

Sacramento-Yolo
MOSQUITO & VECTOR
CONTROL DISTRICT

MARCH 15, 2022

BOARD OF TRUSTEES

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
March 15, 2022
10:00 AM**

<p><i>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.</i></p>

CALL TO ORDER:

- Roll Call
- Pledge of Allegiance

1. Board Review and Consideration to Authorize the Board Meeting be Conducted by Teleconference

2. Items for Approval by General Consent:

- a. Minutes of the February 15, 2022 Board of Trustees Meeting
- b. Expenditures for February 2022

3. Opportunity for Public Comment

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

4. Reports to the Board

- a. Manager's Report
- b. Reports from AMCA Annual Conference Attendees
- c. Reports from District Departments
 - Lab/Surveillance
 - Ecological Management
 - Biological Control
 - Larval and Adult Control
 - Public Outreach

5. **Board Review and Consideration for Renewal of Leading Edge Contract for Aerial Larviciding Services by UAS**
6. **Closed Session- Consideration and Appointment of Bargaining Team (Gov. Code s. 54957 (b)(1))and Provide Instruction to Designated Labor Representatives (Government Code Section 54957.6-Labor Negotiations)**
7. **Board/Staff General Discussion**
8. **Adjournment**

**MINUTES OF THE FEBRUARY 15, 2022
MEETING OF THE BOARD OF TRUSTEES OF THE
SACRAMENTO-YOLO MOSQUITO & VECTOR CONTROL DISTRICT**

Location: 8631 Bond Road, Elk Grove, CA 95624

Time: 10:00 a.m.

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

Trustees Present:

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

Trustees Absent:

Bruce Eldridge		Yolo County
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Legal Counsel Present: Jennifer Buckman

Staff Present:

Gary Goodman	Manager
Samer Elkashef	Assistant Manager
Shelley Eckler	Administrative Manager
Sarah Wheeler	Laboratory Director
Marty Scholl	Eco Management Supervisor
Tony Hedley	Fisheries Supervisor
Luz Robles	Public Information Officer

Roll Call

This meeting was held and attended by Video Teleconference. Attendance was taken by Roll Call. All Trustees except one were in attendance; therefore, a quorum was present.

Pledge of Allegiance

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

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

On a motion by Secretary Denny and seconded by Trustee Burnett, the Board voted to approve General Consent Items a through c. The vote was taken by roll call and the motion passed by the following vote: Ayes: 11, Noes: 0, Absent: 1.

- a. Minutes of the January 18, 2022 Board of Trustees Meeting
- b. Expenditures for January 2022
- c. District Investment Reports for Period Ending 12/31/2021.

2. **Opportunity for Public Comment**

This item is reserved for members of the public who wish to speak on items not on the agenda.
There were no public comments made.

3. **Reports to the Board**

Manager's Report: The weather has started to warm up and we are beginning to see more mosquito activity. Staff did an excellent job with their presentations at the MVCAC Annual Conference earlier this month. The District gave five talks at the meeting. Staff has submitted the National Pollutant Discharge Elimination System (NPDES) Annual Report to the State Water Resources Control Board.

The MVCAC and AMCA are working on organizing their respective Legislative Days and both events are being planned on a virtual platform. Our Vector Control Joint Powers Authority will be holding their annual workshop virtually on February 17th and 18th.

Please be advised that you will need to submit your Conflict of Interest Form 700 prior to April 2021.

Reports from Trustees Attending the MVCAC Annual Conference: Jayna Karpinski-Costa noted that the Sexual Harassment Prevention training now includes an anti-bullying section. She also briefly discussed the plenary session and the legislative review and spoke on the bumblebee and sterile insect technology projects.

Janell Daroch shared that it was her first time attending the MVCAC conference and she found all presentations she attended to be very educational. She especially enjoyed the historical aspect of the typhus presentation.

Chris Barker stated that the conference was great and that it was good to be able to meet back in person. He spoke briefly on the gene population and genetics overview and gave congratulations to Samer Elkashef for receiving the Presidential award.

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: Sarah Wheeler gave an overview of the surveillance and weekly collections and noted that they are monitoring two *Aedes aegypti* populations in the District. The Negro Bar area is currently the busiest area for tick surveillance and collection. Sarah also gave a brief overview of her presentation she did at the MVCAC conference and stated that it was well received.

Ecological Management: Marty Scholl discussed new planning projects within the City of Sacramento and gave an update on the Roosevelt Ranch project. Marty also stated that his staff assisted the Fisheries Department with creating new berms around our ponds. Marty also discussed his MVCAC experience and the presentation he provided.

Biological Control: Tony Hedley gave an overview of the amount of fish supplied and amount of areas treated and noted that his staff has also been involved in water testing, tank cleaning and medical treatments for the fish.

Larval and Adult Control: Steve Ramos was not in attendance but a written report was provided to the Board.

Public Outreach: Luz Robles gave a brief overview of the proposed advertising campaign, highlighting some of the features, such as increased social media outreach, bilingual educational ads and materials, as well as increased presence in radio and television spots.

4. **Board Review and Consideration of \$345,000 to Fund the Public Outreach Advertising Plan for the 2022 Mosquito Season:** General Manager Gary Goodman presented an overview of the Outreach Plan for the 2022 mosquito season. He highlighted some of the plan's components and stated that many of those components are the same as last year. On a motion made by Trustee Burnett and seconded by Secretary Denny, the Board voted to approve item 4. The vote was taken by roll call and the motion passed by the following vote: Ayes: 11, Noes: 0, Absent: 1.

5. **Board Review and Consideration for Approval of Aerial Larviciding Contract:** Gary Goodman presented an overview of the Farm Air contract. Gary stated that the District had received a bid from VDCI but they could not follow through with their proposal as they did not have an available airport to operate out of with pesticides. Gary recommended that SYMVCD move forward with approving the contract with Farm Air. On a motion by Trustee Burnett and seconded by Trustee Hawkins, the Board voted to approve Item 5. The vote was taken by roll call and the motion passed by the following vote: Ayes: 11, Noes: 0, Absent: 1.

6. **Board/Staff General Discussion**

Gary Goodman mentioned that two architect firms have been engaged to bid on combining the two buildings at the Bond road site. SYMVCD is still in negotiations with CDPH regarding the lease of the building at the Bond road site and the proposed rate increase.

Gary also discussed the changing landscape of COVID-19 regulations and that the District continues to adapt to meet said regulations..

Gary mentioned that the AMCA meeting is set to take place in Florida the first week of March and the attendees representing SYMVCD are Gary Goodman, Sarah Wheeler, Marty Scholl, Ryan Wagner, Kara Kelley, Janell Darroch, and Jayna Karpinky-Costa.

7. **Adjournment**

With no further business to conduct the meeting was adjourned at 11:18 a.m.

Sacramento/Yolo M.V.C.D.

STATEMENT OF OPERATION

	<i>8Months Ended February28 2021</i>	<i>Annual Budget</i>	<i>Unused</i>
Revenue			
REVENUE	9,047,573.65	0.00	9,047,573.65
TOTAL Revenue	9,047,573.65	0.00	9,047,573.65
Expenditures			
SALARIES/BENEFITS/WC			
SALARIES/BENEFITS/WC	6,052,623.59	8,793,710.64	2,741,087.05
TOTAL Salaries	6,052,623.59	8,793,710.64	2,741,087.05
OPERATIONAL			
LIABILITY INSURANCE	167,211.05	171,762.00	4,550.95
AUDITING/FISCAL	16,000.00	17,750.00	1,750.00
COMMUNICATIONS	49,887.57	79,500.00	29,612.43
PUBLIC INFORMATION	168,477.36	502,500.00	334,022.64
STRUCTURE & GROUNDS	64,287.89	65,000.00	712.11
MEMBER/TRAINING	42,181.82	113,000.00	70,818.18
DISTRICT OFFICE EXPENSES	8,913.42	17,500.00	8,586.58
PROFESSIONAL SERVICES	74,938.04	195,250.00	120,311.96
MATERIALS & SUPPLIES	17,629.60	21,000.00	3,370.40
RENTS & LEASES - Admin	6,578.87	11,550.00	4,971.13
SAFETY PROGRAM	1,140.00	5,000.00	3,860.00
UTILITIES	67,849.86	110,000.00	42,150.14
AIRCRAFT SERVICES	619,472.73	955,000.00	335,527.27
ECOLOGICAL MANAGEMENT	860.59	18,600.00	17,739.41
MICROBIAL	761,321.17	1,550,000.00	788,678.83
INSECT GROWTH REGULATOR	757,007.79	1,000,000.00	242,992.21
INSECTICIDES	615,342.58	1,100,000.00	484,657.42
FISHERIES	13,514.11	27,000.00	13,485.89
GEOGRAPHIC INFO SYSTEMS	2,900.00	9,100.00	6,200.00
INFORMATION TECHNOLOGY	29,618.93	68,500.00	38,881.07
CONTROL OPERATIONS	23,364.82	40,200.00	16,835.18
VEHICLE PARTS/LABOR	79,732.31	98,000.00	18,267.69
LAB SERVICES	100,361.37	148,200.00	47,838.63
GAS & PETROLEUM	74,871.55	154,000.00	79,128.45
TOTAL Total Operational	3,763,463.43	6,478,412.00	2,714,948.57

Check History Report
Activity From: 2/1/2022 to 2/28/2022
Sacramento Yolo MVCD (SYC)

Bank Code: U US Bank

Check Number	Check Date	Vendor Number	Name	Check Amount
055517	2/2/2022	0000504	US Bank	21,796.28
055518	2/3/2022	0000006	Adapco Inc	958.33
055519	2/3/2022	0000018	ANDKO Building Maintenance Inc.	4,804.94
055520	2/3/2022	0000029	Arthur J Gallagher Risk Mngmt Svcs	6,332.00
055521	2/3/2022	0001019	Cintas Corporation	1,947.83
055522	2/3/2022	0000116	City of Woodland	24.00
055523	2/3/2022	0000286	Leading Edge Associates Inc.	1,200.00
055524	2/3/2022	0000352	Northern Safety Co	1,082.94
055525	2/3/2022	0000367	PG & E	3,983.30
055526	2/3/2022	0001497	Pure Water Partners	1,438.47
055527	2/3/2022	0000388	Republic Services #922	102.45
055528	2/3/2022	0000391	River City Fire Equipment	4,312.82
055529	2/3/2022	0000451	SMUD	3,898.01
055530	2/3/2022	0000461	Stericycle Inc	89.21
055531	2/3/2022	0001234	T-Mobile	1,453.36
055532	2/3/2022	0002407	Valley Fire & Security	69.50
055533	2/3/2022	0000518	Vector Disease Control International	52,083.33
055534	2/3/2022	0000522	Verizon Wireless	2,882.16
055535	2/3/2022	0000526	VWR International Inc	331.54
055536	2/18/2022	0002425	Aleshire & Wynder, LLP	6,656.00
055537	2/18/2022	0000014	Alhambra & Sierra Springs	79.90
055538	2/18/2022	0000034	AutoZone Inc	1,180.54
055539	2/18/2022	0001011	Buckmaster Office Solutions	423.54
055540	2/18/2022	0000062	CA Department of Fish & Game Sac. Valley	70.30
055541	2/18/2022	0000117	City of Woodland	146.28
055542	2/18/2022	0000126	Complete Welders Supply Inc	2,628.26
055543	2/18/2022	0000128	Consolidated Communications	2,400.14
055544	2/18/2022	0000186	Elk Grove Water District	348.78
055545	2/18/2022	0001054	Employment Developement Dept	7,005.81
055546	2/18/2022	0000958	GreatAmerica Financial Services	372.82
055547	2/18/2022	0000240	Hunt & Sons Inc	3,958.56
055548	2/18/2022	0002526	Janell Darroch	52.60
055549	2/18/2022	0000277	Kimball Midwest	1,081.26
055550	2/18/2022	0002352	Kingsley Bogard, LLP	1,102.50
055551	2/18/2022	0000497	MagneGas Welding Supply	250.25
055552	2/18/2022	0000308	Mann Urrutia Nelson CPAs & Assoc LLP	1,000.00
055553	2/18/2022	0000356	OReilly Automotive Stores Inc	279.15
055554	2/18/2022	0000367	PG & E	1,959.08
055555	2/18/2022	0001270	Rubicon Global, LLC	844.86
055556	2/18/2022	0000413	Sacramento County Utilities	960.54
055557	2/18/2022	0000424	Safe Side Security	120.00
055558	2/18/2022	0000500	United Parcel Service	22.74
055559	2/18/2022	0000501	United Textile Inc	1,180.08
055560	2/18/2022	0000529	Waste Management	175.08
055561	2/18/2022	0000538	Woodland Heating & Air Conditioning Inc	668.20
055562	2/22/2022	0000267	Kaiser Foundation Health Plan	48,305.29
055563	2/22/2022	0000371	Placer MVCD	3,651.25
055564	2/22/2022	0000373	Preferred Benefit Ins Administrators	7,765.20
055565	2/22/2022	0000957	Sutter Health Plus	8,249.15
055566	2/22/2022	0000531	Western Health Advantage	6,709.41
055567	2/22/2022	0000531	Western Health Advantage	3,154.71
055568	2/28/2022	0000043	Benefit Coordinators Corporation	3,248.12
055569	2/28/2022	0000084	CA State Disbursement Unit	350.00
055570	2/28/2022	0001035	Operating Engineers Local Union No. 3	1,273.00

Bank Code: U US Bank

Check Number	Check Date	Vendor Number	Name	Check Amount
W00242	2/3/2022	0000087	CalPERS Financial Reporting & Accounting Services	3,347.13
W00243	2/28/2022	0000086	CalPERS 457 Plan	19,602.98
W00244	2/28/2022	0000087	CalPERS Financial Reporting & Accounting Services	76,765.00
W00245	2/28/2022	0000176	EDD	14,534.41
W00246	2/28/2022	0000339	Nationwide Retirement Solutions	1,550.00
W00247	2/28/2022	0000339	Nationwide Retirement Solutions	3,325.00
W00248	2/28/2022	0000561	United States Treasury	54,457.39
Bank U Total:				400,045.78
Report Total:				400,045.78

I hereby authorize the use of my signature plate on
the above-listed warrants, 055517-055570

Signature

Date

Marcia Mooney, President of the Board

Run Date: 3/7/2022 8:09:44 AM

A/P Date: 3/7/2022

Page:

Sacramento-Yolo Mosquito and Vector Control District

March 15, 2022 Board Meeting

4. Reports to the Board

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

a. Manager's Report

The weather is starting to warm up and we are starting to see more mosquito activity and the potential for breeding sources.

The AMCA annual conference was held the first week of March in Jacksonville. The District is very proud of the staff members that gave presentations and helped in making the event a success. The program should be available online to registered participants for the next few months to view talks that were missed.

The MVCAC Legislative Days will be held virtually and are planned for March 29th and 30th. We will be setting up meetings with our legislators online. Our main ask is for California Department of Fish and Wildlife funding to maintain and enhance best management practices on CDFW properties to reduce mosquito production.

The AMCA Washington Conference is currently set to be held in person May 16-18-subject to change.

Luz Robles is working to schedule presentations with all of the regional City Councils over the next few months. The presentations will either be online, live or as a report depending on the individual preferences of the City.

District staff is working on scheduling interviews to fill current full time and seasonal vacancies within various departments.

b. Reports from AMCA Annual Conference Attendees

c. 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)**

LABORATORY

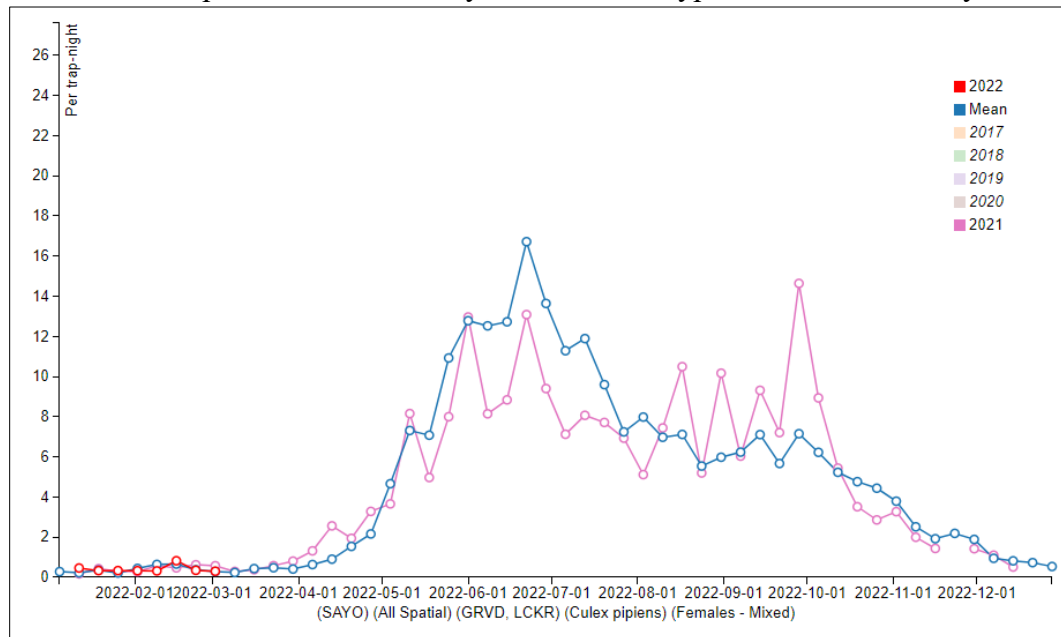
Monthly Report for the March 2022 Board Meeting

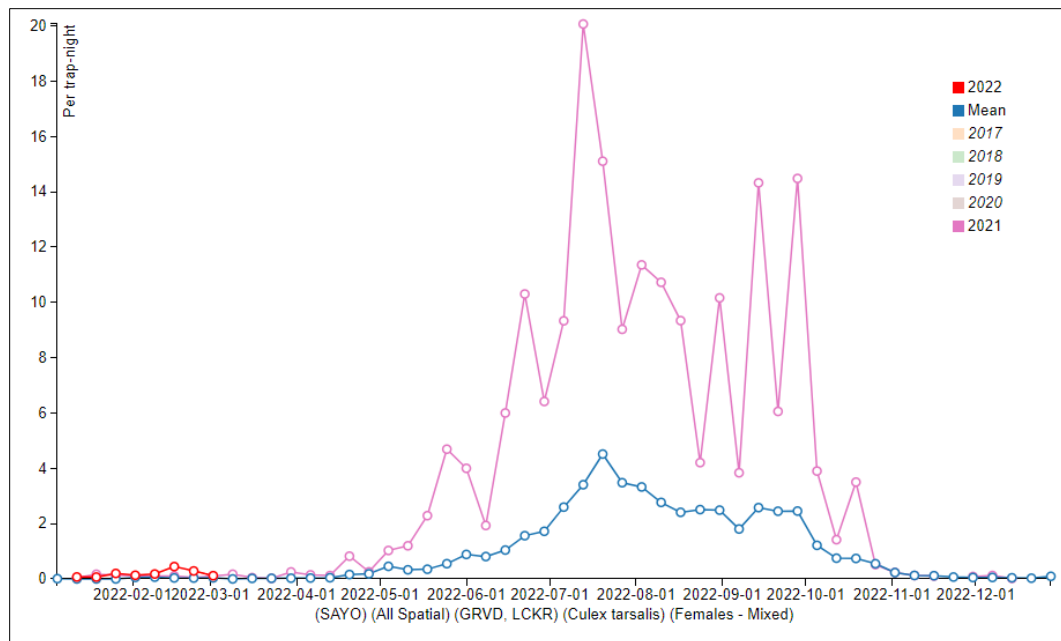
Insectary

Species	Name	Origin	Resistance Status
<i>Culex tarsalis</i>	KNWR	Kern National Wildlife Refuge (2009)	susceptible
<i>Culex quinquefasciatus</i>	CQ1	Merced, CA (1950s)	susceptible
<i>Culex pipiens</i>	WCP	Woodland, CA (2017)	resistant: pyrethrins/pyrethroids, methoprene, and spinosad
<i>Culex tarsalis</i>	VFCT	Vic Fazio Yolo Wildlife Area (2020)	resistant: pyrethrins/pyrethroids
<i>Culex pipiens</i>		South Sacramento (2021)	status under investigation
<i>Aedes sierrensis</i>		Sonoma County (2016)	susceptible

Surveillance

Weekly mosquito collections - The graphs below show overall *Culex tarsalis* and *Culex pipiens* abundance. Trap counts are currently low, which is typical for this time of year.





Encephalitis Virus Surveillance (EVS)

Mosquitoes – We are currently in the planning process for the 2022 surveillance season. Routine trapping will begin again in May.

Sentinel chickens – Sentinel chicken have been ordered and will arrive in April.

Dead birds – The dead bird surveillance program will restart in April.

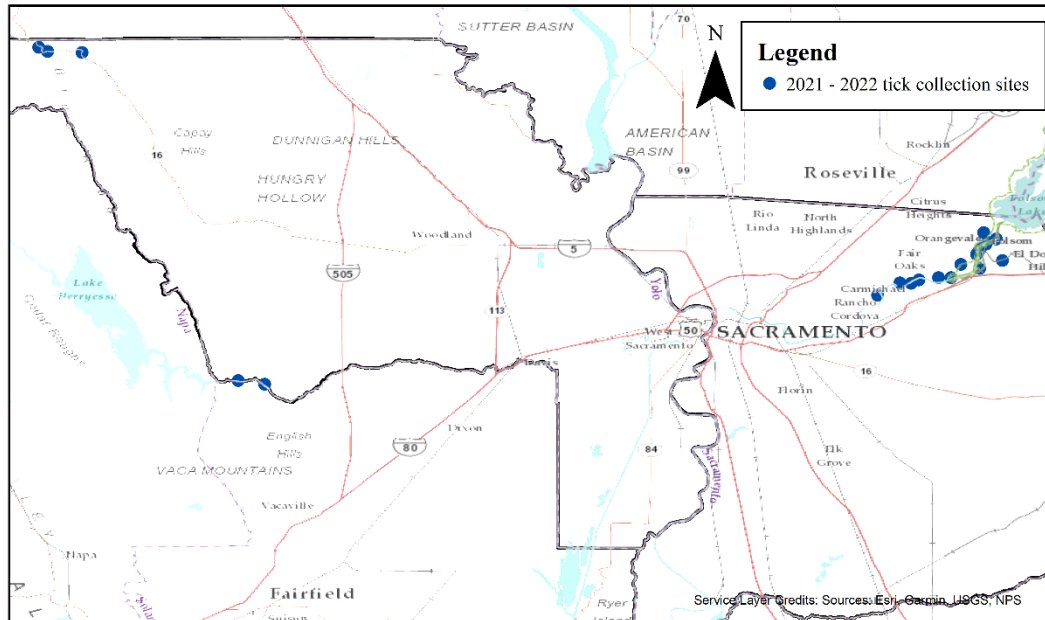
***Aedes aegypti* Surveillance** – We are currently monitoring two overwintering populations of *Aedes aegypti* to better understand seasonal activity patterns. There are four BG sentinel traps deployed in Elk Grove and four deployed in the Elder Creek area of Sacramento. *Aedes aegypti* activity has not been detected since December 1st. *Aedes* surveillance activities will expand in May.

Human Disease Response Surveillance – In February, a human case of Malaria was reported in Sacramento. Traps were set in response; no *Anopheles* species were collected.

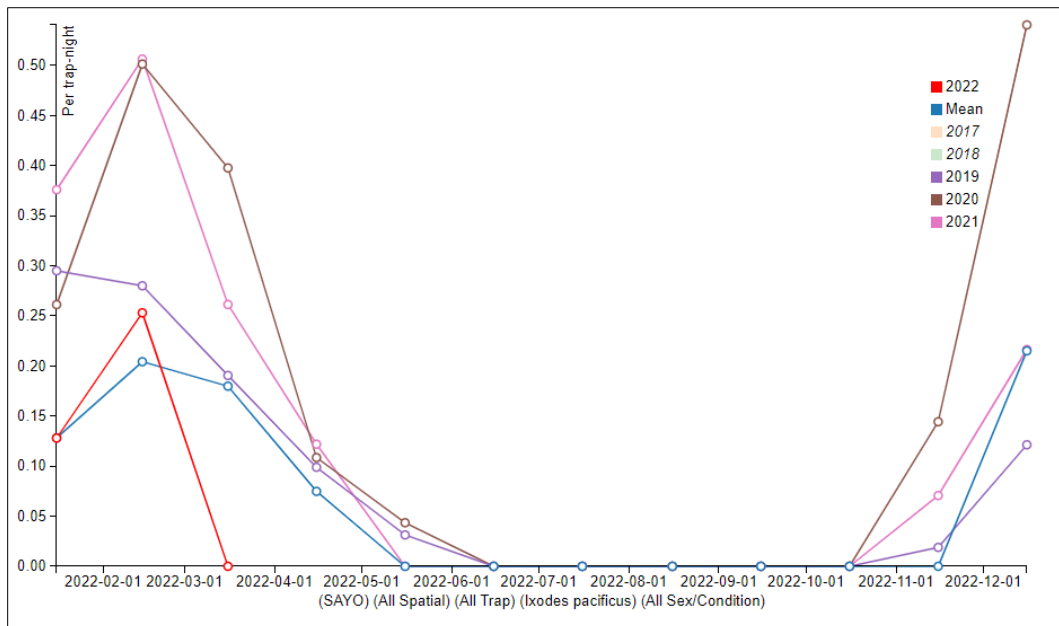
BG Counter Traps – Traps will be deployed at the start of the rice growing season.

The California Arbovirus Surveillance Bulletin updates will begin again in the spring.

Tick and Lyme disease surveillance – During February 377 *Ixodes pacificus* were collected in Sacramento and Yolo Counties, 84 pools were tested for *Borrelia burgdorferi*, and four were positive. Tick collection locations, tick abundance, and positive pools follow.



Map of all 2021 - 2022 tick collection locations



Total number of *Ixodes pacificus* collected across all sampling locations; March collections are not complete

Ixodes pacificus pools positive for *Borrelia burgdorferi*

Year	Month	Location	# <i>Borrelia burgdorferi</i> positive pools
2021	November	Upper Sunrise	1
		East Lake Natoma	2
	December	Nimbus Overlook	1
2022	January	Negro Bar	1
	February	Mississippi Bar	1
		Willow Creek	2
		Negro Bar	2

Senecio Mosquito Counting and Pooling Machine – The Senecio engineering team has assembled our machine and is currently conducting testing on the unit.

Collaborations and District Studies – We are scheduling meetings with collaborators and sketching out project plans for the 2022. Details will be provided as they develop.

ECOLOGICAL MANAGEMENT DEPARTMENT

Monthly Report for the March 2022 Board Meeting

Stormwater / Wetland Program

City of Folsom, Willow Springs Brush Project: Staff utilized the District's trackloader to clear dense brush around the perimeter and interior roadways of the Stormwater treatment basin on Marsh Hawk Road. Hand crews were then able to walk into the area and trim remaining saplings and low lying branches around areas that may need to be checked and treated for mosquitoes during the season.



Natomas Mutual Water Company, Teal Bend: Staff worked with the Natomas Water Company to determine the scope of work required to help open up areas within the ponds located north of the Teal Bend Golf Course. Staff was able to open areas from the interior of the pond to allow technician access, as well as highlight the need to the Water Company to limit excess water flows into the ponds during the summer months. This will be an ongoing annual project to help reduce large mosquito outbreaks from un-planned water events during the mosquito season.



Planning Program

Spruce at Folsom Ranch Tentative Subdivision Map: The City of Folsom is requesting comments on the Mangini Ranch Phase 1 Lot 15 Subdivision known as Spruce at Folsom Ranch. Staff will review the drainage and grading plan and submit comments as appropriate.

BIOLOGICAL CONTROL

Monthly Report for March 2022 Board Meeting

In the month of February the Fisheries Department has been restocking supplies and preparing for the busy mosquito season. We have many projects planned in the upcoming season including pond stocking rates with projected population growth, continued testing of aerator efficacy in earthen ponds and pre and post larval counts in mosquitofish stocked rice fields. Additional ongoing projects include the ideal stocking rates in rice fields and wetlands, efficacy of pond dye when algae problems arise and mosquito larva mortality in mosquitofish stocked sites. With the lack of rain and warming temperatures the use of herbicides to control weeds around our fish rearing ponds and the Bond road facility has been performed. We have utilized our deep well system as needed to keep water levels at desired depths and to add clean water to ponds. With most annual training and continuing education completed the focus can shift to preparing for the moving of fish from our predatory exclusion ponds to our open grow out ponds. The pond stocking process will begin when pond temperatures stabilize near 55 + Fahrenheit. Daily activities such as tank cleaning were also performed to maintain the high quality of our fish population.

Log of Treatment Applied for February

<u>Material</u>	<u>AMT</u>	<u>Area Treated</u>	<u>Treatments</u>
Mosquitofish (<i>Gambusia affinis</i>)	10.550 lbs	50.485 Acres	92
Guppies (<i>Poecilia reticulata</i>)	On hold until weather conditions warm up		

Log of Treatment Applied for the year 2022

<u>Material</u>	<u>AMT</u>	<u>Area Treated</u>	<u>Rate</u>	<u>Treatments</u>
Mosquitofish	11.6 lbs	58.859 Acres	.197 lbs/ac	104

Fisheries Budget

<u>Total</u>	<u>Spent</u>	<u>Remaining</u>	<u>% Spent</u>
32,000.00	21,781.98	10,218.02	68%



CONTROL OPERATIONS

Monthly Report for March 2022 Board Meeting

Culex and West Nile Virus (WNV) Control

There continued to be no WNV detections in the month of February. Field technicians have been responding to an increase in service requests for mosquitofish and adult mosquito activity. Technicians are in the field actively inspecting spring sources within their zones and the District's green pool program started sending out mailers in February.

Calibration and Annual Training

The majority of on truck mounted larvicide equipment has been calibrated. The next set of calibrations will focus on the District's ULV equipment as well as calibrations for our aerial vendors, VDCI and Farm Air Flying Services.

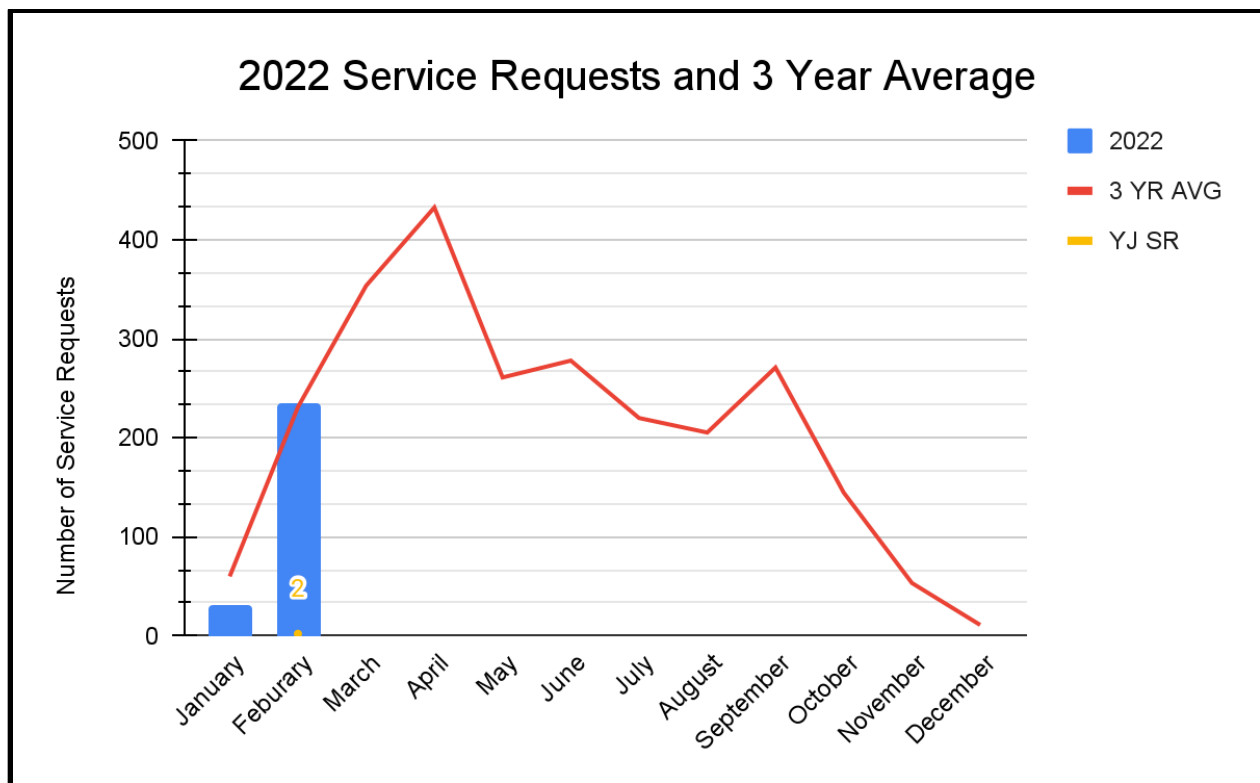
The District administered baseline knowledge testing during this off season which was completed in February. The results of this testing helped direct focus for our Annual Pesticide training that will be performed in March.

Invasive Aedes Control

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

Spring Projects

Crews will continue to perform brush cutting projects as vegetation growth increases during this time of the year. Source updates in Mapvision will also be ongoing as crews begin work in their assigned areas making notes of changes to historic breeding sites.



Larvicide Applications through February 28 th				
Locations/Roles	2022		2021	
	Treatments	Acres	Treatments	Acres
Sacramento County	192	40.7	184	20
Sacramento County Aerial	0 Orders	0	0 Orders	0
Sac County Drone Treatments	0 Orders	0	0 Orders	0
Yolo County	0 Orders	0	1	0.4
Yolo County Aerial	0 Orders	0	0 Orders	0
Yolo County Drone Treatments	0 Orders	0	0 Orders	0
CB Treated	0	--	0	--
CB Inspected -not treated	0	--	0	--

Aerial Adulticide Summary thru February 28 th				
County	2022		2021	
	# Applications	Acres	# Applications	Acres
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

Adulticide Summary through February 28th, 2022

Compared to: 2021

Acres used = 0

0

At this time there have been no aerial adulticide flights performed in 2022

PUBLIC INFORMATION AND EDUCATION

Monthly Report for the March 2022 Board Meeting

Advertising

Planning for the 2022 advertising and media buy has begun. Upon approval of the advertising budget we have moved forward with our media consultant Benjamin/Luken who is working on a media strategy and a draft advertising plan. Currently we are evaluating demographic information as well as reviewing ratings and pricing for the various radio and television stations. These evaluations will allow us to make informed decisions in order to better reach our target audience. A plan that includes a wide mix of advertising outlets will be put together and implemented to kick off Mosquito Awareness Week in April.

Government Affairs

As part of our government affairs and outreach to local elected officials, we have been reaching out to regional City Councils to set up our annual update and presentation given by Gary Goodman. Upcoming 2022 presentation dates include:

April 13	Elk Grove
April 18	Rancho Cordova
April 19	Galt
April 28	Citrus Heights
May 3	Winters
May 10	Woodland (added as a consent item)
May 24	Isleton

In addition to these presentations, we will also set up check-in meetings with the Sacramento County and Yolo County Public Health Officers to discuss invasive mosquitoes, our West Nile Virus surveillance efforts and working together as the season begins.

2022 Fight the Bite Contest and Virtual School Assembly

The 2022 annual Fight the Bite Contest is underway. Fliers were approved by the various school districts and subsequently sent out to the individual schools. The contest is being promoted on social media, at school assemblies and also by emailing past teachers who have submitted entries as well as contacting schools that consistently submit entries. April 6th is the contest deadline and some entries have already been received.

In addition to the contest, the virtual school assembly has been finalized and we will soon begin promoting it on social media and sending it out to teachers to present in the classroom.

Presentations

A total of four mosquito prevention awareness presentations were given recently. The first presentation was to a homeowners association near Arden Arcade and the emphasis was on prevention of invasive mosquitoes. Three presentations were given to students at Toby Johnson Middle School with the goal of providing general mosquito information and promoting the contest.

Events

The 2022 community outreach and event season is upon us. Over the past few weeks we've received applications to return as sponsors for community events that we have attended in the past. We are currently gathering event information and will be putting together a list of potential events to attend given current Covid-19 guidelines and restrictions. Once the list is finalized it will be disseminated to staff who will sign up to work the various event shifts.

Repellent and Materials Distribution

Recently, repellent wipes were delivered to Mercy Peddlers, an organization that serve homeless populations, and to CrossFit Natomas, a local gym located near open fields. The owner contacted the district to request repellent after learning about our program from one of its members.

Annual Report

The 2021 Annual Report has been completed and printed copies will be available soon.

Sacramento-Yolo Mosquito and Vector Control District

March 15, 2022 Board Meeting

5. Board Review and Consideration for Renewal of Leading Edge Contract for Aerial Larviciding Services by UAS

Staff Report:

The District has been working with Leading Edge for larviciding applications by UAS (unmanned aerial system) for the last six years. Leading Edge treated just under 5000 acres by UAS for the District in 2021 in a fraction of the time it would have taken ground crews to do so and also freeing staff time to perform other inspections and treatments. Additionally, Leading Edge is capable of treating areas that the District's current agricultural aerial applicator is unable to fly over due to FAA limitations. The District would like to continue to utilize the services of Leading Edge for the upcoming seasons. The contract would be for a three year period expiring in December of 2024 with an option to renew for an additional two years. The approval of the contract for the 2022 season would commit the District to a minimum expenditure of \$72,000 for their services. We anticipate that the average cost of treatment would be about \$18 per acre. A copy of the current proposal is included.

Recommendation:

Authorize the General Manager to sign a three year contract with Leading Edge for UAS Services.

AERIAL PESTICIDE APPLICATION AGREEMENT

In consideration of the mutual obligations set forth herein, Sacramento-Yolo Mosquito & Vector Control District (DISTRICT) and Leading Edge Aerial Technologies, Inc., a Florida corporation (CONTRACTOR), agree as follows:

1. CONTRACTOR shall perform the aerial application of pesticides using Small Unmanned Aerial Systems (UAS) owned and operated by CONTRACTOR and render other related services described in the attached Appendix A. The type and location of pesticides to be applied and the general time of the pesticide application will be determined by DISTRICT and DISTRICT will supply the pesticide material to CONTRACTOR. CONTRACTOR shall provide all labor, services, equipment, tools, material and supplies required or necessary to properly, competently and completely perform the services under this Agreement. CONTRACTOR shall determine the method, details and means of doing the work consistent with the location and instructions provided by DISTRICT.

2. This Agreement shall be effective on April 15, 2022 and continue until October 31, 2025, with two renewable years after October 31, 2025, unless sooner terminated by either party by giving written notice of termination to the other party at least 30 days prior to termination. Such notice shall be sent to:

If notice to DISTRICT:

Sacramento-Yolo Mosquito and Vector Control District
8631 Bond Road
Elk Grove, CA 95624

If notice to CONTRACTOR:

Leading Edge Aerial Technologies, Inc.
3310 E. Locanda Circle
New Smyrna Beach, Florida 32168

Upon termination, CONTRACTOR shall be fairly compensated for all work performed to the date of termination as calculated by DISTRICT based on the fee and payment provisions below. Such compensation will not include any termination-related expenses, cancellation or demobilization charges, or lost expected or anticipated profit. The parties also may agree in writing to extend the term of this Agreement.

3. CONTRACTOR agrees to utilize UAS pilots maintaining valid FAA remote pilot certificates or more advanced pilot certificates. The certificates and licenses required to perform the services under this Agreement are more particularly described in Appendix A.

4. CONTRACTOR agrees to file with the appropriate agencies within the County where the work is to be performed and maintain all certifications or licenses necessary for the permission to perform UAS aerial application.

5. CONTRACTOR must possess the proper FAA waiver for any UAS weighing 55 pounds or more
6. CONTRACTOR must possess a FAA Part 137 Certificate
7. After delivery of the pesticide material by DISTRICT to CONTRACTOR, the application, handling and storage of pesticides by CONTRACTOR shall be in strict conformity with all applicable federal, state and local laws, regulations, and requirements and including the requirements and limitations of the applicable pesticide label and Material Safety Data Sheet. CONTRACTOR shall at all times be properly licensed and certified by appropriate agencies for the application, handling and storage of pesticides under this Agreement and for the operation of UAS used in such application. CONTRACTOR shall provide the appropriate County with monthly pesticide reports in a timely manner. In accordance with California Code of Regulations title 13, section 2022.1, CONTRACTOR shall comply with all federal, state and local air pollution control laws and regulations applicable to the CONTRACTOR and its work.
8. The locations and timing of the application of pesticides by CONTRACTOR shall be at the discretion and direction of DISTRICT. CONTRACTOR will perform its work consistent with the directions provided by DISTRICT.
9. Pesticides to be applied shall be only those approved by the California Department of Pesticide Regulation and applied under the Cooperative Agreement between the District and the California Department of Public Health. Application shall be by aerial application in accordance with specifications, calibrations, and application rates specified by DISTRICT and the pesticide manufacturer's approved label. CONTRACTOR shall strictly adhere to the specifications and application rates, location and timing provided by DISTRICT and label. In the event that, as a result of improper application techniques or misplacement of pesticide, mosquito populations are not reduced to a level determined to be acceptable by DISTRICT, CONTRACTOR shall not be entitled to compensation for such application. Such compensation may be withheld from any funds due or to become due from DISTRICT.
10. DISTRICT'S representative may inspect and monitor all pesticide storage, handling, and application procedures used by CONTRACTOR. However, any inspection or monitoring by DISTRICT shall not affect the duties or responsibilities of CONTRACTOR as described in this Agreement.
11. CONTRACTOR shall maintain and permit DISTRICT to inspect records showing date, location, type of pesticide, quantity used, and number of acres treated on its behalf. CONTRACTOR shall provide the District with a digital map and records of each mission showing type of pesticide, quantity used and number of acres treated.
12. CONTRACTOR shall provide current written calibration records for all pesticide application equipment used on the DISTRICT'S behalf at the beginning of each application season.
13. CONTRACTOR shall be compensated for its services and expenses as provided in Appendix A of this Agreement. Each invoice submitted to DISTRICT by CONTRACTOR for

payment shall be accompanied by a copy of the applicable records, together with the exact times of application if requested by DISTRICT.

14. CONTRACTOR shall provide pesticide application, surveillance and imagery services relating to the requested applications for the entire geographical area within DISTRICT'S jurisdiction and shall cooperate and assist DISTRICT in obtaining any grants of permission necessary to permit the spraying of pesticides using UAS when requested. Application services shall be performed generally when requested by DISTRICT, weather and flying safety factors permitting.

15. CONTRACTOR's relationship to DISTRICT is that of an independent contractor. All persons hired by CONTRACTOR and performing the Work shall be CONTRACTOR's employees or agents. CONTRACTOR and its officers, employees and agents are not DISTRICT employees, and they are not entitled to DISTRICT employment salary, wages or benefits. CONTRACTOR shall pay, and DISTRICT shall not be responsible in any way for, the salary, wages, workers' compensation, unemployment insurance, disability insurance, tax withholding, and benefits to and on behalf of CONTRACTOR's employees. CONTRACTOR shall, to the fullest extent permitted by law, indemnify DISTRICT, and its officers, employees, volunteers and agents from and against any and all liability, penalties, expenses and costs resulting from any adverse determination by the federal Internal Revenue Service, California Franchise Tax Board, other federal or state agency, or court concerning CONTRACTOR's independent contractor status or employment-related liability.

16. CONTRACTOR shall keep and maintain all ledgers, books of account, invoices, vouchers, and other records and documents evidencing or relating to charges for services, expenditures and disbursements charged to DISTRICT for a minimum period of three years (or for any longer period required by law) from the date of final payment to CONTRACTOR under this Agreement. DISTRICT may inspect and audit such books and records, including source documents, to verify all charges, payments and reimbursable costs under this Agreement.

17. HOLD HARMLESS AND INDEMNITY:

CONTRACTOR agrees to indemnify, defend, protect, and hold harmless DISTRICT, and its officers, employees, volunteers and agents from and against any and all liability, losses, claims, damages, expenses, demands, and costs (including, but not limited to, attorney, expert witness and consultant fees, and litigation costs) of every nature arising out of CONTRACTOR'S performance of the services and caused by any negligent act or omission, willful misconduct or violation of law of or by CONTRACTOR or its employees, agents and subcontractors, except where caused by the active negligence, sole negligence or willful misconduct of DISTRICT or as otherwise provided or limited by law. CONTRACTOR'S obligations under this indemnification provision shall survive the termination of, or completion of services under, the contract.

18. INSURANCE REQUIREMENTS:

CONTRACTOR shall procure and maintain, at its own expense, for the duration of the contract, insurance against claims for injuries to person or damages to property which may arise from or in connection with the performance of the work hereunder by CONTRACTOR, its agents, representatives, or employees. Certified copies of such policies, including endorsements and

renewals, shall be given to DISTRICT prior to the effective date of the policies, endorsements or renewals.

A. Minimum Scope of Insurance

Coverage provided by CONTRACTOR shall include the following:

1. Automobile Liability coverage that is at least as broad as CA 00 01 covering Automobile Liability, code 1 (any auto).
2. Workers' Compensation insurance as required by the State of California and Employer's Liability insurance.
3. Aviation Liability insurance including Chemical Coverage Endorsements, on a form acceptable to DISTRICT.

B. Minimum Limits of Insurance

1. Automobile Liability: \$1,000,000 per accident for bodily injury and property damage.
2. Workers' Compensation: Benefits as per California statutory requirements.
3. Employer's Liability: \$1,000,000 per accident for bodily injury or disease.
4. Aviation Liability Insurance: \$1,000,000 per occurrence. Any Chemical Coverage sub-limits shall be at least \$1000,000/\$300,000/\$100,000 for bodily injury per person, bodily injury per accident & property damage.

C. Other Insurance Provisions

The Automobile Liability and Aviation Liability policies are to contain, or be endorsed to contain, the following provisions:

1. The DISTRICT, its officers, officials, employees, agents, and volunteers are to be named as additional insured as respects liability arising out of the operations of the CONTRACTOR including automobiles owned, leased, hired or borrowed by CONTRACTOR.
2. Each insurance policy required shall be endorsed to state that DISTRICT will be notified of any material change to the policies, and that coverage shall not be suspended, voided, canceled by either party, or reduced in coverage or in limits, except the reduction of aggregate limits by payments of claims, without thirty (30) days prior written notice by certified mail, return receipt requested, being given to DISTRICT.
3. Only to the extent required in Sections 15 (Hold Harmless and Indemnity) and Section 16.C.1 (Insurance Requirements, Other Insurance Provisions), the CONTRACTOR'S insurance coverage shall be primary insurance as respects DISTRICT, its officers, officials, employees, agents, or volunteers. Any insurance or self-insurance maintained by DISTRICT, its officers, officials,

employees, agents, or volunteers shall be excess of CONTRACTOR'S insurance and shall not contribute with it to the extent the CONTRACTOR'S policies apply.

4. Each insurance policy required by this clause shall be endorsed to state that coverage shall not be canceled by either party, except after thirty (30) days' prior written notice by certified mail, return receipt requested, has been given to the DISTRICT.

5. CONTRACTOR'S insurance shall apply separately to each insured against whom a claim is made or suit is brought, except with respect to the limits of the insurer's liability.

D. Deductibles and Self-Insured Retentions

Any deductibles or self-insured retentions must be declared to and approved by DISTRICT. At the option of DISTRICT, either: the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects DISTRICT, its officers, officials, employees, agents, and volunteers; or CONTRACTOR shall provide a financial guarantee satisfactory to DISTRICT guaranteeing payment of losses and related investigations, claim administration and defense expenses.

E. Acceptability of Insurers

Insurance is to be placed with insurers with a current A.M. Best's rating of no less than A:VII unless otherwise acceptable to DISTRICT

F. Verification of Coverage

CONTRACTOR shall furnish DISTRICT with certified copies of the insurance policies, including all endorsements and renewals. All policies and endorsements are to be received and approved by DISTRICT prior to commencement of performance under this Agreement.

G. Subcontractors

CONTRACTOR agrees not to enter into any subcontracting agreements for work contemplated under the Agreement without first obtaining the prior written approval from the DISTRICT. Any approved subcontractor must comply with the same indemnity and insurance requirements and shall be subject to the same provisions as CONTRACTOR. CONTRACTOR shall be fully responsible for the performance of any subcontractor. CONTRACTOR shall act as the single principal for all service in this contract and will specify a single point of contact representing the CONTRACTOR. Subject to the foregoing, this Agreement will bind and inure to the benefit of the successors of the parties

17. DISTRICT'S duties and responsibilities shall include the following:

A. DISTRICT shall not unreasonably request services from CONTRACTOR and shall assist, where possible, in coordinating the timing of services to be performed.

B. DISTRICT shall be responsible to pay all invoices within 30 days of receipt if the work has been satisfactorily completed and the invoice is accurately computed, properly documented and not in dispute.

C. DISTRICT shall identify, in Appendix B, the geographical areas that may be treated with pesticides, including any towns, or cities that may be exposed to the applied pesticides.

D. DISTRICT from time to time shall provide to CONTRACTOR a list of the pesticides that may be used in aerial application and their labels and Material Data Safety Sheets.

E. DISTRICT shall provide the pesticides for application at a location and time upon which DISTRICT and CONTRACTOR agree.

18. State Audit Contingency. In accordance with California Government Code section 8546.7, the parties acknowledge that this Agreement, and performance and payments under it, are subject to examination and audit by the State Auditor General for three years following final payment under the Agreement.

19. CONTRACTOR represents that it is specially trained and experienced, and possesses the skill, ability, knowledge and certification, to competently perform the work provided by this Agreement. DISTRICT has relied upon CONTRACTOR's training, experience, skill, ability, knowledge and certification as a material inducement to enter into this Agreement. All work performed by CONTRACTOR shall be in accordance with applicable legal requirements and meet the standard of care and quality ordinarily to be expected of competent professionals in CONTRACTOR's field.

20. CONTRACTOR shall perform its work and services in compliance with all applicable federal, state and local laws and regulations. CONTRACTOR also shall possess, maintain and comply with all federal, state and local permits, licenses and certificates that may be required for it to perform the work.

21. Any waiver at any time by either party of its rights as to a breach or default of this Agreement shall not be deemed to be a waiver as to any other breach or default. No payment by DISTRICT to CONTRACTOR shall be considered or construed to be an approval or acceptance of any work or a waiver of any breach or default.

22. This Agreement will be governed by and construed in accordance with the laws of the State of California. The county and federal district court where DISTRICT's office is located shall be the venue for any state and federal court litigation concerning the enforcement or construction of this Agreement.

Signatures on the following page

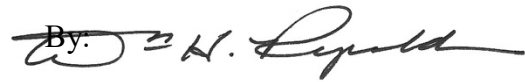
SACRAMENTO-YOLO MOSQUITO
AND VECTOR CONTROL DISTRICT

By: _____

Gary Goodman, Manager

Date:

LEADING EDGE AERIAL
TECHNOLOGIES, INC

By: By. *W. Reynolds*

William Reynolds, President & CEO

Date: 2/22/22

APPENDIX A

DESCRIPTION OF SERVICES AND COMPENSATION

Services

Leading Edge Aerial Technologies, Inc. (LEAT) shall provide the following services to Sacramento-Yolo Mosquito & Vector Control District (District):

- Provide contract aerial pesticide application services using UAS. These services consist of:
 - Dedicated instrument licensed pilots with more than 4,680 hours of UAS and full-scale aircraft logged flight hours;
 - FAA Part 137 Certificate;
 - FAA Part 107 pilot licenses;
 - UAS aircraft insurance;
 - Proper registration with FAA for the use of UAS for imagery, lidar and surveillance;
 - FAA 333 Exemption and or FAA Waiver for the use of the PrecisionVision 35;
 - Certified required training of staff as FAA Visual Observers (VO);
 - Two dedicated UAS systems for use under the Agreement;
 - Ability to apply liquid and granular materials;
 - The capacity to treat up to 200-250 acres per day (granular materials at 5 pounds per acre), inclusive of areas untreatable by conventional ground methods, and the ability to treat near sensitive habitats, organic crops, duck clubs, and conventional habitats.
- Provide integration assistance for performing in-house imagery and surveillance functions and utilizing UAS for aerial pesticide applications.
- The specific equipment and personnel dedicated for use under the Agreement are detailed in the next page.

[Insert pages 3 and 4, entitled “Detailed Services Provided to SacYolo MVCD, Remote Piloted Aircraft and Personnel,” of Leading Edge Aerial Technologies, Inc.’s proposal here.]

Compensation

The District agrees that a minimum payment of \$72,000.00 per year is required for the term of the Agreement (April 15, 2022 through October 31, 2025) for the following: The DISTRICT can exceed the \$72,000.00 if additional acres are required to be treated by the CONTRACTOR.

Larviciding Pricing:

The CONTRACTOR'S pricing will be based on an \$18.00/acre. If the acres for a single day are less than 60 acres, the per day rate will be a fixed cost of \$1,250.00.

Adulticiding Pricing:

The CONTRACTOR can provide the DISTRICT UAS aerial ULV adulticiding services. The number of acres treated per evening or morning is 1,800. The per acre rate is \$1.20 per acre. At present time, the CONTRACTOR can **only** fly over rural/unpopulated areas. Flight times are required to be completed 30 minutes after sunset or up until light conditions prevent visual contact with the UAS. Or 30 minutes after sun-rise.

APPENDIX B

The geographic areas to be treated with insecticides may include any area located within Sacramento or Yolo counties or a neighboring County. The majority of aerial ~~applications spraying~~ utilizing UAS will consist of agricultural, wildlife areas, wetlands, ~~riparian~~, and other similar habitats. Towns, cities, or other populated areas will generally not be included in aerial ~~applications spraying~~; however, in the event of emergency conditions which could result in transmission of vector-borne diseases, aerial ~~applications spraying~~ near populated areas may occur.

Sacramento-Yolo Mosquito and Vector Control District

March 15, 2022 Board Meeting

6. **Closed Session – Consideration and Appointment of Bargaining Team (Gov. Codes. 54957(b)(1)) and Provide Instruction to Designated Labor Representatives (Government Code Section 54957.6 – Labor Negotiations)**