forward means of operation. Catch Basin technicians also revisited the use of one of our long-term residual products by undertaking a wide-reaching efficacy study, which yielded encouraging results for the future. While conducting routine inspections and treatments, the full-time and seasonal Catch Basin staff also submitted over 150 larval samples this season from catch basins producing thousands of mosquitoes in close

proximity to homes, businesses, public recreation, and schools. The crew collaborated with the Public Information and Education department in coordinating the distribution of repellent and educational materials to retirement and assisted living communities as well as a number of service entities. This year also marked the District's first *Aedes aegypti* detection in a catch basin. The crew was able to respond quickly, bringing in an abundance of samples to better understand the scope of the breeding situation in the surrounding area, and accomplished the rigorous inspection and treatment of 1,300 catch basins in a matter of a few days. We are now looking ahead to 2021, where the program will continue to evolve and find ways to better serve the public health needs of our community.

Kevin Combo-North Sacramento Control Operations

In 2020, North Sacramento Control Operations welcomed 4 new control technicians; Tyler Carlson, Whitney Clack, Tim Guimont and Katie Kirkham. Technicians began their season in February by conducting treehole surveillance and treatments in the Rancho Murieta area. They soon moved on to the Pool Program, where staff completed 2550 pool inspections and 1745 treatments. Technicians assigned to agricultural zones continued to inspect and treat mosquito development sites in row crops, dairies, rice fields, and pastures. Service requests were abundant this season with technicians responding to 1690 Service requests in 2020. 1,111 were submitted for mosquito populations, 471 for mosquitofish plants, and an additional 108 requests were submitted for yellowjacket and wasp control.

On 6/24/20 staff detected the 1st West Nile Virus positive pool in the Elder Creek area. Staff subsequently responded to 74 WNV positive samples, 85 dead birds, 1 WNV horse, and 5 WNV positive humans. Staff completed 165 radiuses and 126 Ultra Low Volume (ULV) treatments in response to the WNV positives.

On October 8th 2020, the 1st *Aedes aegypti* was detected in the Arden- Arcade area. Staff readily deployed to the area and targeted 500+ homes for inspection, education and possible adulticide and larval treatments. Technicians conducted multiple WALS and ULV treatments to the affected area. The second detection came on November 4th in the South Sacramento area. Technicians were able to complete a 150 meter radius in response to the initial detection and no other adults or larvae were observed during routine inspections.

Demetri Dokos-South Sacramento Control Operations

Technicians in the South Sacramento zones started working in the field performing mosquito control work in February and by April we were in full stride with our mosquito control efforts. Swimming pool mailers were sent out in April to 105 Elk Grove residents that have historic unmaintained swimming pools. 34% of the mailers were resolved via calls, texts and our live appointment scheduler which saved the Technician the initial trip to the residences.

The first West Nile Virus positive mosquito sample was collected here at the Bond Road Facility on June 8th and tested positive on June 10th, after that the next South Sacramento WNV positive mosquito pool was tested almost 2 months later on August 5th. In total, the South Sacramento Technicians responded to 40 WNV positive mosquito pools, 6 WNV positive dead birds and 1 WNV positive horse.

South Sacramento technicians inspected just under 26,000 mosquito development sites and treated over 3,500 of those sites. For the mosquito development sites that were too big to treat with ground equipment, such as rice fields and wetlands, were turned into Farm Air and Leading Edge for treatment. Technicians also responded to 521 service requests.

The South Sacramento zones also had their first detection of *Aedes aegypti* on October 20th. *Aedes aegypti* larvae were collected from a potted plant saucer while responding to a service request on

West Tyler Island Bridge Road near the Isleton in the Delta. After the initial detection no *Aedes aegypti* adults were collected in traps and no new *Aedes aegypti* larvae were found during inspections along West Tyler Island Bridge Road and Isleton.

Garth Ehrke-South Yolo Control Operations

The 2020 year started out relatively normal for the six technicians and one supervisor which make up the South Yolo county control operations. The year began with shop related activities including training, equipment calibration, per measured larvicide packet assembly and general field preparation. In early spring the technicians transitioned from winter work to field activities with their main focus on spring sources, catch basins in the towns of Davis, West Sacramento, Winters and Clarksburg as well as service requests. For the year the South Yolo crew completed 252 service requests, a reduction of approximately 7% compared to 2019. April marked the start of the rice growing season, while pasture and spring duck pond irrigations started in May with treatments to pastures continuing through the first part of October. The spring irrigations to the duck ponds required approximately 1,500 acres worth of aerial treatments.

From May to September bi-weekly larval rice inspections were performed and the information required for aerial rice treatments was forwarded to Farm Air Flying Services. For the 2020 rice growing season, the South Yolo crew oversaw approx. 12,600 acres of rice including 3,482 acres of organic which was a 23% increase of total rice and a 45% increase in organic compared to the previous year. For the entire growing season, a total of approximately 45,000 acres of rice required aerial treatment with the final order submitted towards the end of September. The South Yolo crew began treating our area's rice growing regions for adult mosquitoes with truck mounted ULV machines in August and continued through the end of September.

The year's first indication of WNV activities for South Yolo County came in the form of both a mosquito pool and a dead bird on August 3rd. For the year we responded to a total of 27 WNV positive dead birds and 36 WNV positive mosquito samples. Compared to last year, positive birds were up 350% (6 to 27) and mosquito samples were down 48%. Larval responses were completed in all areas where WNV was detected and adult treatments were completed in all areas where WNV positive mosquitoes were caught.

The annual "Fall Flood-Up" of duck ponds located in South Yolo County began at the end of August with the first aerial larvicide application performed in early September. For the Fall, a total of 10,270 acres of duck ponds were treated by air.

With the detection of a single *Aedes aegypti* in the town of Winters on September 15th, South Yolo's relatively ordinary year became not so ordinary. The following day the Aedes crew, members of the lab, the Catch Basin crew and the South Yolo crew set out to determine the scope of the infestation. It was determined that the *Aedes aegypti* were established throughout most of the town. For the remainder of the season our main goal was to eradicate this new threat or at the very least reduce their expansion. Crews went door to door educating the residents as well as attempting to gain access to yards so inspections could be done and treatments could be performed where needed. Six WALs and five truck mounted ULV applications were also administered to the town in an effort to control the outbreak. On September 29th another single *Aedes aegypti* was caught in a gravid trap in South Davis, extensive trapping and yard inspection in the area resulted in no additional findings.

Tom Price-Shop

The 2020 year has been both normal and unique at the same time. The shop maintains close to 100 vehicles and close to 50 pieces of powered equipment through the hard work of Ben Weisenberg and Don Henson. The fleet has hit its normal average of over 500,000 miles driven, using about 43,000 gallons of fuel. The newer 2017 Chevy trucks are holding up well and require

less maintenance due to longer fluid change intervals. This allows the shop to take on projects from other departments. This year the shop has created another piece of unique spray equipment, the "WALS" truck, which is an existing spray apparatus that has been heavily modified to fit the needs dictated by the detection of *Aedes aegypti* mosquitoes. Material tank volume was increased from 100 to 200 gallons and a custom flow control system with remote control was fabricated. A heavy duty vehicle was purchased to carry the extra weight. Most recently, the Shop installed the automatic gate opening system for the District's entrance gate with help from the Fisheries department.

Janna McLeod-Administration – Administration Manager

The Administration Department consists of 3 full-time employees, the Administrative Manager, Sr. Administrative Assistant, and Administrative Assistant. The full-time employees are supplemented with a Seasonal Helper during the mosquito season. This year has presented the department with many challenges thanks to the coronavirus. With the initial lockdown starting in mid-March we had to quickly adjust the Seasonal Hiring process. Remaining interviews were conducted online using Google Meet. The orientation and training process was modified to allow for both remote and socially distanced new hire training. All Supervisors who conduct department training recorded their typically in-person training. Those were uploaded and turned into Training Courses and Activities in the District's online training software, Target Solutions. This proved to be a major time saver and will continue to be used with updates and modifications as necessary. During the 2019-2020 Fiscal Year, 2020 Mosquito Season, the department managed the recruitment and hiring processes for 22 Seasonal Helpers. In addition, the department facilitated the hiring of 5 full-time positions, 4 at Bond Road and 1 in Woodland. The front office handles all accounts payable and receivable and has maintained the District financial operations throughout the pandemic. The front office staff instituted remote work during this time with the much needed assistance of our IT Administrator. This remote work has allowed for social distancing within the front office without causing any delays in our normal financial operations. The flexibility and dedication displayed by department staff members Raj Badhan and Kellee Prasad has been invaluable during this time. As a result of the department and District efforts, the District was able to conduct the annual financial audit with social distancing and other protocols in place and received a clean, unmodified opinion on the audit at the Board meeting in November.

Samer Elkashef-Administration – Assistant Manager

2020 started much like any other year until COVID-19 reached the United States and the District needed to quickly pivot to insure that the essential work performed by staff can still be done while minimizing contact between employees and the public. Processes were put into place to abide by Federal, State and Local guidelines and workflows at the District were analyzed to determine what processes can be done remotely and putting the infrastructure in place to do so. The guidelines to COVID-19 are in a constant state of flux and a considerable amount of time has been spent tracking these changes and implementing new standard operating procedures as needed.

Outside of the COVID world, much time was spent working with staff during the season on planning surveillance and control responses, running operations as a whole and making slight tweaks to said operations plan to increase efficiency at the District. On the facilities side, the PCR lab construction and library move was finished at the beginning of the year and work was started on building a new carport behind the fisheries building to reduce congestion in the main

garage. The Fisheries department has put considerable work on the carport project which is slated for completion by the middle of 2021, pending approval by the City of Elk Grove.

Outside of the District, the Assistant Manager continues to serve on the AMCA's Chemical Control Committee and has helped put together a West Nile virus symposium for the 2021 annual meeting. The Assistant Manager serves on the MVCAC's Regulatory Affairs Committee and in 2021 will be stepping into the chair position of the committee.

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