

Marin/Sonoma
Mosquito & Vector Control District
595 Helman Lane
Cotati, California 94931
1-800-231-3236 (toll free) 707-285-2210 (fax)

**BOARD OF TRUSTEES
SPECIAL & REGULAR BOARD MEETING**

DATE: March 8, 2023
TIME: 6:00 p.m. (Special Board Meeting will continue into Regular Board Meeting at 7:00 p.m.)
LOCATION: **Teleconference – See Below**

Please note that options for observing the Board Meeting and for submitting communication regarding the meetings have changed. The Board of Trustees will meet remotely via teleconferencing, as authorized by Government Code Section 54953(e), because state or local officials have imposed or recommended measures to promote social distancing. (Gov. Code §§ 54953(e)(3), (e)(4).). All members of the public seeking to observe and/or to address the local legislative body may participate in the meeting telephonically or otherwise electronically in the manner described below.

The Board Meeting Teleconference:

Click the link on the District's website, <https://www.msosquito.org/board-meetings>, to watch live-streamed meetings. The unique link for each meeting is found on the first page of the applicable agenda (see Zoom Meeting Link below for this meeting).

Public Communication:

The public is welcome to address the Board of Trustees on items listed on the Consent Calendar or on other items not listed on the agenda but within the Board's jurisdiction during the general Public Comment period. There will also be an opportunity for the public to comment on other agenda items at the time they are discussed. Please raise your hand using the electronic "raise hand" button or provide typed comments via the Q & A button. Both features are available at the bottom of the Zoom screen.

The public may submit comments by:

- 1) Emailing comments to dawnw@msosquito.org or
- 2) Delivering written comments via mail to the District; or
- 3) Participating in the teleconference by calling (669) 900-9128 or joining the videoconference at the link provided below:

[Zoom Meeting Link](#)

The Webinar ID is 819 5856 7499

Materials related to an item on this agenda submitted to the Board after distribution of the agenda packet are available for public inspection by contacting the Board Clerk at dawnw@msosquito.org or calling the District's offices at (707) 285-2200. If, due to a disability, and reasonable accommodation is needed to participate in this meeting, please contact the ADA Coordinator 24 hours in advance of the meeting at (707) 285-2204.

Agendas and supporting documents are also available for review on the District's official noticing bulletin board (595 Helman Lane, Cotati, CA 94931) and at the District's website at: <https://www.msмосquito.org/board-meetings>

In accordance with the Americans with Disabilities Act, if you require special assistance to participate in this meeting, please contact the Marin/Sonoma Mosquito & Vector Control District (MSMVCD) at 1-800-231-3236.

Translators, American Sign Language interpreters, and/or assistive listening devices for individuals with hearing disabilities will be available upon request. A minimum of 48 hours is needed to ensure the availability of translation service.

MSMVCD hereby certifies that this agenda has been posted in accordance with the requirements of the Government Code.

*Items marked * are enclosed attachments.*

Items marked # will be handed out at the meeting.

1. **CALL TO ORDER**

2. **PLEDGE OF ALLEGIANCE**

3. **ROLL CALL** (13 members must be present for a quorum)

Bruce Ackerman, Fairfax
Cathy Benediktsson, Tiburon
Gail Bloom, Larkspur
Tamara Davis, Sonoma Co. at Large
Art Deicke, Santa Rosa
Laurie Gallian, Sonoma
Pamela Harlem, San Rafael
Susan Harvey, Cotati
Susan Hootkins, Petaluma
Evan Kubota, Windsor

Shaun McCaffery, Healdsburg
Vicki Nichols, Sausalito
Morgan Patton, Marin Co. at Large
Carol Pigoni, Cloverdale (**First V.P.**)
Diana Rich, Sebastopol (**Secretary.**)
Herb Rowland, Jr., Novato
Ed Schulze, Marin Co. at Large
David Witt, Mill Valley (**Second V.P.**)
Aaron Zavala, Rohnert Park
Richard Snyder, Belvedere (**President**)

Open Seats:

Corte Madera, Ross, San Anselmo and one Sonoma County at Large

4. **APPOINTMENT OF NEW TRUSTEE**

Please welcome our three new trustees: Aaron Zavala, recently appointed by the City of Rohnert Park, Vicki Nichols, recently appointed by the City of Sausalito and Susan Harvey, recently appointed by the City of Cotati.

5. **PUBLIC TIME**

*Public Time is time provided by the board so the public may make comment on any item **not on the agenda**.*

The public will be given an opportunity to speak on each agenda item at the time the item is presented. Once the public comment portion of any item on this agenda has been closed by the Board, no further comment from the public will be permitted unless authorized by the Board President and if so authorized, said additional public comment shall be limited to the provision of information not previously provided to the Board or as otherwise limited by order of the Board.

We respectfully request that you state your name and address and provide the Board President with a Speaker Card so that you can be properly included in the consideration of the item.

Please limit your comments to three (3) minutes per person or twenty (20) minutes per subject in total so that all who wish to speak can be heard.

6. **CONSENT CALENDAR**

A. APPROVAL OF AGENDA

B.* Resolution 2022/23-10: Authorizing Remote Teleconference/Virtual Meetings of the District Pursuant to Government Code Section 54953(e)(3)

Staff Report: The attached proposed resolution would authorize the Board of Trustees to continue to hold virtual/teleconference meetings in compliance with Brown Act, considering the termination of the Governor's declared state of emergency and new state standards regarding recommended social distancing measures.

C.* MINUTES – Minutes of Board Meeting held on February 8, 2023.

D.* FINANCIAL REPORTS – Review Financial Reports for February 2023.

ACTION NEEDED

INFORMATION ENCLOSED

7. **NEW BUSINESS**

A.* Laboratory Update

Presentation by Dr. Kelly Liebman, Scientific Programs Manager

INFORMATION ENCLOSED

8. **COMMITTEE & STAFF REPORTS**

A. Executive Committee

Report by President Richard Snyder

9.* MANAGER'S REPORTS

INFORMATION ENCLOSED

10. WRITTEN COMMUNICATIONS

CORRESPONDENCE RECEIVED BY THE DISTRICT FROM RESIDENTS OR ANY OTHER PARTY
SHALL BE READ ALOUD OR HANDED OUT TO THE BOARD

11. OPEN TIME FOR BOARD OR STAFF COMMENTS

12. ADJOURNMENT

RESOLUTION NO. 2022/23-10

**A RESOLUTION OF THE BOARD OF TRUSTEES OF THE
MARIN/SONOMA MOSQUITO & VECTOR CONTROL DISTRICT
AUTHORIZING REMOTE TELECONFERENCE/VIRTUAL MEETINGS
OF THE DISTRICT PURSUANT TO GOVERNMENT CODE SECTION 54953(e)**

WHEREAS, the Board of Trustees of the Marin/Sonoma Mosquito & Vector Control District (“District”) is committed to preserving and nurturing public access and participation in meetings of the Board; and

WHEREAS, meetings of the Board are open and public, as required by the Ralph M. Brown Act (Government Code Sections 54950 – 54963); and

WHEREAS section 54953(e) of the Brown Act makes provisions for remote teleconferencing participation subject to the existence of certain conditions. To continue meeting by remote teleconferencing means without complying with section 54953(b)(3), a required condition is that state or local officials have imposed or recommended measures to promote social distancing, and that the legislative body continues to make certain findings by majority vote at least every 30 days; and

WHEREAS, among other measures to promote physical distancing, the California Division of Occupational Safety and Health (“Cal/OSHA”) regulations at Title 8 Section 3205 recommend physical distancing in the workplace as precautions against the spread of COVID-19 and imposes certain restrictions and requirements due to a “close contact” which occurs when individuals are within six feet of another person in certain circumstances; and

WHEREAS, the Centers for Disease Control and Prevention continue to recommend avoiding contact and keeping a safe distance from a person who has a suspected or confirmed case of COVID-19; and

WHEREAS, to allow for physical distancing and remote meeting attendance in accordance with these recommended measures, the District desires to have procedures in place for the option to provide virtual access to Board meetings, with or without a public meeting location (“AB 361 Option”). Adoption of this Resolution will permit virtual meetings without the need to comply with Government Code Section 54953(b)(3), as authorized by Government Code Section 54953(e), and in such cases, the Board shall comply with the requirements to provide the public with access to the meetings as prescribed in Government Code Section 54953(e)(2); and

WHEREAS, as permitted under when the AB 361 Option is utilized, the District will provide the public with the ability to attend Board meetings virtually. When the AB 361 Option is utilized, members of the public who wish to provide comment may make comments virtually.

NOW, THEREFORE, BE IT RESOLVED by the Board of Trustees of the Marin/Sonoma Mosquito & Vector Control District as follows:

SECTION 1. Recitals. The above recitals are incorporated as though set forth in this section.

SECTION 2. Authorization. The Board, and the District Manager or his designee, is hereby authorized and directed to take all actions necessary to carry out the intent and purpose of this Resolution, including conducting open and public meetings in accordance with Government Code Section 54953(e) and other applicable provisions of the Brown Act.

SECTION 3. Effective Date. This Resolution shall take effect immediately upon its adoption and shall be effective until the earlier of: (a) 30 days; or (b) such time as the Board adopts a subsequent resolution in accordance with Government Code Section 54953(e)(3) to extend the time during which the Board may continue to hold teleconference meetings without compliance with Government Code Section 54953(b)(3).

SECTION 4. Severability. Should any provision of this Resolution, or its application to any person or circumstance, be determined by a court of competent jurisdiction to be unlawful, unenforceable or otherwise void, that determination shall have no effect on any other provision of this Resolution or the application of this Resolution to any other person or circumstance and, to that end, the provisions hereof are severable.

Passed and adopted at a special meeting of the Board of Trustees held March 8, 2023, by the following roll call vote:

	Yes	No	Abstain	Absent
Bruce Ackerman	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cathy Benediktsson	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gail Bloom	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tamara Davis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Art Deicke	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Laurie Gallian	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pamela Harlem	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Susan Harvey	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Susan Hootkins	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Evan Kubota	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shaun McCaffery	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vicki Nichols	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Morgan Patton	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Carol Pigoni	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Diana Rich	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Herb Rowland	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ed Schulze	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
David Witt	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aarón Zavala	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Richard Snyder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Totals:				

ATTEST:

APPROVED:

Diana Rich
Secretary, Board of Trustees

Richard Snyder
President, Board of Trustees

Marin/Sonoma Mosquito & Vector Control District

Board of Trustees
595 Helman Lane
Cotati, CA 94931

Meeting Held via Videoconference
February 8, 2023

SPECIAL & REGULAR BOARD MEETING MINUTES

1. **CLOSED SESSION**
 - A. **Closed Session pursuant to California Government Code Section 54957.6**
CONFERENCE WITH LABOR NEGOTIATORS
District Representatives: Kelly Tuffo, Liebert Cassidy Whitmore
Philip Smith
Erik Hawk

Employee Organization: Western Council of Engineers
 - B. **Adjourn Closed Session to Open Board Meeting at 7 pm or as soon as possible after Closed Session.**
Nothing to report.
2. **CALL TO ORDER**
President Snyder called the meeting to order at 6:35 pm.
3. **PLEDGE OF ALLEGIANCE**
4. **ROLL CALL**
Members present:

Ackerman, Bruce	McCaffery, Shaun
Benediktsson, Cathy	Patton, Morgan
Bloom, Gail	Pigoni, Carol
Davis, Tamara	Rich, Diana
Deicke, Art	Schulze, Ed
Harlem, Pamela	Snyder, Richard
Hootkins, Susan	Witt, David
Kubota, Evan	Gallian, Laurie

Members absent:

Khush, Ranjiv
Rowland Jr., Herb

Open seats: Corte Madera, Cotati, Rohnert Park, Ross, Sausalito and one Sonoma County at Large.

Others present:

Philip Smith, District Manager
Erik Hawk, Assistant Manager
Dana Shigley, Management Aide
Dawn Williams, Confidential Administrative Assistant
Janet Coleson, General Counsel

A quorum was present and due notice had been published.

5. **PUBLIC TIME**

No public comment.

6. **CONSENT CALENDAR**

A. CHANGES TO AGENDA/APPROVAL OF AGENDA

B. Resolution 2022/23-07: Authorizing Remote Teleconference/Virtual Meetings of the District Pursuant to AB 361

C. MINUTES – Minutes for Special Board Meeting held on January 11, 2023.

D. JANUARY 2023 FINANCIAL REPORTS

It was M/S Trustee McCaffery/Trustee Davis to accept the Consent Calendar:

Motion passed with a roll call vote:

Ayes: Trustee Ackerman, Trustee Benediktsson, Trustee Bloom, Trustee Davis, Trustee Deicke, Trustee Gallian, Trustee Harlem, Trustee Hootkins, Trustee Kubota, Trustee McCaffery, Trustee Patton Trustee Pigoni, Trustee Rich, Trustee Schulze, Trustee Witt and Trustee Snyder

No: (none)

Abstain: (none)

Absent: Trustee Khush and Trustee Rowland

7. **NEW BUSINESS**

A. Brief Reports by Trustees and Staff who attended the 2023 Mosquito Vector Control Association of California (MVCAC) Annual

Conference attendees comprised Trustee Witt, Scientific Programs Manager Dr. Kelly Liebman, Education Program Specialist Casey Richter and Manager Smith. All the attendees described the conference as being informative and engaging. Each person gave a brief synopsis of one or more topics of interest.

B. Board Committee Assignments

President Snyder informed the Board that the committee roster will stand as is, with the exception of adding Trustee Benediktsson to the Budget Committee.

C. Recommended Changes to Finance Office Staff Assignments and Positions

It was M/S Trustee Gallian/Trustee Pigoni to adopt Resolution 2022/23-08 approving changes to staff positions in the Finance Office.

Motion passed with a roll call vote:

Ayes: Trustee Ackerman, Trustee Benediktsson, Trustee Bloom, Trustee Davis, Trustee Deicke, Trustee Gallian, Trustee Harlem, Trustee Hootkins, Trustee Kubota, Trustee McCaffery, Trustee Patton Trustee Pigoni, Trustee Rich, Trustee Schulze, Trustee Witt and Trustee Snyder

No: (none)

Abstain: (none)

Absent: Trustee Khush and Trustee Rowland

D. Mid-Year Budget Status Report and Proposed Amendment

It was M/S Trustee Benediktsson/Trustee Schulze to adopt Resolution 2022/23-09 amending the Fiscal Year 2022/23 Adopted Budget.

Motion passed with a roll call vote:

Ayes: Trustee Ackerman, Trustee Benediktsson, Trustee Bloom, Trustee Davis, Trustee Deicke, Trustee Gallian, Trustee Harlem, Trustee Hootkins, Trustee Kubota, Trustee McCaffery, Trustee Patton Trustee Pigoni, Trustee Rich, Trustee Schulze, Trustee Witt and Trustee Snyder

No: (none)

Abstain: (none)

Absent: Trustee Khush and Trustee Rowland

E. General Counsel to provide an update on changes to the Brown Act

General Counsel Janet Coleson informed the Board that the pandemic state of emergency declared by the governor will end on February 28, 2023. The new Brown Act provisions under AB 2449 were presented. It was noted that if the Board would like to continue meeting via zoom through the sunset date of December 31, 2023, they will need to continue to make findings that social distancing is still recommended by state or local officials and the provisions of AB 361 remain effective until the sunset date of January 1, 2024. There is a requirement for the legislative body to make findings by majority vote that Covid-19 continues to directly impact the ability of members to meet safely in person and that state or local officials continue to impose or recommend measures to promote social distancing.

8. COMMITTEE & STAFF REPORTS

No committee or staff reports.

9. MANAGER'S REPORTS

Manager Smith referred the Board to his written report and offered to answer any questions.

Assistant Manager Hawk added to his written report that the District will be using Unmanned Aerial Systems (drones) in the near future for some mosquito larvicide applications. (*Manager's and Assistant Manager's reports were included in the February Board packet*)

10. WRITTEN COMMUNICATIONS

No written communications.

11. OPEN TIME FOR BOARD OR STAFF COMMENTS

President Snyder stated that he would like the Executive Committee to meet before the next Board meeting.

Trustee Hootkins inquired about the cyber-attack and whether other mosquito districts were affected. Manager Smith explained that the District's IT contractor was compromised along with some of his clients, but no other mosquito districts were impacted.

Trustee Benediktsson stressed the importance of attending every Board meeting so that a quorum can be achieved.

12. ADJOURN INTO CLOSED SESSION

There being no further business to come before the Board, It was M/S Trustee Benediktsson/Trustee Schulze to adjourn the meeting at 8:48 pm.

District Representative
MSMVCD

Date of Approval

Trustee
MSMVCD Board of Trustees

Date of Approval

Vendor	Amount	Description	Fund
AFLAC	1,582.90		GENERAL
ALBOUM & ASSOCIATES LLC.	208.14	Printing Services	GENERAL
ALDRICH NETWORK CONSULTING	2,144.77	Computers and Laptops	GENERAL
ALDRICH NETWORK CONSULTING	8.69	Computer Network and Storage	GENERAL
ALDRICH NETWORK CONSULTING	5,000.00	Network and IT Consulting Services	GENERAL
ARGO ADVENTURE/LIEWER	374.14	ARGO Repair	GENERAL
AT & T	279.66	AT&T	GENERAL
AVQUEST INSURANCE SERVICE	4,060.00	Aircraft Excess Coverage	GENERAL
BAY ALARM COMPANY	1,401.27	Alarm Services	GENERAL
BAY AREA AIR QUALITY	422.00	Other Fees, Permits and Taxes	GENERAL
BEST BEST & KRIEGER, LLC.	652.50	Legal Counsel	GENERAL
CA SURVEYING & DRAFTING SUPPLY INC. SACR	1,920.00	Computer Software	GENERAL
CAGWIN & DORWARD	599.00	Landscape Services	GENERAL
CALPERS	3,495.00		GENERAL
CALPERS 457 PLAN	3,495.00		GENERAL
CINTAS CORPORATION	1,826.14	Uniforms	GENERAL
CINTAS CORPORATION	1,024.08	First Aid Supplies and Kits	GENERAL
CINTAS CORPORATION	1,518.00	COVID-19 Expenses	GENERAL
COMCAST BUSINESS	110.70	Comcast	GENERAL
CONSUMERINFO.COM	606.95	Other Professional Services - IT	GENERAL
COUNTY OF MARIN	23,130.14	Retiree Medical Benefit	GENERAL
Connect Your Care	12.58	Other Professional Services - Human	GENERAL
DEEPSEAS, LLC.	7,192.00	Computer Software	GENERAL
DELTA DENTAL OF CALIFORNIA	3,540.88	Dental - Active Employees	GENERAL
GENEVA SCIENTIFIC, LLC	14,550.91	Lab Equipment	CAPITAL PROJECTS
GIVE ME FIVE LLC.	2,152.60	Presentation Supplies	GENERAL
GREAT AMERICA FINANCIAL SERVICES	699.08	Copier Supplies	GENERAL
GREAT AMERICA FINANCIAL SERVICES	664.18	Copy Machine Lease	GENERAL
HOME DEPOT CREDIT SERVICES	84.74	ARGO Repair	GENERAL
HOME DEPOT CREDIT SERVICES	-3.60	Contingency	GENERAL
HOMESCAPE EVENTS LLC.	975.00	Booth Rental	GENERAL
IDESIGN	3,460.00	Presentation Supplies	GENERAL
INNOVATIVE SCREEN PRINTING	1,220.80	Coats, Rain Gear and Boots	GENERAL
INTERSTATE BATTERY SYSTEM	293.08	Vehicle Maintenance	GENERAL
JAY'S ENGRAVING & RUBBER STAMPS	140.73	Office Supplies	GENERAL
KAISER FOUNDATION HEALTH PLAN	7,187.50		GENERAL
KAISER FOUNDATION HEALTH PLAN	50,566.04	Kaiser - Active Employees	GENERAL
KEVIN BEARDSLEY	179.85	Employee Boot Allowance	GENERAL
LEADING EDGE AERIAL TECHNOLOGIES, INC.	11,074.32	Aerial Surveillance - Swimming Pools	GENERAL
LIEBERT CASSIDY WHITMORE	2,215.00	Human Resources Legal Services	GENERAL
LIFE TECHNOLOGIES CORPORATION	31.54	RT PCR Supplies	GENERAL
LOWE'S BUSINESS ACCOUNT	1,925.00	Appliances and Office Tools	GENERAL
LOWE'S BUSINESS ACCOUNT	53.23	Truck Mount Water Tanks	GENERAL
MARC NADALE	200.00	Employee Boot Allowance	GENERAL
MARIN COUNTY EMPLOYEES RETIREMENT ASSOC	73,781.00		GENERAL
MARIN COUNTY EMPLOYEES RETIREMENT ASSOC	113,504.72	Retirement - Employer Classic	GENERAL
MARIN COUNTY EMPLOYEES RETIREMENT ASSOC	49,307.41	Retirement - Employer PEPR	GENERAL
MARIN INDEPENDENT JOURNAL	50.00	Newspaper and Legal Notices	GENERAL
MICHAEL WELLS	500.00	Employee Wellness Benefit	GENERAL
MISSION SQUARE RETIREMENT	2,490.93	Retiree Health Savings Account	GENERAL
NATIONWIDE TRUST COMPANY, FSB	2,750.00		GENERAL
NICK BARBIERI TRUCKING,LLC	15,280.96	Fuel and Oil	GENERAL
NORTH BAY COMMERCIAL SERVICES INC.	7,480.75	HVAC	GENERAL

Vendor	Amount	Description	Fund
NORTH MARIN WATER DISTRICT	412.82	Hydrant Water	GENERAL
NORTHBAY AUTO WRAPS	1,254.63	Outdoor Advertising	GENERAL
OFFICE DEPOT BUSINESS CREDIT	29.54	Other Food and Household Supplies	GENERAL
OFFICE DEPOT BUSINESS CREDIT	184.95	Office Supplies	GENERAL
P.G.& E.	5,454.43	Gas and Electricity	GENERAL
PATRICK VON ELM	1,350.00		GENERAL
POLSINELLI PC	22,492.50	Other Professional Services - IT	GENERAL
PREFERRED ALLIANCE, INC.	392.92	Other Professional Services - Human	GENERAL
QUADIENT LEASING USA, INC.	282.34	Postage Machine Lease	GENERAL
RECOLOGY SONOMA MARIN	395.98	Solid Waste Collection and Disposal	GENERAL
REGIONAL GOVERNMENT SERVICES	7,360.90	Other Professional Services - Human	GENERAL
RICHARD A. SANCHEZ	1,642.50	Janitorial Services	GENERAL
SANTA ROSA AUTO PARTS	105.20	Vehicle Maintenance	GENERAL
SANTA ROSA AUTO PARTS	60.35	ARGO Repair	GENERAL
SEAN O'BRIEN	200.00	Employee Boot Allowance	GENERAL
SEAN O'BRIEN	56.60	Employee Wellness Benefit	GENERAL
SEBASTOPOL BEARING & HYDRAULIC	295.17	Vehicle Maintenance	GENERAL
SEBASTOPOL BEARING & HYDRAULIC	181.42	ARGO Repair	GENERAL
SONOMA MEDIA INVESTMENTS, LLC	103.00	Newspaper and Legal Notices	GENERAL
SPARK CREATIVE DESIGN	3,683.08	Printing Services	GENERAL
TASC	1,065.60		GENERAL
TEAMSTERS LOCAL UNION NO. 856 HEALTH AND	337.50		GENERAL
TEAMSTERS LOCAL UNION NO. 856 HEALTH AND	1,467.01	Teamsters Anthem	GENERAL
THE HARTFORD	277.20	Sentry Life and Hartford Life	GENERAL
TRACEPOINT, LLC.	12,780.33	Other Professional Services - IT	GENERAL
US BANK	284.43	Coats, Rain Gear and Boots	GENERAL
US BANK	31.28	Eye Wear, Wash and Eye Glass Wipes	GENERAL
US BANK	288.81	Other Food and Household Supplies	GENERAL
US BANK	383.07	Office Supplies	GENERAL
US BANK	48.26	Presentation Supplies	GENERAL
US BANK	136.78	Other Office Expense	GENERAL
US BANK	117.02	Other Lab Supplies	GENERAL
US BANK	244.07	Field Tools	GENERAL
US BANK	199.62	Furniture	GENERAL
US BANK	134.00	Appliances and Office Tools	GENERAL
US BANK	300.91	Computer Software	GENERAL
US BANK	81.03	Printers	GENERAL
US BANK	52.55	Vehicle Maintenance	GENERAL
US BANK	565.49	ARGO Repair	GENERAL
US BANK	493.44	Admin Building	GENERAL
US BANK	225.00	Recruitment Services	GENERAL
US BANK	29.00	Printing Services	GENERAL
US BANK	28.00	Other Memberships and Subscriptions	GENERAL
US BANK	1,359.97	Staff Travel	GENERAL
US BANK	327.58	Trustee Travel	GENERAL
US BANK	185.00	Booth Rental	GENERAL
US BANK	469.00	Contingency	GENERAL
US BANK	932.80	COVID-19 Expenses	GENERAL
VISION SERVICE PLAN (CA)	844.08	Vision Service Plan - Active Employees	GENERAL

Total: 497,047.47

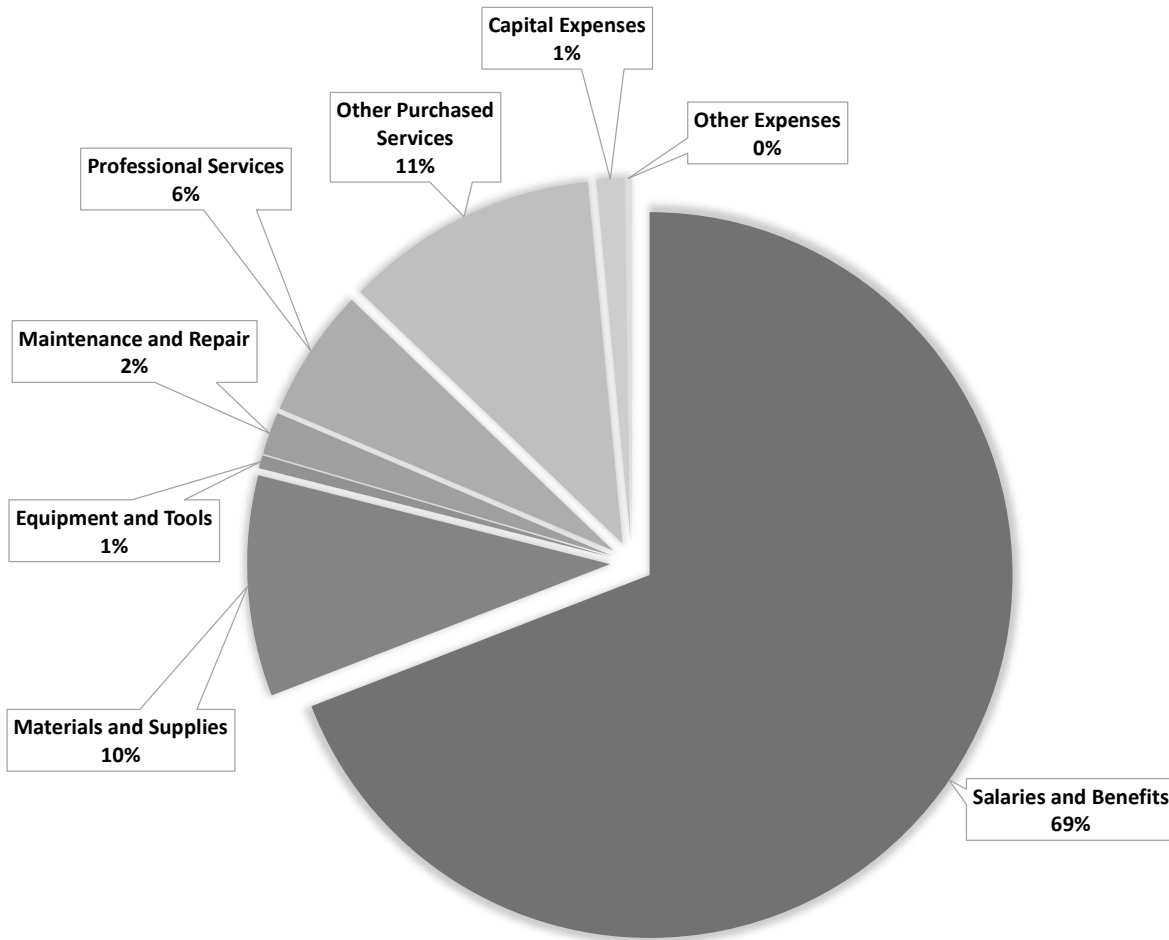
Objects 6000-6065

Object	Committed Current Month	Committed YTD	Original Appropriation	Current Appropriation	Available Appropriation	% Committed
6010 Salaries and Wages	310,406.78	2,554,919.31	4,070,819.00	3,893,419.00	1,338,499.69	66 %
6012 MCERA Credit	3,149.24	18,427.48	30,080.00	30,080.00	11,652.52	61 %
6014 Overtime	0.00	12,126.32	30,600.00	30,600.00	18,473.68	40 %
6015 Seasonal Wages	7,320.00	113,834.20	316,000.00	358,000.00	244,165.80	32 %
6016 Trustee Wages	0.00	4,900.00	16,000.00	16,000.00	11,100.00	31 %
6022 Medicare Employer portion	4,521.97	38,176.06	64,976.00	64,976.00	26,799.94	59 %
6023 FICA (Social Security)	453.84	7,363.95	20,584.00	20,584.00	13,220.05	36 %
6030 Retirement - Employer Classic	113,504.72	467,391.89	711,776.00	711,776.00	244,384.11	66 %
6032 Retirement - Employer PEPRA	49,307.41	199,627.83	349,858.00	299,758.00	100,130.17	67 %
6041 Kaiser - Active Employees	50,566.04	393,038.30	632,865.00	574,115.00	181,076.70	68 %
6043 Dental - Active Employees	3,540.88	28,696.10	46,395.00	46,395.00	17,698.90	62 %
6045 Vision Service Plan - Active Employees	844.08	7,703.52	11,676.00	11,676.00	3,972.48	66 %
6047 Teamsters Anthem	1,467.01	11,269.82	17,192.00	17,192.00	5,922.18	66 %
6051 Sentry Life and Hartford Life	277.20	3,611.14	4,855.00	4,855.00	1,243.86	74 %
6053 Employee Assistance Program	0.00	1,035.12	2,455.00	2,455.00	1,419.88	42 %
6055 Employee Boot Allowance	579.85	1,942.81	7,600.00	7,600.00	5,657.19	26 %
6057 Employee Wellness Benefit	982.93	5,471.93	18,250.00	18,250.00	12,778.07	30 %
6059 State Unemployment (5.0% x 44 emp)	113.02	8,610.00	19,375.00	19,375.00	10,765.00	44 %
6061 Retiree Spousal - Teamsters, WHA or UH	0.00	0.00	36,200.00	0.00	0.00	0 %
6063 Retiree Spousal - Kaiser	0.00	0.00	71,200.00	0.00	0.00	0 %
6065 Retiree Medical Benefit	23,130.14	184,794.02	171,126.00	278,526.00	93,731.98	66 %
6XXX Object Group Total	570,165.11	4,062,939.80	6,649,882.00	6,405,632.00	2,342,692.20	63 %
Grand Total:	570,165.11	4,062,939.80	6,649,882.00	6,405,632.00	2,342,692.20	63 %

Monthly Budget Summary Report
February-23

	Current Month Expenditures	YTD Expenditures	% of Total Expenditures	Current Budget	Available Budget	% of Budget Spent YTD
Salaries and Benefits	572,656	4,084,184	69%	7,047,317	2,963,133	58%
Materials and Supplies	27,340	581,025	10%	924,447	343,422	63%
Equipment and Tools	14,150	34,361	1%	124,280	89,919	28%
Maintenance and Repair	24,590	111,455	2%	245,350	133,895	45%
Professional Services	71,598	339,459	6%	808,297	468,838	42%
Other Purchased Services	16,365	669,430	11%	960,832	291,402	70%
Capital Expenses	-	72,837	1%	404,505	331,668	18%
Other Expenses	2,916	16,431	0%	583,517	567,086	3%
	729,616	5,909,182	100%	11,098,545	5,189,363	53%

YTD EXPENDITURES BY TYPE
SHOWN AS A PERCENT OF TOTAL EXPENDITURES



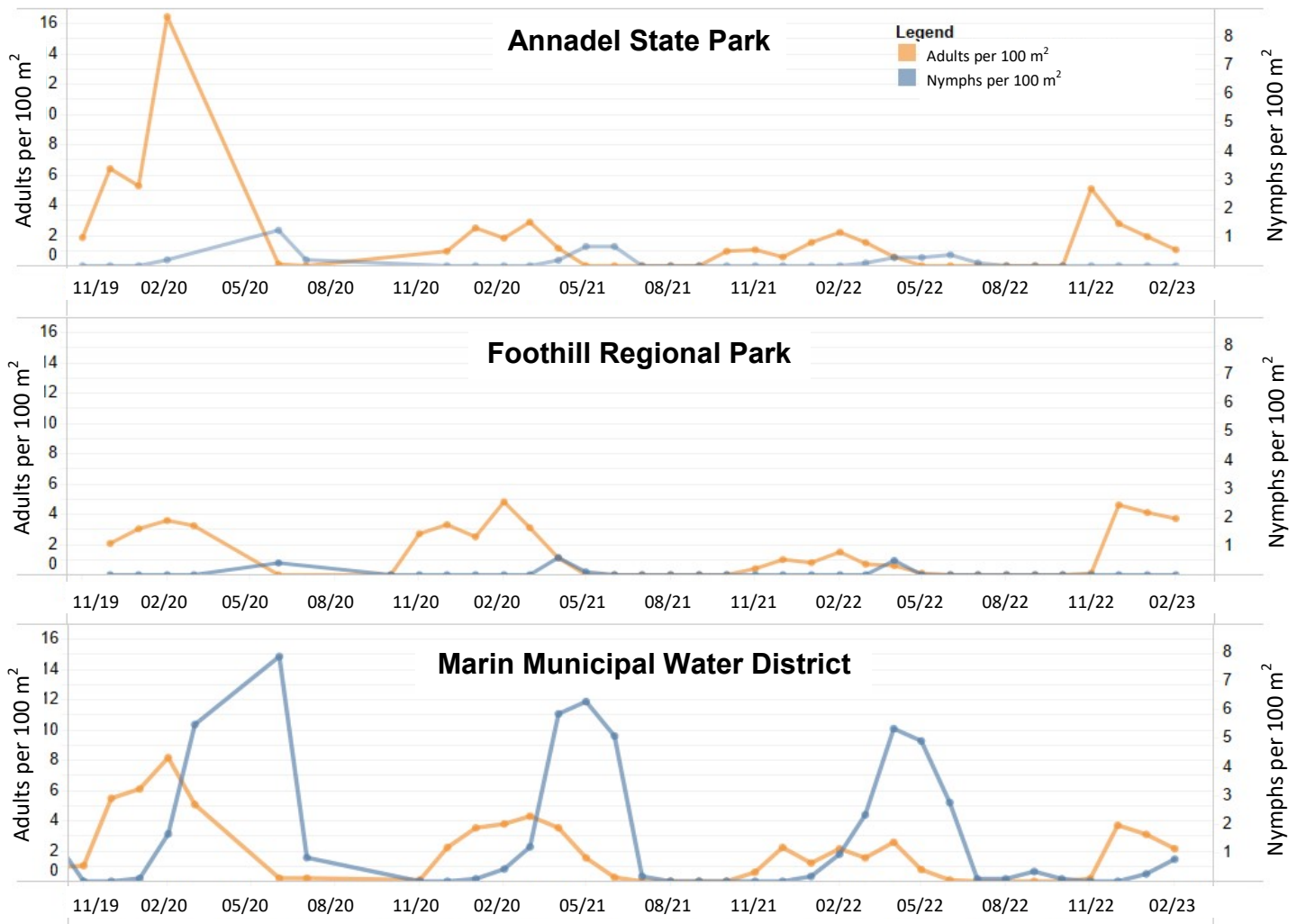


Laboratory Update

December 2022 - February 2023

Tick Surveillance

Every month, laboratory staff visit the Marin Municipal Water District (MMWD), Annadel State Park and Foothill Regional Park. During each visit, staff drag a 1 meter by 1 meter white flannel cloth on the same pre-defined trails. They stop every 15 steps to identify, count, and record the number of ticks on the flag. These ticks are then released back into the environment. This type of sampling, recommended by the Centers for Disease Control and Prevention, allows us to see trends in tick abundance over time. Below is the abundance of adult and nymphal *Ixodes pacificus* per 100 meters squared at each visit from November 2019 through February 2023.



Additional tick surveillance occurred from December 2022 through February 2023 at the Golden Gate National Rec Area and Tomales Bay State Park in Marin County, as well as Doran Regional Park and Sonoma Valley Regional Park in Sonoma County.



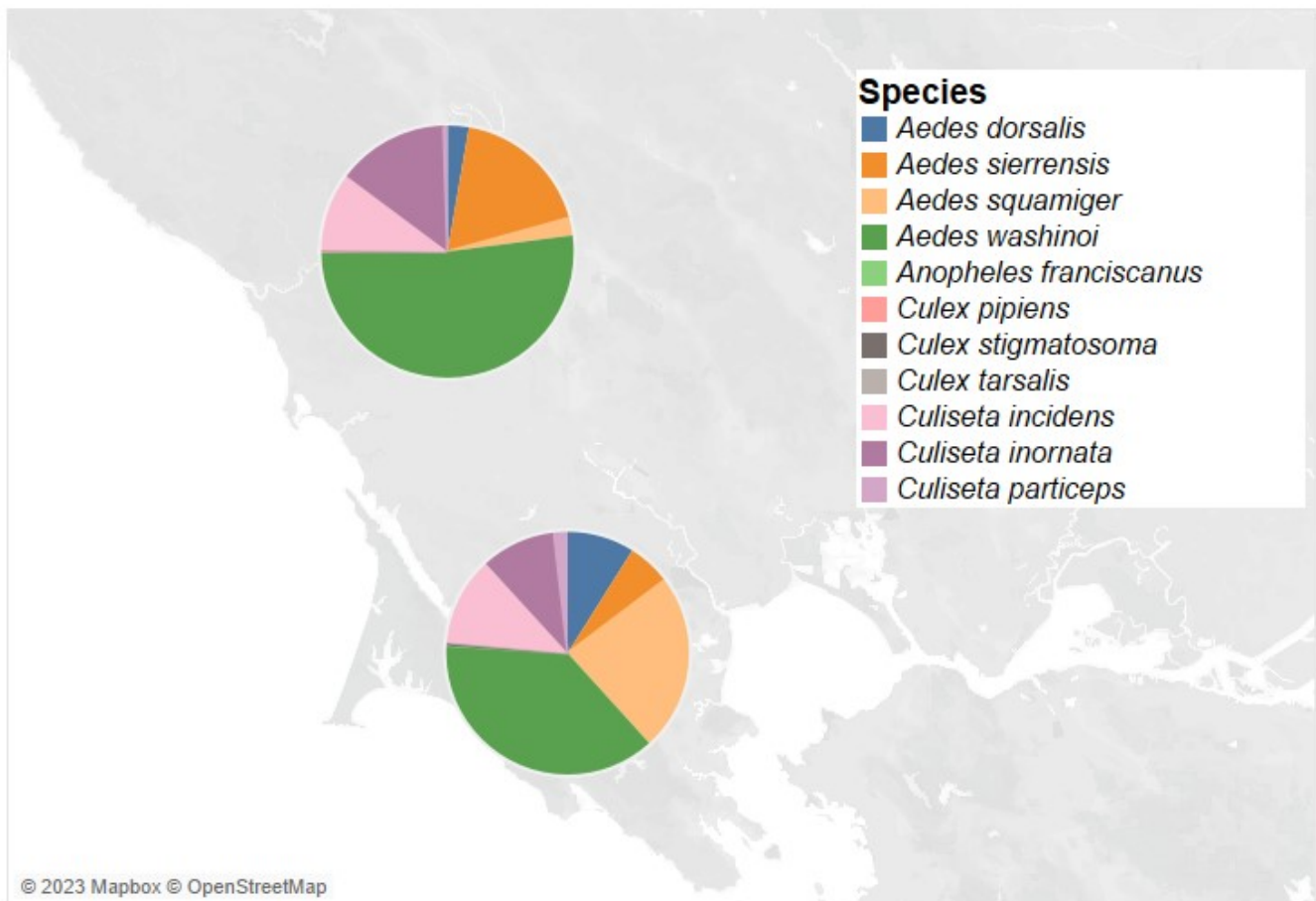
Laboratory Update

December 2022 - February 2023

Larval mosquitoes identified by lab staff

County	Total Samples	Total Larvae
Marin	380	7,152
Sonoma	461	7,917

Total Larvae by County December 2022 through February 2023





Laboratory Update

December 2022 - February 2023

Additional Lab Activities

- Biologist Kristen Holt and Lead Biologist (LB) Sarah Brooks continued their daily work of identifying mosquito samples, inputting data into databases, and interacting with technicians about sample results.
- Biologist Holt maintained *Culex pipiens* and *Aedes sierrensis* colonies for use in testing equipment and pesticide resistance. She has also continued to expand the *Culiseta incidens* colony used for the education program.
- The two environmental chambers that were purchased in September to replace the broken equipment will be shipping in early March.
- Biologist Holt completed tick testing for the 2022 collection year.
- LB Brooks continues to work on several projects in collaboration with other departments, including the use of new technology for identifying green pools.
- LB Brooks assisted with the annual National Pollutant Discharge Elimination System (NPDES) report for the district in January.
- SPM Liebman provided training to all staff on invasive *Aedes* mosquitoes and ticks of Marin and Sonoma counties.
- Due to significant weather events, tick surveillance has been sporadic this season. However, ticks have been present during surveillance events with significant winds, cold temperatures, and wet vegetation.
- Biologist Holt, LB Brooks and SPM Liebman participated in the quarterly Vector Borne Diseases Group meeting with other coastal region MVCAC biologists. SPM Liebman is now moderating these virtual meetings.
- SPM Liebman presented a talk entitled “Tick Surveillance in Marin and Sonoma Counties: Past, Present, and Future” at the 91st Annual Mosquito and Vector Control Association of California (MVCAC) conference in Anaheim, CA.
- SPM Liebman attended the MVCAC conference in Anaheim, participating as a member of the Reeve’s committee, judging both the Reeve’s New Investigator competition and the Walton Poster competition.

Marin/Sonoma

Mosquito and Vector Control

District



2022

Vector Surveillance Report

595 Helman Lane, Cotati, CA 94931

(707) 285 - 2200 | www.ms mosquito.org

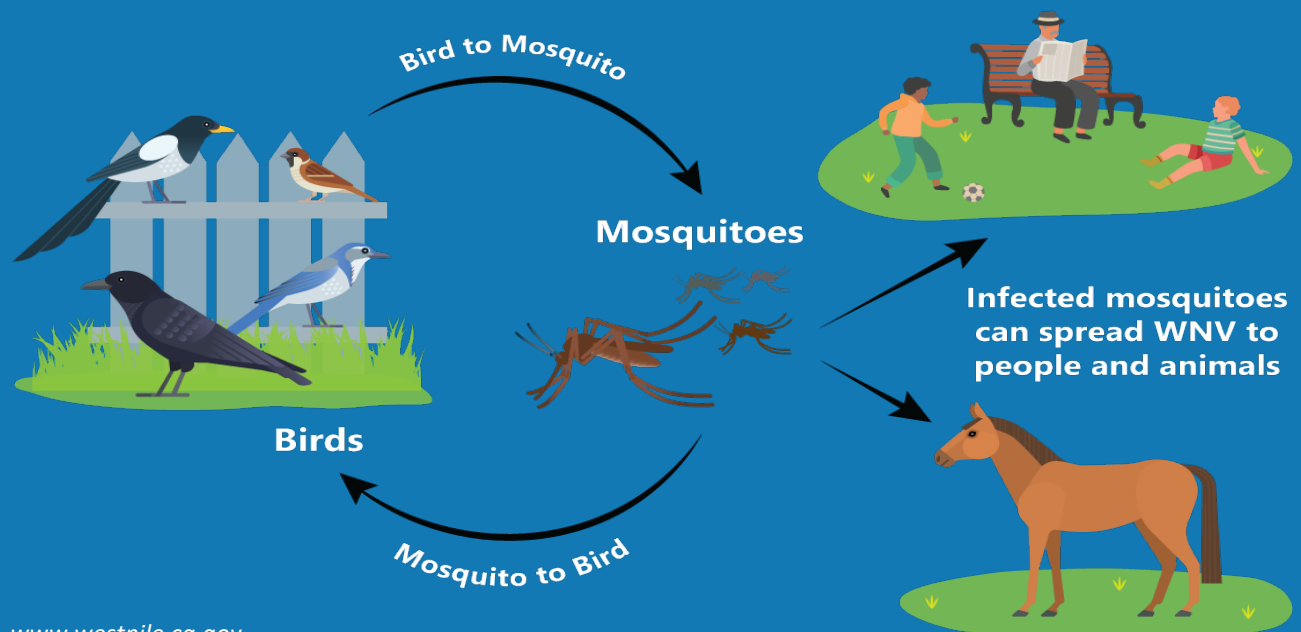
Laboratory Program Overview

Arbovirus Surveillance Program

The Marin/Sonoma Mosquito and Vector Control District (the District) maintains a multifaceted surveillance program for arboviruses, including West Nile virus (WNV), St. Louis encephalitis virus (SLEV), and western equine encephalitis virus (WEEV). The District utilizes active and passive surveillance techniques to detect and quantify the density of mosquito populations and the intensity of virus transmission in the region. This information is then used to predict areas of elevated disease risk and direct critical vector control interventions to effectively and efficiently protect human health.

Since 2014, the District has conducted enhanced invasive mosquito surveillance efforts. The invasive *Aedes aegypti* and *Aedes albopictus* species have spread throughout California, reaching closer to our county borders every year. These mosquitoes are aggressive daytime biters, and can make it virtually impossible to enjoy outdoor activities. They can also transmit diseases that our native mosquitoes cannot, making them a potential threat to public health. Neither species has been found in Marin or Sonoma county, but we need your help! Call if you're being bitten by any mosquitoes, and make sure to let us know if it's during the daytime!

West Nile Virus Transmission Cycle



www.westnile.ca.gov

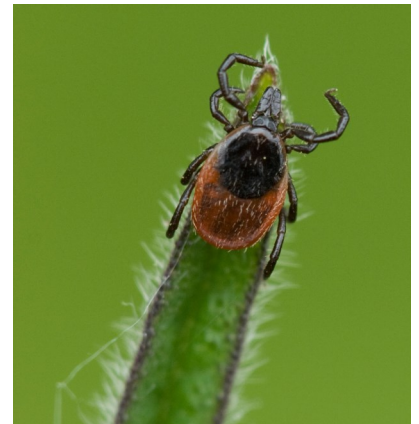
Laboratory Program Overview

Tick and Tick-Borne Disease

Surveillance Program

Throughout the year, District laboratory staff collect ticks of different species and life stages from trails in state, regional, and local parks and recreation areas around Marin and Sonoma counties. Ticks are collected by dragging a one meter square flannel flag on the ground and in the vegetation along trails. Collected specimens are identified and separated by species, sex, and life stages to be tested for pathogens when appropriate. The three main species collected by the District are *Dermacentor occidentalis* (the Pacific Coast tick), *Dermacentor variabilis* (the American dog tick), and *Ixodes pacificus* (the western black-legged tick).

Ixodes pacificus is the common tick species in the area that can transmit *Borrelia burgdorferi*, the bacterium that causes Lyme disease. Adults and nymphs of this species are tested for this pathogen, as well as *Borrelia miyamotoi*, which is a bacteria that causes a relapsing fever-type illness. This bacteria has been found in *I. pacificus* throughout the state, including in Marin and Sonoma counties. In 2022, California's first human case of disease linked to *B. miyamotoi* was identified in Marin County. *I. pacificus* also transmits the human pathogen *Anaplasma phagocytophilum*. In 2022, the District collaborated with the California Department of Public Health to test a subset of *I. pacificus* for this bacteria.



Ixodes pacificus female questing

***Borrelia miyamotoi* in Marin and Sonoma counties**

Borrelia miyamotoi is a bacterium transmitted by *Ixodes pacificus*, potentially causing a relapsing fever-type illness in humans. While evidence of this bacteria has been found in ticks and human blood, there had been no confirmed human cases of *B. miyamotoi* disease in California until 2022. Since 2016, the District has tested *Ixodes pacificus* for this bacterium. The minimum infection prevalence in Marin and Sonoma counties is 1.00% in adults and 1.12% in nymphs. Additional information about testing can be found on pages five through seven of this report. The first human case of disease caused by *B. miyamotoi* in California was identified in a Marin County resident in 2022. Laboratory staff collaborated with county, state, and federal health entities to conduct follow-up. Details will be published in an upcoming article in the Emerging Infectious Diseases journal.



Executive Summary

Arbovirus Surveillance Program

In 2022, 87 mosquito pools* from Marin County and 192 pools from Sonoma County were tested for WNV, SLEv, and WEEv. WNV was not detected in any mosquito pools in Sonoma or Marin County.

A total of 32 dead birds were reported, of which 23 were viable for WNV testing. One bird from Petaluma in Sonoma County tested positive for WNV. No birds submitted from Marin County tested positive.

One human case of WNV was identified in a resident of Sonoma County. Exposure likely occurred outside of the county.

*Female mosquitoes of the same species collected in the same trap are pooled by species (up to 50 per tube) to be tested for the presence of WNV, SLEv, and WEEv.

County	Species	# of Pools
Marin	<i>Culex erythrothorax</i>	47
	<i>Culex pipiens</i>	20
	<i>Culex stigmatosoma</i>	7
	<i>Culex tarsalis</i>	13
Sonoma	<i>Culex erythrothorax</i>	76
	<i>Culex pipiens</i>	39
	<i>Culex stigmatosoma</i>	38
	<i>Culex tarsalis</i>	39

Year	Humans	Dead Birds	Mosquito Pools*	Sentinel Chickens
2004	0	72	1	0
2005	1	92	0	0
2006	1	29	5	0
2007	1	23	1	0
2008	0	12	2	0
2009	0	N/A	0	0
2010	0	N/A	0	0
2011	0	N/A	2	0
2012	0	28	3	1
2013	2	46	5	3
2014	0	43	12	3
2015	1	14	12	0
2016	0	13	2	N/A
2017	0	6	1	N/A
2018	0	0	1	N/A
2019	0	0	0	N/A
2020	0	1	0	N/A
2021	0	1	2	N/A
2022	1	1	0	N/A

N/A indicates testing was not conducted

West Nile Virus Dead Bird Hotline

The California Department of Public Health runs a hotline that residents from any county in the state can call when they find a dead bird. If you find one, please let them know! When birds are the right species in the right conditions, the District can have them tested for WNV. Visit westnile.ca.gov for more info.



Executive Summary

Tick and Tick-Borne Disease Surveillance Program

In 2022, staff from the District visited nine parks in 37 sampling events, resulting in 1,302 adult *Ixodes pacificus* adults and 302 *I. pacificus* nymphs collected for testing. A multiplex real-time polymerase chain reaction (PCR) assay was used to test these ticks for two bacteria: *Borrelia burgdorferi* (the causative agent of Lyme disease) and *Borrelia miyamotoi* (a related bacterium that can cause a relapsing fever-type illness). Nymphal ticks were tested individually, while adult ticks were pooled by collection date, location, and sex. A maximum of five ticks were placed in each pool. In previous years, nymphal ticks were tested in pools as well. Therefore overall infection prevalences for both counties are presented below and on pages 6 and 7 as Minimum Infection Prevalence (MIP).

Minimum Infection Prevalence (MIP) = (number of positive tick pools/total ticks tested)*100

Ixodes pacificus testing for *Borrelia burgdorferi*: 2008 - 2022

County	Total Adults Tested	Minimum Infection Prevalence	Total Nymphs Tested	Minimum Infection Prevalence
Marin	7,378	2.01%	2,488	4.18%
Sonoma	9,026	1.56%	2,579	4.11%
Overall	16,406	1.76%	5,067	4.14%

Ixodes pacificus testing for *Borrelia miyamotoi*: 2016 - 2022

County	Total Adults Tested	Minimum Infection Prevalence	Total Nymphs Tested	Minimum Infection Prevalence
Marin	2,376	1.47%	878	1.03%
Sonoma	2,698	0.59%	736	1.22%
Overall	5,076	1.00%	1,614	1.12%

2022 Overview

Marin County: Thirteen pools of adults and four nymphs tested positive for *Borrelia burgdorferi*. Thirteen pools of adults and no nymphs tested positive for *Borrelia miyamotoi*.

Sonoma County: Three pools of adults and two nymphs tested positive for *Borrelia burgdorferi*. Four pools of adults and two nymphs tested positive for *Borrelia miyamotoi*.

Visit our website at www.msosquito.org/tick-surveillance for detailed information about cumulative tick collections at specific parks.



2022 Adult Tick Testing

Tick and Tick-Borne Disease Surveillance Program

County	Park/Trail	Adults Tested (Pools)	<i>Borrelia burgdorferi</i>			<i>Borrelia miyamotoi</i>		
			Pos. Pools	2022 MIP	2008-2022 MIP	Pos. Pools	2022 MIP	2016-2022 MIP
Marin	Golden Gate National Recreation Area	99 (27)	3	3.03%	2.94%	3	3.03%	2.94%
	Marincello Trail	21 (6)	0	0.00%	0.00%	2	9.52%	9.52%
	Miwok Trail [#]	28 (7)	1	3.57%	3.57%	0	0.00%	0.00%
	Oakwood Valley Trail [#]	39 (10)	2	5.13%	5.13%	1	2.56%	2.56%
	Rhubarb Trail [#]	11 (4)	0	0.00%	0.00%	0	0.00%	0.00%
	Marin Municipal Water District	68 (16)	2	2.94%	2.48%	2	2.94%	1.74%
	Alex Forman Trail	61 (14)	1	1.64%	2.60%	1	1.64%	1.20%
	Sunnyside Trail	7 (2)	1	14.29%	3.90%	1	14.29%	14.29%
	Mt. Burdell Open Space Preserve[#]	117 (27)	2	1.71%	1.71%	1	0.85%	0.85%
	Middle Burdell Fire Rd. [#]	36 (9)	0	0.00%	0.00%	0	0.00%	0.00%
	San Carlos Fire Rd. [#]	81 (18)	2	2.47%	2.47%	1	1.23%	1.23%
	White Hill Open Space Preserve[#]	493 (101)	6	1.22%	1.22%	7	1.42%	1.42%
	Sherwood Forest Fire Rd. [#]	49 (10)	0	0.00%	0.00%	0	0.00%	0.00%
	Unspecified Trail [#]	14 (3)	1	7.14%	7.14%	0	0.00%	0.00%
	White Hill Trail [#]	430 (88)	5	1.16%	1.16%	7	1.63%	1.63%
	Total	777 (171)	13	1.67%	2.01%	13	1.67%	1.47%
Sonoma	Foothill Regional Park	27 (8)	0	0.00%	0.97%	0	0.00%	0.66%
	Oakwood Trail	12 (3)	0	0.00%	1.02%	0	0.00%	0.00%
	Pond A Trail	12 (3)	0	0.00%	0.00%	0	0.00%	0.00%
	Three Lakes Trail	0 (0)	N/A	N/A	0.00%	N/A	N/A	0.00%
	Westside Trail	3 (2)	0	0.00%	1.82%	0	0.00%	0.00%
	Riverfront Regional Park	12 (6)	1	8.33%	8.57%	0	0.00%	0.00%
	Lake Trail	2 (2)	0	0.00%	0.00%	0	0.00%	0.00%
	Unspecified Trail	10 (4)	1	10.00%	10.00%	0	0.00%	0.00%
	Spring Lake Regional Park	237 (52)	1	0.42%	0.87%	4	1.69%	1.66%
	Nature Trail	237 (52)	1	0.42%	1.01%	4	1.69%	1.69%
	Stillwater Cove Regional Park[#]	112 (31)	0	0.00%	0.00%	0	0.00%	0.00%
	Beach Trail [#]	13 (6)	0	0.00%	0.00%	0	0.00%	0.00%
	Canyon Trail [#]	1 (1)	0	0.00%	0.00%	0	0.00%	0.00%
	Cove Trail [#]	1 (1)	0	0.00%	0.00%	0	0.00%	0.00%
	Stillwater Bluff Trail [#]	97 (23)	0	0.00%	0.00%	0	0.00%	0.00%
	Trione-Annadel State Park	137 (29)	1	0.73%	2.29%	0	0.00%	0.79%
	Lawndale Trail	125 (26)	0	0.00%	0.80%	0	0.00%	0.87%
	Richardson Trail	4 (1)	0	0.00%	0.00%	0	0.00%	0.00%
	Spring Creek Trail	8 (2)	1	12.5%	12.50%	0	0.00%	0.00%
	Steve's Trail [#]	0 (0)	N/A	N/A	N/A	N/A	N/A	N/A
Total	525 (126)	3	0.57%	1.56%	4	0.76%	0.59%	

Minimum Infection Prevalence (MIP) = (number of positive tick pools/total ticks tested)*100

[#] indicates site/trail not previously sampled



2022 Nymphal Tick Testing

Tick and Tick-Borne Disease

Surveillance Program

County	Park/Trail	Nymphs Tested	<i>Borrelia burgdorferi</i>			<i>Borrelia miyamotoi</i>		
			Pos. Ticks	2022 IP	2008-2022 MIP	Pos. Ticks	2022 IP	2016-2022 MIP
Marin	Golden Gate National Recreation Area	53	1	1.89%	1.75%	0	0.00%	0.00%
	Marincello Trail	0	N/A	N/A	N/A	N/A	N/A	N/A
	Miwok Trail [#]	0	N/A	N/A	N/A	N/A	N/A	N/A
	Oakwood Valley Trail [#]	53	1	1.89%	1.89%	0	0.00%	0.00%
	Rhubarb Trail [#]	0	N/A	N/A	N/A	N/A	N/A	N/A
	Marin Municipal Water District	66	3	4.55%	4.67%	0	0.00%	1.92%
	Alex Forman Trail	56	3	5.36%	3.98%	0	0.00%	2.20%
	Sunnyside Trail	10	0	0.00%	0.00%	0	0.00%	0.00%
	Mt. Burdell Open Space Preserve[#]	5	0	0.00%	0.00%	0	0.00%	0.00%
	Middle Burdell Fire Rd. [#]	3	0	0.00%	0.00%	0	0.00%	0.00%
	San Carlos Fire Rd. [#]	2	0	0.00%	0.00%	0	0.00%	0.00%
	White Hill Open Space Preserve[#]	56	0	0.00%	0.00%	0	0.00%	0.00%
	Sherwood Forest Fire Rd. [#]	0	N/A	N/A	0.00%	N/A	N/A	0.00%
	Unspecified Trail [#]	16	0	0.00%	0.00%	0	0.00%	0.00%
	White Hill Trail [#]	40	0	0.00%	0.00%	0	0.00%	0.00%
Total	180	4	2.22%	4.18%	0	0.00%	1.03%	
Sonoma	Foothill Regional Park	4	0	0.00%	1.28%	0	0.00%	3.51%
	Oakwood Trail	0	N/A	N/A	0.00%	N/A	N/A	N/A
	Pond A Trail	4	0	0.00%	0.00%	0	0.00%	0.00%
	Three Lakes Trail	0	N/A	N/A	0.00%	N/A	N/A	N/A
	Westside Trail	0	N/A	N/A	0.00%	N/A	N/A	N/A
	Riverfront Regional Park	6	0	0.00%	0.00%	0	0.00%	0.00%
	Lake Trail	0	N/A	N/A	N/A	N/A	N/A	N/A
	Unspecified Trail	6	0	0.00%	0.00%	0	0.00%	0.00%
	Spring Lake Regional Park	42	1	2.38%	2.91%	1	2.38%	2.27%
	Nature Trail	42	1	2.38%	2.17%	1	2.38%	2.38%
	Stillwater Cove Regional Park[#]	18	0	0.00%	0.00%	0	0.00%	0.00%
	Beach Trail [#]	1	0	0.00%	0.00%	0	0.00%	0.00%
	Canyon Trail [#]	17	0	0.00%	0.00%	0	0.00%	0.00%
	Cove Trail [#]	0	N/A	N/A	0.00%	N/A	N/A	0.00%
	Stillwater Bluff Trail [#]	0	N/A	N/A	0.00%	N/A	N/A	0.00%
	Trione-Annadel State Park	52	1	1.92%	6.19%	1	1.92%	2.13%
	Lawndale Trail	0	N/A	N/A	0.00%	N/A	N/A	N/A
	Richardson Trail	0	N/A	N/A	N/A	N/A	N/A	N/A
	Spring Creek Trail	49	1	2.04%	4.94%	1	2.04%	2.04%
	Steve's Trail [#]	3	0	0.00%	0.00%	0	0.00%	0.00%
Total	122	2	1.64%	4.11%	2	1.64%	1.22%	

Infection Prevalence (IP) = (number of positive ticks/total ticks tested)*100 Minimum Infection Prevalence (MIP) = (number of positive tick pools/total ticks tested)*100
[#] indicates site/trail not previously sampled



Tick Safety Tips

Tick and Tick-Borne Disease

Surveillance Program

Before entering tick habitat, take the following precautions

- Consider applying an effective tick repellent to exposed skin that has one of the following EPA-registered active ingredients: DEET, picaridin, IR3535, oil of lemon eucalyptus (OLE), or para-menthane-diol (PMD).
- Consider pretreating clothing/personal outdoor equipment with a product labeled for tick protection, such as permethrin.
- It is important to read repellent and permethrin product labels carefully before applying.
- Wear light-colored clothing (making it easier to spot ticks).
- Wear long pants, long sleeves, and long socks whenever possible. This makes it more difficult for ticks to get to your skin.

While in tick habitat

- Stay on trails. Adult ticks are typically more abundant on uphill sides of trails.
- Avoid contact with nymphal habitats, including leaf litter, downed logs, and tree trunks.
- Periodically check people and animals for ticks.

After exiting tick habitat

- Check people and animals for ticks, promptly removing any that might be on clothing or skin.
- Tumble dry clothes in a dryer on high heat for 10 minutes to kill ticks.
- Shower after coming indoors and carefully check for ticks.
- Properly remove any attached ticks immediately.

How to properly remove a tick

- Ideally, use tweezers to grasp the head of the tick as close to the skin as possible.
- Pull upward with steady, even pressure. DO NOT twist or jerk the tick; this can cause the mouthparts to break off and remain in the skin. If this happens, remove the mouthparts with tweezers. If you are unable to remove the mouthparts easily with clean tweezers, leave it alone and let the skin heal.
- After removing the tick, thoroughly clean the bite area and your hands with rubbing alcohol or soap and water.
- Never crush a tick with your fingers. Dispose of a live tick by putting it in alcohol, placing in a sealed bag/container, wrapping it tightly in tape, or flushing it down the toilet.
- If redness or pain develops at the tick site, consult your physician.

Manager's Report

- As the next step in the office space planning project, SOL Ecology will perform a wetlands delineation at the District's site on March 23rd. Subsequently SOL will summarize their findings in a document known as a Preliminary Jurisdictional Determination. This will help us determine the feasibility of various options for expanding and/or modifying the District's office and maintenance facilities. We will report back on the findings.
- The recruitment window closed for Seasonal receptionist and we hope to select the successful candidate soon because all indications are that the mosquito season will be very busy this year.
- Working with the staff at RGS, we launched the recruitment for the new Administrative Services position in the final week of February. RGS reports that some applications have been received already, with more expected by the closing date of March 21st.
- As of press time, the balance in District's OPEB trust account for retiree future medical benefits had fallen slightly to \$7.75M. Last year, the low point was \$7.3M. The pension prefunding trust (CEPPT) balance has also declined but is still in positive territory at \$1.72M.
- Last month, I participated in the Vector Control Joint Powers Agency (VCJPA) annual workshop and conference, held in person for the first time in three years. Trustee Davis is the current President of this risk-pooling agency, which supplies most of our insurance-type needs. I serve as an alternate member on the Board. Overall, the risk pooling agency is in sound financial condition, despite a \$300k decline in the value of its investments last fiscal year. Their net position is now \$8.03M, and although the insurance market is difficult, with rates rising and certain coverages hard to obtain, investments are showing signs of improvement and claims/losses are about average. Part of the reason for the decline is that when interest rates rise, some of the JPA's investments, such as bonds, become less desirable, causing their value to fall. A recent actuarial review of the JPA resulted in some adjustments to funding policies to ensure that the agency could pay claims that could occur once in 250 years, with a (conservative) 95% confidence level. Also, the Board decided that refunds to districts like ours from the annual retrospective adjustments based on claims experience will be reduced by 50% to retain more money at the JPA to build additional equity in the mid-layer investment pools.

- Last week we bade farewell to Vector Control Technician Dan Leslie, who retired after 22 years of service to the District. We thank Dan for his long service and wish him well in retirement.
- The Public Information Officer is preparing a newspaper insert of around 52,000 copies for release this spring in the following publications: Point Reyes Light, the Marinscope newspapers, The Bohemian, Healdsburg Tribune, Sonoma Index Tribune, Pacific Sun, and the Community Voice (Rohnert Park).
- We have entered into a three-year agreement for enhanced cybersecurity with Carbon Black. This provides 24/7 monitoring of all the District's computers for any indications of compromise. Technically known as endpoint threat detection and threat response, this system is monitored live by a team at DeepSeas LLC, who would shut down any affected equipment immediately and call District personnel.
- At the VCJPA conference, I was asked to speak on cybersecurity for Special Districts, including prudent prevention measures and what actions to take in the wake of a cyberattack. From the feedback, I learned that vector control district computer systems range from sophisticated setups with several hundred networked computers and field tablets to small districts that have some with four standalone computers that are not networked.

Assistant Manager's Report

- Operations staff will be performing yet another round of mosquito surveillance on seasonal wetlands, tidal marshes, and agricultural channels after the recent storm events. Increased water levels in these habitats may result in new hatches of several winter mosquito species.
- In February we applied mosquito larvicides to just under 285 acres of seasonal wetland, tidal marsh, and agricultural channels via UAS/drone.
- The District's Mechanic/Facilities Manager and I are working with vendors to address an issue with the HVAC system in the main building. We are also moving forward with plans to resurface the asphalt in the employee parking lot and yard.
- Operations staff and I are working to purchase capital items in the current budget. The new pressure washer unit was recently installed. We anticipate reduced maintenance costs and substantially less water and electricity use with the new unit. The new unit should also be more effective at cleaning equipment.

- Field Supervisor Jason Sequeira and I continue to meet with the City of Petaluma and consultants regarding mosquito source reduction, surveillance and control for a new floating solar array that will be constructed within an existing pond at the Ellis Creek Recycling Facility (ECWRF). We also met with City of Petaluma administrative staff including the new Executive Director of the ECWRF regarding mosquito surveillance and control at the facility as a whole.
- I continue to work with Diamondback Airboats on the construction of the District's airboat. We anticipate taking delivery at the end of March or early April.
- We anticipate taking delivery of two replacement environmental chambers to support operations in the laboratory insectary in mid-March.
- Field Supervisor Jason Sequeira and I are working on taking advantage of mosquito larvicide promotions to replenish stock at discounted rates.
- Biologist Kristen Holt harvested DNA from the Districts previously processed tick samples (2022) to provide to the California Department of Public Health for anaplasma phagocytophilum testing (bacterium that causes anaplasmosis).
- Staff continue to engage in safety training. For example, staff recently attended a workshop hosted by our Vector Control Joint Powers Agency and presented by the California Department of Fish and Wildlife on tips and best practices for encounters with Bears, Mountain Lions, and Coyotes. Encounters with wild pigs were also discussed.