



155 Mason Circle
Concord, CA 94520
phone (925) 685-9301
fax (925) 685-0266
www.contracostamosquito.com

***BOARD OF TRUSTEES
MEETING
MONDAY, MARCH 11, 2024***

TIME: 7:00 PM

LOCATION: Hybrid meeting of the Board of Trustees
Physically held at the District office located at
155 Mason Circle, Concord, CA 94520
By teleconference at:

<https://us06web.zoom.us/j/94095162206?pwd=amp0UXhCSEt3a0Qxc2ludWJnVmVmZz09>

Meeting ID: 940 9516 2206

Passcode: 866980

Trustee attending by teleconference/Alternate location: Darryl Young, at 1-chōme-2-7
Nishigahara 第二マルワビル 2 0 1, Kita City, Tokyo 114-0024, Japan

Members of the public may participate in the meeting via teleconference or in-person. Public comments may be submitted in advance of the meeting by emailing Paula Macedo at pmacedo@contracostamosquito.com. Alternatively, members of the public may offer spoken comments when public comment is requested, either at the beginning of the meeting as to non-agenda items, or regarding and agenda item at the time the item is considered. Comments shall be limited to three minutes per person, unless different time limits are set by the Chairperson.

In compliance with the Americans with Disabilities Act, if you need a disability-related modification or accommodation to participate in this meeting, please contact Paula Macedo, General Manager, as early as possible, and at least 48 hours before the meeting at (925) 457-8464 or pmacedo@contracostamosquito.com.

Protecting Public Health Since 1927

BOARD OF TRUSTEES

President **DARRYL YOUNG** Contra Costa County • Vice President **PETER PAY** San Ramon • Secretary **DANIEL PELLEGRINI** Martinez
Antioch **WADE FINLINSON** • Brentwood **VINOY MEREDDY** • Clayton **ERIC HINZEL** • Concord **PERRY CARLSTON** • Contra Costa County **JIM PINCKNEY & CHRIS COWEN**
Danville **RANDALL DIAMOND** • El Cerrito **JIM DOLGONAS** • Hercules **DAMIAN WONG** • Lafayette **Vacant** • Moraga **JAMES FRANKENFIELD** • Oakley **MICHAEL KRIEG**
Orinda **KEVIN MARKER** • Pinole **WARREN CLAYTON** • Pittsburg **RICHARD AINSLEY, PhD** • Pleasant Hill **JENNIFER HOGAN** • Richmond **CHRIS DUPIN** • San Pablo **Vacant** • Walnut Creek **PEGGIE HOWELL**

AGENDA

1. CALL TO ORDER

- Roll Call
- Pledge of Allegiance

2.* AGENDA MANAGEMENT

3. PUBLIC INPUT ON NON-AGENDA ITEMS

This time is reserved for members of the public to address the Board relative to matters of the District NOT on the agenda. No action may be taken on non-agenda items unless authorized by law. Public comments may be submitted as specified above and will be limited to three minutes per person.

4. PRESENTATION

- Trustee Pinckney for 35 years of service (December 06, 2023)
- Trustee Marker for 5 years of service (February 9, 2024)
- Peggie Howell, newly appointed Trustee representing the City of Walnut Creek.

5.* CONSENT CALENDAR

Any item may be pulled from the Consent Calendar and separately considered at the request of any Trustee. All items may be acted on by a single motion.

- A. Minutes of the January 8, 2024 and February 3, 2024 Board of Trustees Meetings
- B. Expenditures for December 2023 and January 2024
- C. Payroll Expenditures December 2023 and January 2024
- D. Investment Activity for December 2023 and January 2024
- E. Financial Report

6. INFORMATION ITEMS

- A. Annual Operations Report

7. BOARD AND STAFF REPORTS

- A. Board
- B. General Manager
- C. Staff
- D. Legal Counsel

8. BOARD COMMITTEE REPORTS

- A. Advance Planning Committee

9. CLOSING COMMENTS

This time is reserved for comments by Board members and/or staff and to identify matters for future Board business.

10. ADJOURNMENT

I hereby certify that the District Board of Trustee Agenda was posted 6 days before the noted meeting.

Christine Widger, Customer Service Specialist

Date

CONTRA COSTA MOSQUITO AND VECTOR CONTROL DISTRICT

MARCH 11, 2024 BOARD MEETING STAFF REPORT

1. No comment
- 2.* **AGENDA MANAGEMENT** – Consider order of items.
3. **PUBLIC INPUT ON NON-AGENDA ITEMS**
4. **PRESENTATION**
Trustee Pinckney for 35 years of service (December 06, 2023)
Trustee Marker for 5 years of service (February 9, 2024)
Peggie Howell, newly appointed Trustee representing the City of Walnut Creek.
- 5.* **CONSENT CALENDAR**
 - A. Minutes of the January 8, 2024 and February 3, 2024 Board of Trustees Meetings (**Pages 6-13**). Approval of Minutes 24-1, Board Meeting held on January 8, 2024 and 24-2, Board Meeting held on February 3, 2024.
 - B. Check Expenditures for payroll and accounts payable for December 2023 & January 2024 (**Pages 14-16**) – Approval of expenditures of December 1, 2023 through January 31, 2024, including:

Accounts payable December 15th checks No. 0XXX26 through No. 0XXX34
Payroll December 29th check No. 0XXX35
Accounts payable December 29th checks No. 0XXX36 through No. 0XXX45
Accounts payable January 12th checks No. 0XXX46 through No. 0XXX55
Payroll January 31st checks No. 0XXX56 through No. 0XXX58
Accounts payable January 31st checks No. 0XXX59 through No. 0XXX67

Accounts Payable Total: \$64,678.22 Payroll Total: \$369.40
 - C. Direct Deposit Expenditures for payroll and accounts payable – Approval of payroll expenditures of December 1, 2023 through January 31, 2024, including:

Payroll December 15th No. D000019739 through No. D000019770
Accounts payable December 15th EXXX35 through EXXX45
Payroll December 29th No. D000019771 through No. D000019807
Accounts payable December 29th EXXX46 through EXXX53
Payroll January 12th No. D000019808 through No. D000019847
Accounts payable January 12th EXXX54 through EXXX66
Payroll January 29th No. D000019848 through No. D000019892
Accounts payable January 31st EXXX67 through EXXX76

- D. Investment Activity for December 2023 and January 2024 (*Pages 17-25*)
- E. Financial Report (*Page 26-27*)

Recommendation – Approve the Consent Calendar.

6. INFORMATION ITEMS

- A. Annual Operations Report - The California Environmental Quality Act (CEQA), requires all state and local agencies in California to evaluate and publicly report on the potential environmental impacts of their discretionary activities and to mitigate those impacts which could be significantly adverse. In March 2016, in order to ensure the fullest possible compliance with CEQA, the District completed a full Programmatic Environmental Impact Report (PEIR) which includes a comprehensive review of all District practices and policies, potential environmental impacts, and mitigation measures used to minimize or eliminate potential impacts. Although CEQA regulations do not mandate annual updates unless there are significant changes in our program, District Staff continues to produce an annual Operations Report summarizing District activities. Scientific Programs Manager Schutz will present the Annual Operations Report (*Pages 28-41*).

7. BOARD AND STAFF REPORTS

- A. Board
- B. General Manager
- C. Staff – staff reports have been submitted and staff will be present to answer any questions (*Pages 42-59*).
- D. Legal Counsel

8. BOARD COMMITTEE REPORTS

- A. Advance Planning Committee – the Advance Planning Committee meeting scheduled for February 12, 2024 was canceled and will be rescheduled at a later date.

9. CLOSING COMMENTS

This time is reserved for comments by Board members and/or staff and to identify matters for future Board business.

10. ADJOURNMENT

CONTRA COSTA MOSQUITO AND VECTOR CONTROL DISTRICT
BOARD MEETING
MINUTES NO. 24-1

A meeting of the Board of Trustees of the Contra Costa Mosquito and Vector Control District was held on Monday, January 8, 2024, at the District office at 155 Mason Circle, Concord, CA 94520.

TRUSTEES PRESENT Darryl Young, President, Contra Costa County
Peter Pay, Vice President, San Ramon
Daniel Pellegrini, Secretary, Martinez
Richard Ainsley, Pittsburg
Perry Carlston, Concord
Warren Clayton, Pinole
Chris Cowen, Contra Costa County
Randall Diamond, Danville
Jim Dolgonas, El Cerrito
Chris Dupin, Richmond
Wade Finlinson, Antioch
James Frankenfield, Moraga
Eric Hinzl, Clayton
Jennifer Hogan, Pleasant Hill
Michael Krieg, Oakley
Kevin Marker, Orinda
Vinoy Mereddy, Brentwood
Damian Wong, Hercules

TRUSTEES ABSENT James Pinckney, Contra Costa County

VACANCIES Lafayette
San Pablo
Walnut Creek

OTHERS PRESENT Paula Macedo, General Manager; Stacy Stark, Human Resources &
Risk Manager; Natalie Martini, Financial Administrator; Wayne
Shieh, IT Systems Administrator; Christine Widger, Customer
Service Specialist;
Doug Coty, Bartkiewicz, Kronick & Shanahan, Legal Counsel
(remote)
David Alvey, CPA, Maze and Associates (remote)

1. **CALL TO ORDER** - President Young called the meeting to order at 7:02 p.m.

Roll Call: A roll call indicated that 18 Trustees were present, one Trustee was absent, and there are three vacancies.

Pledge of Allegiance

- 2.* **AGENDA MANAGEMENT** – The agenda was adopted by rule.

3. **PUBLIC INPUT ON NON-AGENDA ITEMS** – None

4. **PRESENTATION** - Eric Hinzel, newly appointed Trustee representing the City of Clayton. President Young introduced Trustee Hinzel to the Board. Trustee Hinzel spoke to the Board about his educational background, his professional experience, and his interest to be part of the Board.

Trustee Pinckney was absent and his presentation for 35 years of service to the Board of Trustees was postponed. Trustee Cowen was recognized for 15 years of service to the Board, representing Contra Costa County.

- 5.* **CONSENT CALENDAR**

A. Minutes - Approval of Minutes 23-7, Board Meeting held on November 13, 2023.

B. Check Expenditures for payroll & accounts payable for October & November
Approval of expenditures of October 1, 2023 through November 30, 2023, including:

Payroll October 8th check No. XXXX80

Accounts payable October 13th checks No. XXXX81 through No. XXXX86

Payroll October 13th check No. XXXX87

Accounts payable October 31st checks No. XXXX88 through No. XXXX98

Accounts payable November 15th checks No. XXXX99 through No. XXXX09

Payroll November 30th check No. XXXX10 through XXXX13

Accounts payable November 30th checks No. XXXX10 through No. XXXX13

Accounts Payable Total: \$62,024.19 Payroll Total: \$461.75

C. Direct Deposit Expenditures for payroll & accounts payable – Approval of payroll expenditures of October 1, 2023 through November 30, 2023, including:

Payroll October 13th No. D000019598 through No. D000019630

Payroll October 31st No. D000019631 through No. D000019664

Accounts payable October 13th E000003089 through E000003097

Accounts payable October 31st E000003098 through E000003111

Payroll November 15th No. D000019665 through No. D000019695

Payroll November 30th No. D000019696 through No. D000019738

Accounts payable November 15th E000003112 through E000003124

Accounts payable November 30th E000003125 through E000003134

Accounts Payable Total: \$259,769.94 Payroll Total: \$359,409.62

D. Investment Activity for October & November 2023

E. Financial Report

** Motion was made by Trustee Pellegrini and seconded by Trustee Ainsley to approve the consent calendar. *Motion passed unanimously.*

6. BOARD AND STAFF REPORTS

- A. BOARD – Trustee Marker announced that former Trustee Fitzsimmons has passed away. The Board spoke highly of his years of service and dedication to the District.
- B. GENERAL MANAGER – General Macedo noted that the Trustees attending the Annual Conference of the Mosquito and Vector Control Association of California (MVCAC) would receive an email from her regarding travel and reimbursements. General Manager Macedo reminded the Trustees that the 2024 Trustee workshop will take place as a special meeting on February 3 from 9 am to 3 pm, at the Sonesta Select Hotel on Contra Costa Boulevard in Pleasant Hill, and asked Trustees to let her know if there are dietary restrictions to consider as food arrangements would be made soon.
- C. LEGAL – None

7.* BOARD COMMITTEE REPORTS

- A. Advance Planning Committee Report – Trustee Pay, Chair of the Advance Planning Committee, noted that the committee had a meeting scheduled for December 4, 2023, which was cancelled due to lack of quorum. The meeting has been rescheduled for February 12, 2024. He asked committee members to make sure they are available on that day and to let the General Manager know as soon as possible if they are unable to attend.
- B.* Audit Committee Report – Trustee Krieg, Chair of the Audit Committee, noted that the committee met on December 12, 2023 to review the draft Audit for FY 22/23, presented by David Alvey, from Maze & Associates. The committee recommended the final FY22/23 Annual Financial Audit for Board approval.
 - i.* District FY 22/23 Financial Audit and Memorandum on Internal Control – Audit Committee Chair Trustee Krieg, and David Alvey, from Maze & Associates, discussed the Fiscal Year 22/23 annual financial audit that is enclosed with this Board packet.

David Alvey, from Maze & Associates, reported that the District received an unmodified opinion for this audit; which is the cleanest opinion available.

As reported on the Current Year Financial Highlights, the District fiscal year 2022/2023 total current assets increased 17.2% from fiscal year 2021/2022. The majority of this \$2,492,684 increase was due to the growing assessed value of properties in Contra Costa County, and prudent fiscal management. District general fund revenues were \$1,162,807 over the amount budgeted for fiscal year 2022/2023, primarily due to the increase in property taxes. The District

expenditures were \$1,044,577 less than the budgeted amount for fiscal year 2022/2023 due to savings in the areas of employee salaries, professional services, and delayed building maintenance.

The District has continued to contribute to an irrevocable trust for Other Post-Employment Benefits (OPEB), designed to cover medical costs for retirees of the District. Per actuarially determined requirements, the District contributed \$215,000 to the PARS 115 trust in fiscal year 2022/2023 and did not take a distribution. The fund's net position increased by \$489,024 in fiscal year 2022/2023, and had a balance of \$3,602,268 at June 30, 2023. The District's net OPEB liability was \$871,085, and the net position as a percentage of the total OPEB liability increased to 80.53%.

The total net pension liability of the District at December 31, 2022, was \$3,952,156, with the District being 56.55% funded at that point in time. This amount is determined by the Contra Costa County Employees Retirement Association Act 37 retirement plan.

General Manager Macedo complimented the Financial Administrator on the work she has done in her first year as Financial Administrator.

** Motion was made by Trustee Pellegrini and seconded by Trustee Diamond to approve the District Fiscal Year 2022/2023 Financial Audit and Memorandum on Internal Control. *Motion passed unanimously.*

8.* BOARD NOMINATION AND ELECTION OF 2024 OFFICERS FOR BOARD PRESIDENT, VICE PRESIDENT, AND SECRETARY – Trustee Carlston nominated President Young for re-election as President, Vice President Pay for re-election as Vice President, and Secretary Pellegrini for re-election as Secretary. No other nominations were made by the Board.

** Motion was made by Trustee Krieg and seconded by Trustee Diamond to elect Trustee Young as 2024 Board President, Trustee Pay as 2024 Vice President, and Trustee Pellegrini as 2024 Board Secretary. *Motion passed unanimously.*

9.* BOARD CONSIDERATION AND APPROVAL OF COMMITTEE CHARGES FOR 2024 – Standing Committee charges for 2024 were presented to the Board for approval.

** Motion was made by Trustee Pellegrini and seconded by Trustee Clayton to approve the committee charges for 2024. *Motion passed unanimously.*

** A motion was made by President Young and seconded by Trustee Pay to recess at 7:32 p.m. in order to allow Trustees to sign up for 2024 committees. *Motion passed unanimously.*

** The recess ended and President Young called the meeting to order at 7:38 p.m.

10.* **BOARD CONSIDERATION AND APPROVAL OF 2024 COMMITTEE MEMBERS**

– Trustees signed up for different committees and the President Young reviewed the committee sign up sheet, recommending the following:

Advance Planning Committee – Chair Trustee Hogan, with Trustees Ainsley, Dupin, Finlinson, Hinzl, Mereddy and Pay

Audit Committee – Chair Trustee Dolgonas, with Trustees Carlston, Krieg, Pellegrini, and Wong

Budget Committee – Chair Trustee Marker, with Trustees Ainsley, Cowen, Dupin, Frankenfield, and Mereddy

Executive Committee – Chair President Young, with Trustees Krieg, Marker, Pay and Pellegrini

Personnel Committee – Chair Trustee Pay, with Trustees Ainsley, Carlston, Clayton, Cowen, Diamond and Pellegrini

** Motion was made by Trustee Pellegrini and seconded by Trustee Cowen to approve the 2024 committees as presented by President Young. *Motion passed unanimously.*

11.* **2024 BOARD MEETING SCHEDULE** – General Manager Macedo requested an amendment the proposed 2024 calendar, noting that the Board meeting of November 12, 2024 will be held on a Tuesday, the next business day after a holiday on which the regular Board meeting would have been scheduled.

** Motion was made by Trustee Diamond and seconded by Trustee Cowen to approve the 2024 Board meeting schedule as amended to note that November 12 is a Tuesday. *Motion passed unanimously.*

12.* **BOARD CONSIDERATION AND APPROVAL OF COST SHARING AGREEMENT FOR ADDENDUM TO THE PROGRAMMATIC ENVIRONMENTAL IMPACT REPORT**

– The coastal region districts are working with the contractor that will be writing the addendum to each district’s Programmatic Environmental Impact Report (PEIR) and the cost will be shared among the districts as stated in the agreement. Agreement has been reviewed by each district’s legal counsel. Amount is slightly above the General Manager’s authority; therefore, authorization is requested.

** Motion was made by Trustee Pellegrini and seconded by Trustee Clayton to approve the Cost Sharing Agreement for Addendum to the Programmatic Environmental Impact Report *Motion passed unanimously.*

13.* **BOARD CONSIDERATION AND APPROVAL OF RESOLUTION 24-1 – RECOGNITION AND PROFOUND APPRECIATION OF 35 YEARS OF SERVICE ON THE BOARD OF TRUSTEES**

–The Board enthusiastically agreed to recognize Trustee Pinckney’s 35 years of service with a Resolution.

** Motion was made by Trustee Pellegrini and seconded by Trustee Krieg to approve Resolution 24-1, Recognition and Profound Appreciation of 35 Years of Service of Trustee Pinckney on the Board of Trustees. *Motion passed unanimously.*

14. **CLOSING COMMENTS** - None

15. **ADJOURNMENT** – 7:54 p.m.

I certify the above minutes were approved as read or corrected at the meeting of the Board held on March 11, 2024.

Ayes: _____

Noes: _____

Abstain: _____

Absent: _____

Daniel Pellegrini
2024 Secretary, Board of Trustees

CONTRA COSTA MOSQUITO AND VECTOR CONTROL DISTRICT
TRUSTEE WORKSHOP
MINUTES NO. 24-2

A Trustee Workshop of the Board of Trustees of the Contra Costa Mosquito and Vector Control District was held on Saturday, February 3, 2024, at the Sonesta Select Hotel at 2250 Contra Costa Blvd., Pleasant Hill, CA 94523.

TRUSTEES PRESENT Peter Pay, Vice President, San Ramon
Daniel Pellegrini, Secretary, Martinez
Richard Ainsley, Pittsburg
Perry Carlston, Concord
Jim Dolgonas, El Cerrito
Chris Dupin, Richmond
Wade Finlinson, Antioch
James Frankenfield, Moraga
Eric Hinzal, Clayton
Jennifer Hogan, Pleasant Hill
Michael Krieg, Oakley
Kevin Marker, Orinda
Vinoy Mereddy, Brentwood

TRUSTEES ABSENT Warren Clayton, Pinole
Chris Cowen, Contra Costa County
Randall Diamond, Danville
James Pinckney, Contra Costa County
Damian Wong, Hercules
Darryl Young, President, Contra Costa County

VACANCIES Lafayette
San Pablo
Walnut Creek

OTHERS PRESENT Paula Macedo, General Manager; Stacy Stark, Human Resources
and Administration Manager; Christine Widger, Customer Service
Specialist
Chris Sliz and MJ Brown, Regional Government Services

1. **CALL TO ORDER** – Vice President Pay called the meeting to order at 9:06 a.m.

Roll Call: A roll call indicated that thirteen Trustees were present, six Trustees were absent, and there are three vacancies.

Pledge of Allegiance

2. **PUBLIC INPUT ON NON-AGENDA ITEMS** – None

3. **2024 TRUSTEE WORKSHOP** – Chris Sliz and MJ Brown, from Regional Government Services facilitated this session. Materials provided are enclosed.

4. **ADJOURNMENT** – The meeting adjourned at 2:56 p.m.

I certify the above minutes were approved as read or corrected at a meeting of the Board held on March 11, 2024.

Ayes: _____
Noes: _____
Abstain: _____
Absent: _____

Daniel Pellegrini
2024 Secretary, Board of Trustees

Check History Report
Sorted By Check Number
Activity From: 12/1/2023 to 1/31/2024

CONTRA COSTA MOSQUITO AND VECTOR CONTROL DISTRICT (CCV)

Check Number	Check Date	Name	Check Amount
0XXX26	12/15/2023	Diablo Trophies & Awards	120.18
0XXX27	12/15/2023	PG&E	1,426.17
0XXX28	12/15/2023	Empower Trust Company, LLC	4,000.00
0XXX29	12/15/2023	US POSTAL SERVICE CMRS-FP	1,000.00
0XXX30	12/15/2023	Staples Business Advantage	371.23
0XXX31	12/15/2023	Reliance Standard Life In	1,348.63
0XXX32	12/15/2023	MVCAC	8,015.00
0XXX33	12/15/2023	WAVE	2,358.58
0XXX34	12/15/2023	Banksia Landscape, Inc.	513.00
0XXX36	12/29/2023	Vision Service Plan	584.40
0XXX37	12/29/2023	PG&E	1,143.39
0XXX38	12/29/2023	Maze & Associates	2,530.00
0XXX39	12/29/2023	Staples Business Advantage	71.69
0XXX40	12/29/2023	Sun Life Financial	1,532.08
0XXX41	12/29/2023	Reliance Standard Life In	1,256.40
0XXX42	12/29/2023	Colonial Life	431.58
0XXX43	12/29/2023	Verizon Wireless	1,671.92
0XXX44	12/29/2023	Canon Financial Services, Inc.	381.26
0XXX45	12/29/2023	Capital Program Management, Inc. (CPM)	1,741.00
0XXX46	1/12/2024	Contra Costa Water District	489.96
0XXX47	1/12/2024	PG&E	1,368.42
0XXX48	1/12/2024	Empower Trust Company, LLC	4,000.00
0XXX49	1/12/2024	Contra Costa County - Fleet	8,388.81
0XXX50	1/12/2024	Associated Business Machi	219.00
0XXX51	1/12/2024	Staples Business Advantage	302.96
0XXX52	1/12/2024	Quenvold's Safety Shoemobile	208.67
0XXX53	1/12/2024	Ramos Environmental	3,520.71
0XXX54	1/12/2024	WAVE	2,358.58
0XXX55	1/12/2024	Banksia Landscape, Inc.	534.00
0XXX59	1/31/2024	Vision Service Plan	584.40
0XXX60	1/31/2024	PG&E	1,672.70
0XXX61	1/31/2024	Empower Trust Company, LLC	2,000.00
0XXX62	1/31/2024	Sun Life Financial	1,518.82
0XXX63	1/31/2024	Kings III of America, Inc.	174.00
0XXX64	1/31/2024	Colonial Life	431.58
0XXX65	1/31/2024	Verizon Wireless	1,667.66
0XXX66	1/31/2024	Canon Financial Services, Inc.	341.49
0XXX67	1/31/2024	Capital Program Management, Inc. (CPM)	4,399.95
EXXX35	12/15/2023	Health Care Dental Trust	4,702.22
EXXX36	12/15/2023	Concur Technologies, Inc	677.71
EXXX37	12/15/2023	California Special Districts Association	747.77
EXXX38	12/15/2023	Bay Alarm Company	85.00
EXXX39	12/15/2023	ADAPCO, Inc.	28,844.36
EXXX40	12/15/2023	Mission Linen Supply	237.98
EXXX41	12/15/2023	AFLAC	52.84
EXXX42	12/15/2023	iSolved Benefit Services	107.78
EXXX43	12/15/2023	Streamline	375.00
EXXX44	12/15/2023	Great-West Trust Company, LLC (Empower)	9,934.20
EXXX45	12/15/2023	Mt. Diablo Resource Recovery-Concord	715.95
EXXX46	12/29/2023	SEIU UPE LOCAL 1021-Union Dues	2,594.24
EXXX47	12/29/2023	CalPERS	65,594.24
EXXX48	12/29/2023	Mission Linen Supply	527.61
EXXX49	12/29/2023	CDW Government, Inc.	240.09
EXXX50	12/29/2023	Bartkiewics, Kronick & Shanahan	1,275.00

Check History Report
Sorted By Check Number
Activity From: 12/1/2023 to 1/31/2024

CONTRA COSTA MOSQUITO AND VECTOR CONTROL DISTRICT (CCV)

Check Number	Check Date	Name	Check Amount
EXXX51	12/29/2023	Contra Costa Janitorial Services	1,300.00
EXXX52	12/29/2023	Great-West Trust Company, LLC (Empower)	9,949.03
EXXX53	12/29/2023	U.S. BANK CORPORATE PAYMENT SYSTEMS	9,062.43
EXXX54	1/12/2024	Concur Technologies, Inc	677.71
EXXX55	1/12/2024	California Special Districts Association	417.77
EXXX56	1/12/2024	Bay Alarm Company	2,995.60
EXXX57	1/12/2024	Liebert Cassidy Whitmore	2,473.50
EXXX58	1/12/2024	Mission Linen Supply	472.23
EXXX59	1/12/2024	AFLAC	52.84
EXXX60	1/12/2024	iSolved Benefit Services	107.78
EXXX61	1/12/2024	Quench USA, Inc.	231.34
EXXX62	1/12/2024	Bartkiewics, Kronick & Shanahan	1,584.71
EXXX63	1/12/2024	Streamline	375.00
EXXX64	1/12/2024	Contra Costa Janitorial Services	1,300.00
EXXX65	1/12/2024	Great-West Trust Company, LLC (Empower)	9,361.38
EXXX66	1/12/2024	Mt. Diablo Resource Recovery-Concord	715.95
EXXX67	1/31/2024	SEIU UPE LOCAL 1021-Union Dues	2,293.50
EXXX68	1/31/2024	CalPERS	64,979.43
EXXX69	1/31/2024	Health Care Dental Trust	4,728.10
EXXX70	1/31/2024	ADAPCO, Inc.	20,715.67
EXXX71	1/31/2024	Liebert Cassidy Whitmore	2,770.00
EXXX72	1/31/2024	Mission Linen Supply	861.25
EXXX73	1/31/2024	AFLAC	52.84
EXXX74	1/31/2024	Quench USA, Inc.	231.34
EXXX75	1/31/2024	Great-West Trust Company, LLC (Empower)	8,909.56
EXXX76	1/31/2024	U.S. BANK CORPORATE PAYMENT SYSTEMS	10,519.78
Bank 5 Total:			<u>338,528.95</u>
Report Total:			<u><u>338,528.95</u></u>

CONTRA COSTA MOSQUITO & VECTOR CONTROL DISTRICT
UNUSUAL ITEMS LIST (*New Policy Effective May 2021*)

- *Any checks or ACH over the amount of \$10,000.00 (excludes Procurement Policy General Manager Authority items: payroll taxes, employee fringe benefit payments, and aggregate corporate credit card amount).*
- *Any vendor that has not been paid by the District in the past 15 months.*
- *All legal fees over \$5,000.00 in one month*

DATE	CHECK #	AMOUNT OF CHECK	VENDOR & DESCRIPTION
December 15, 2023	EXXXX39	\$28,844.36	ADAPCO – Control Materials Mosquito Larviciding
December 29, 2023	XXXX45	\$1,741.00	Capital Program Management, Inc. (CPM) – Construction Management Consulting
January 12, 2024	XXXXX50	\$219.00	Associated Business Machines – Postage Meter Supplies
January 12, 2024	XXXXX52	\$208.67	Quenvold’s Safety Shoemobile – Safety Boots
January 31, 2024	EXXXX70	\$20,715.67	ADAPCO – Heavy Equipment/A-1 Super Duty Sprayer

INVESTMENT ACTIVITY REPORT

Month of December 2023						
Transaction Number	Date	Wells Fargo	LAIF	California CLASS	Five Star Money Market	Five Star Checking
Balance	12/1/2023	\$ 121,719.10	\$ 9,093,669.11	\$ 1,003,799.02	\$ 925,958.79	\$ 593,674.04
1	12/12/2023		(217,000.00)			217,000.00
2	12/15/2024					17,171.48
3	12/19/2024					4,691,753.95
4	12/29/2023	1.04		4,724.50	2,978.60	
5	12/31/2023					(488,399.92)
Balance		\$ 121,720.14	\$ 8,876,669.11	\$ 1,008,523.52	\$ 928,937.39	\$ 5,031,199.55

Transaction Number & Brief Description

- 1 Transfer from LAIF to Five Star Checking for Payroll & Vendor Checks
- 2 Misc Deposits into Five Star Checking
- 3 Property Tax Deposits into Five Star Checking
- 4 Interest Earned Wells Fargo, California CLASS & Five Star Money Market Accounts
- 5 Five Star Bank clearing of checks for Payroll & Vendor Checks

Month of January 2024						
Transaction Number	Date	Wells Fargo	LAIF	California CLASS	Five Star Money Market	Five Star Checking
Balance	1/1/2024	\$ 121,720.14	\$ 8,876,669.11	\$ 1,008,523.52	\$ 928,937.39	\$ 5,031,199.55
1	1/2/2024					22,526.00
2	1/11/2024					438,995.34
3	1/12/2024		94,443.97			
4	1/26/2024					6,948.92
5	1/30/2023					(518,917.51)
6	1/31/2024	1.03		4,696.03	3,087.27	
Balance		\$ 121,721.17	\$ 8,971,113.08	\$ 1,013,219.55	\$ 932,024.66	\$ 4,980,752.30

Transaction Number & Brief Description

- 1 Misc Deposits into Five Star Checking
- 2 Redevelopment Property Tax Deposits into Five Star Checking
- 3 Quarterly Interest Earned LAIF
- 4 Misc Deposits into Five Star Checking
- 5 Five Star Checking clearing of checks for Payroll & Accounts Payable
- 6 Interest Earned Wells Fargo, California CLASS & Five Star Money Market Accounts

Designated Reserves POLICY FY 24 (July 2023 - June 2024)	
Bond Reserve	0
Public Health Emergency	2,500,000
Capital Improvement	5,000,000
Emergency Reconstruction Response	500,000
Operations	4,981,330
Vehicle & Equipment Replacement	250,000
IT Equipment Replacement	250,000
	13,481,330

I certify that this report reflects all cash transactions and is in conformity with District Policy. The cash flow shown provides sufficient cash flow liquidity to meet the next six months expenditures.

Respectfully submitted,

*Paula Macedo
General Manager*

California State Treasurer *Fiona Ma, CPA*



Local Agency Investment Fund
P.O. Box 942809
Sacramento, CA 94209-0001
(916) 653-3001

January 25, 2024

[LAIF Home](#)
[PMIA Average Monthly Yields](#)

CONTRA COSTA MOSQUITO AND VECTOR CONTROL
DISTRICT
MANAGER
155 MASON CIRCLE
CONCORD, CA 94520

[Tran Type Definitions](#)

December 2023 Statement

Effective Date	Transaction Date	Tran Type	Confirm Number	Web Confirm Number	Authorized Caller	Amount
12/12/2023	12/12/2023	RW	1743768	1704176	PAULA MACEDO	-217,000.00

Account Summary

Total Deposit:	0.00	Beginning Balance:	9,093,669.11
Total Withdrawal:	-217,000.00	Ending Balance:	8,876,669.11



FIVE STAR BANK

PO Box 779000
Rocklin CA 95677

(800) 416-6117
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1628984
Contra Costa Mosquito & Vector Control
155 Mason Circle
Concord CA 94520

Date 12/31/23 Page 1
Enclosures

Public Money Market		Number of Enclosures	0
Account Number		Statement Dates	12/01/23 thru 12/31/23
Previous Balance	925,958.79	Average Ledger	925,958.79
Deposits/Credits	.00	Average Collected	925,958.79
Checks/Debits	.00	Annual Percentage Yield Earned	3.85%
Service Charge	.00	2023 Interest Paid	18,937.39
Current Balance	928,937.39	Interest Paid	2,978.60

Deposits and Additions

Date	Description	Amount
12/31	Interest Deposit	2,978.60

Daily Balance Information

Date	Balance		
12/01	925,958.79	12/31	928,937.39

Interest Rate Summary

Date	Rate
11/30	3.670000%
12/12	3.843000%





**Contra Costa Mosquito & Vector
Control District
155 Mason Circle
Concord, CA 94520**

California CLASS

California CLASS

Average Monthly Yield: 5.5417%

	Beginning Balance	Contributions	Withdrawals	Income Earned	Income Earned YTD	Average Daily Balance	Month End Balance
General CLASS	1,003,799.02	0.00	0.00	4,724.50	8,523.52	1,004,256.23	1,008,523.52
TOTAL	1,003,799.02	0.00	0.00	4,724.50	8,523.52	1,004,256.23	1,008,523.52



General CLASS

Account Summary

Average Monthly Yield: 5.5417%

	Beginning Balance	Contributions	Withdrawals	Income Earned	Income Earned YTD	Average Daily Balance	Month End Balance
California CLASS	1,003,799.02	0.00	0.00	4,724.50	8,523.52	1,004,256.23	1,008,523.52

Transaction Activity

Transaction Date	Transaction Description	Contributions	Withdrawals	Balance	Transaction Number
12/01/2023	Beginning Balance			1,003,799.02	
12/31/2023	Income Dividend Reinvestment	4,724.50			
12/31/2023	Ending Balance			1,008,523.52	

California State Treasurer *Fiona Ma, CPA*



Local Agency Investment Fund
P.O. Box 942809
Sacramento, CA 94209-0001
(916) 653-3001

February 23, 2024

[LAIF Home](#)
[PMIA Average Monthly Yields](#)

CONTRA COSTA MOSQUITO AND VECTOR CONTROL
DISTRICT
MANAGER
155 MASON CIRCLE
CONCORD, CA 94520

[Tran Type Definitions](#)

January 2024 Statement

Effective Date	Transaction Date	Tran Type	Confirm Number	Web Confirm Number	Authorized Caller	Amount
1/12/2024	1/11/2024	QRD	1745079	N/A	SYSTEM	97,443.37

Account Summary

Total Deposit:	97,443.37	Beginning Balance:	8,876,669.11
Total Withdrawal:	0.00	Ending Balance:	8,974,112.48

1648970
Contra Costa Mosquito & Vector Control
155 Mason Circle
Concord CA 94520

Date 1/31/24 Page 1
Enclosures

Public Money Market		Number of Enclosures	0
Account Number		Statement Dates	1/01/24 thru 1/31/24
Previous Balance	928,937.39	Average Ledger	928,937.39
Deposits/Credits	.00	Average Collected	928,937.39
Checks/Debits	.00	Annual Percentage Yield Earned	3.98%
Service Charge	.00	2024 Interest Paid	3,087.27
Current Balance	932,024.66	Interest Paid	3,087.27

Deposits and Additions

Date	Description	Amount
1/31	Interest Deposit	3,087.27

Daily Balance Information

Date	Balance	Date	Balance
1/01	928,937.39	1/31	932,024.66

Interest Rate Summary

Date	Rate
12/31	3.843000%
1/09	3.929000%





**Contra Costa Mosquito & Vector
Control District
155 Mason Circle
Concord, CA 94520**

California CLASS

California CLASS

Average Monthly Yield: 5.4981%

	Beginning Balance	Contributions	Withdrawals	Income Earned	Income Earned YTD	Average Daily Balance	Month End Balance
General CLASS	1,008,523.52	0.00	0.00	4,696.03	4,696.03	1,008,675.00	1,013,219.55
TOTAL	1,008,523.52	0.00	0.00	4,696.03	4,696.03	1,008,675.00	1,013,219.55



General CLASS

Account Summary

Average Monthly Yield: 5.4981%

	Beginning Balance	Contributions	Withdrawals	Income Earned	Income Earned YTD	Average Daily Balance	Month End Balance
California CLASS	1,008,523.52	0.00	0.00	4,696.03	4,696.03	1,008,675.00	1,013,219.55

Transaction Activity

Transaction Date	Transaction Description	Contributions	Withdrawals	Balance	Transaction Number
01/01/2024	Beginning Balance			1,008,523.52	
01/31/2024	Income Dividend Reinvestment	4,696.03			
01/31/2024	Ending Balance			1,013,219.55	

**Balance Sheet
As of January 2024**

**January
2024**

ASSETS

Current Assets

Five Star Checking:General	5,093,209.93
Money Market: General	928,937.39
California CLASS:General	1,008,523.52
LAIF	8,876,669.11
VCJPA	1,272,731.00
Wells Fargo Bank - checking	121,720.14
Property Tax Due from County	3,606,699.99
Benefit Assessment Due from County	936,174.03
Prepaid Retirement - CCCERA	827,433.09
Total Current Assets:	22,672,098.20

Fixed Assets

Asset Nondepreciable (Land):General	778,640.00
Asset Depreciable:General	695,755.00
Total Fixed Assets:	1,474,395.00

Other Assets

Net Pension Asset:General	643,711.00
GASB 68/75 Outflow	2,258,655.00
Total Other Assets:	2,902,366.00

Total Assets:	27,048,859.20
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LIABILITIES & EQUITY

Current Liabilities

Accrued Payroll Liabilities	181,481.42
Deferred Revenue	4,124,549.63
Total Current Liabilities:	4,306,031.05

Long-Term Liabilities

Net Pension Liability	4,328,728.00
Total Long-Term Liabilities:	4,328,728.00

Total Liabilities:	8,634,759.05
---------------------------	---------------------

Accrued Equity & Designated Reserves	16,961,818.82
Current Year Net Income	1,452,281.33
Total Equity:	18,414,100.15

Total Liabilities & Equity:	27,048,859.20
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Contra Costa Mosquito and Vector Control District

FY24 Budget Year

(July 1, 2023 - June 30, 2024)

Board Packet

59% of the Year
completed

	FY24 <i>As of 1/31/24</i>	FY24 Budget	YTD FY24 VS Adopted Budget %	ADOPTED FY24 VS FY24 \$
Personnel Costs				
Payroll & OT	2,251,541	4,240,776	53.1%	1,989,235
Retirement	782,151	1,200,000	65.2%	417,849
OASDI	128,903	262,928	49.0%	134,025
Medicare	31,515	61,491	51.3%	29,976
Fringe Benefits (Medical/Dental/Vision, Retirement Fees, etc.)	334,547	681,865	49.1%	347,319
Unemployment	13,851	16,500	83.9%	2,649
Disability Ins	7,527	14,750	51.0%	7,223
Other Post Employment Benefits	0	215,000	0.0%	215,000
District Paid Health Retiree Cost & Fees	60,451	111,800	54.1%	51,349
Subtotal Personnel Costs	3,610,486	6,805,110	53.1%	3,194,625
Operational Costs				
Professional Services - Legal includes Settlements	36,287	75,000	48.4%	38,713
Professional Services - Building & Grounds Maint	5,682	25,000	22.7%	19,318
Professional Services - All Other	67,166	296,900	22.6%	229,734
Public Affairs	7,244	109,000	6.6%	101,756
Lab Services	28,135	50,000	56.3%	21,865
Information & Technology	19,219	118,100	16.3%	98,881
Operations - Control Materials	162,365	193,000	84.1%	30,635
Operations - Aerial	2,103	30,000	7.0%	27,897
Operation and Facilities - All Other	101,793	932,000	10.9%	830,207
General Office Administration - Insurance	395,250	398,250	99.2%	3,000
General Office Administration - Trustee Expense	13,422	20,000	67.1%	6,578
General Office Administration - Employee Travel & Training	25,549	47,000	54.4%	21,451
General Office Administration - Utilities	48,494	122,500	39.6%	74,006
General Office Administration - All Other	30,777	508,800	6.0%	478,023
Subtotal Operational Cost	943,487	2,925,550	32.2%	1,982,063
Capital				
Land	0	0	0.0%	0
Vehicles	59,618	210,000	28.4%	150,382
Heavy Equipment	22,202	22,000	100.9%	(202)
Subtotal Capital	81,819	232,000	35.3%	150,181
Total Expenditures	4,635,792	9,962,660		
Revenues				
Property Taxes	4,558,740	7,814,983	58.3%	3,256,243
Benefit Assessment	1,215,629	2,083,936	58.3%	868,307
Contract Billing	103,738	52,020	199.4%	(51,718)
Interest Income	174,951	100,000	175.0%	(74,951)
Fixed Asset Disposal	23,501	60,000	39.2%	36,499
Miscellaneous	11,513	50,000	23.0%	38,487
Subtotal Revenue	6,088,073	10,160,939	59.9%	4,072,866
Estimate Ending Balance	1,452,281	198,279		
Designated Reserves POLICY FY 24 (July 2023 - June 2024)				
Bond Reserve	0			
Public Health Emergency	2,500,000			
Capital Improvement	5,000,000			
Emergency Reconstruction Response	500,000			
Operations	4,981,330			
Vehicle & Equipment Replacement	250,000			
IT Equipment Replacement	250,000			
Total Designated Reserves	13,481,330			



2023 Annual Operations Report

Prepared by Steve Schutz, Ph.D., Scientific Programs Manager
Submitted to the CCMVCD Board of Trustees on March 11th, 2024

1. Introduction and Summary

CEQA, the California Environmental Quality Act, requires all state and local agencies in California to evaluate and publicly report on the potential environmental impacts of their discretionary activities and to mitigate those impacts which could be significantly adverse. In March 2016, in order to ensure the fullest possible compliance with CEQA, the District completed a full Programmatic Environmental Impact Report (PEIR) which includes a comprehensive review of all District practices and policies, potential environmental impacts, and mitigation measures used to minimize or eliminate potential impacts. Although CEQA regulations do not mandate annual updates unless there are significant changes in our program, District Staff continues to produce an annual Operations Report. This report summarizes District activities during 2023, in comparison with the previous ten years.

The District has long emphasized environmental stewardship while accomplishing its public health mission, primarily through strict adherence to an IPM (Integrated Pest Management) approach to the control of mosquitoes and other vectors of human disease. As such, District policies emphasize training, vector and pathogen surveillance, the integration of biological and physical control practices with chemical control (public health pesticides), and the judicious use of appropriate control tools only when vectors exceed specific thresholds. During 2023 there were no new or extraordinary District activities or substantial changes in District policies which could have caused significant environmental impacts, and there were no substantial new regulations or research results which alter the conclusions in our PEIR regarding actual or potential environmental impacts.

2. Biological Control of Mosquitoes

District staff has traditionally implemented a four-pronged approach to biological control of mosquitoes. The general elements of biological control used by the District are 1) rearing, stocking, and providing the mosquitofish (*Gambusia affinis*) to eat larval mosquitoes in sites where mosquitofish are unlikely to cause significant adverse impacts on native species; 2) a program to identify, develop, and evaluate additional biocontrol agents that can be produced at reasonable cost; 3) collaboration with land-owners and managers to implement land and water management practices that protect and support populations and dispersal of native mosquito predators; and 4) policies and training designed to protect native predators.

In 2020, the District initiated a service request/field inspection-based system where District staff was able to evaluate each site and determine whether or not fish were an appropriate solution. The District stocked approximately 29,000 mosquitofish in 2023. The total number of fish stocked was lower than the previous five years, and has generally decreased since the District stopped providing fish on demand for walk-in customers (Figure 1). Artificial sources like unmaintained swimming pools continue to produce substantial numbers of mosquitoes, but the number of such sources varies with changing economic conditions. Mosquitofish stocking in pools continues to be a critical tool for addressing West Nile virus in urban and suburban areas, and poses very low environmental risk. Year-to-year variations in stocking in natural waters and other traditional sites (horse troughs, etc.) are due primarily to weather patterns that change the extent of appropriate stocking sites. Although the District continues to study potential use of native fish for mosquito control, mosquitofish stocking in

natural sites will most likely continue at similar rates in upcoming years. There was no substantial new research published nor regulations issued in the past year on the potential environmental consequences of mosquitofish.

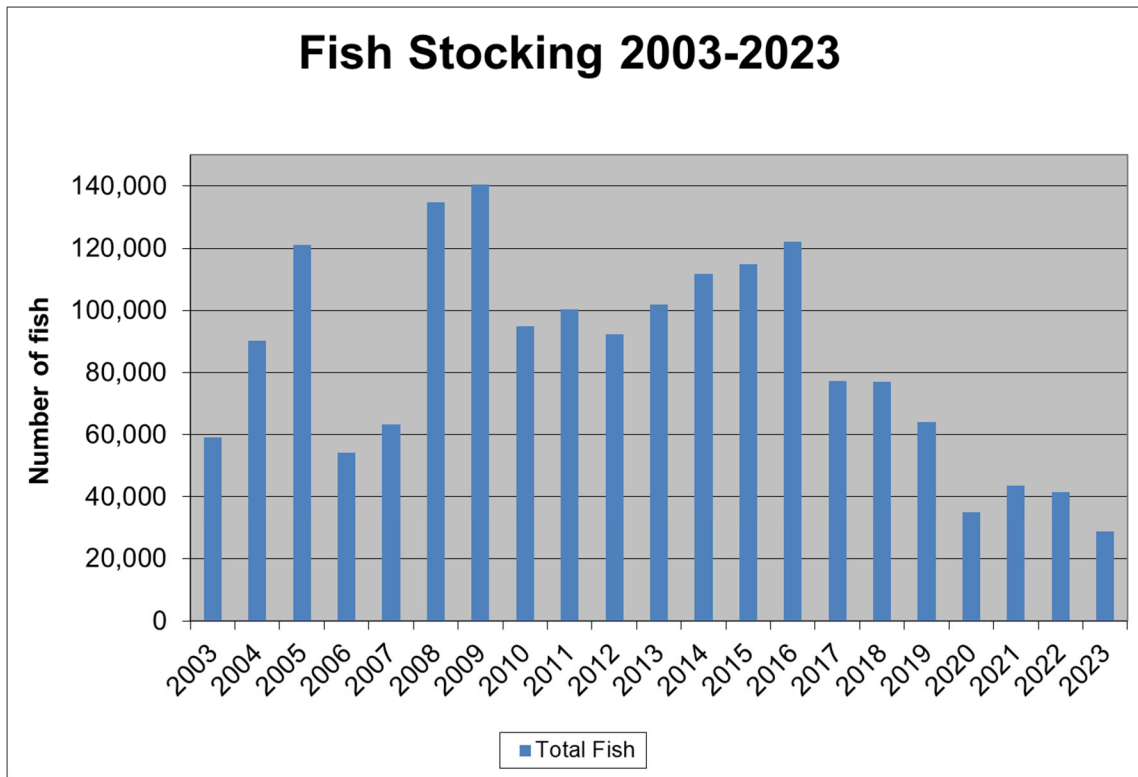


Figure 1: Use of mosquitofish for biological control, 2003 - 2023.

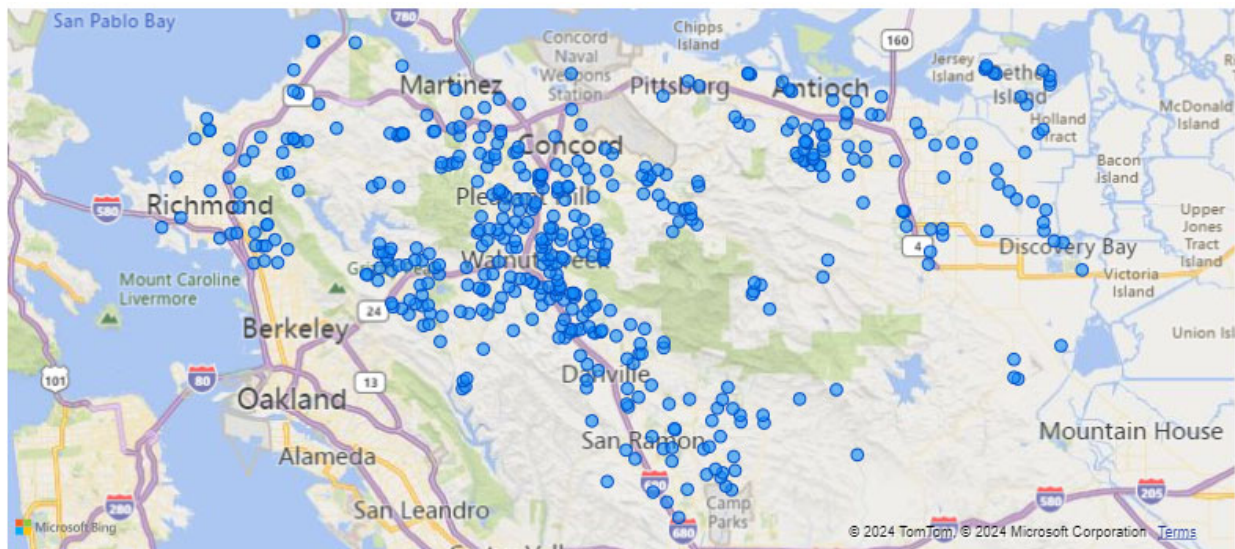


Figure 2. Locations where mosquitofish were stocked by District technicians in 2023.

In 2023, the District Biologist continued working with the California Department of Fish and Wildlife (CDFW) to provide consulting and captive breeding of native fish to repopulate areas that were once part of their natural range, and potentially for control of mosquito larvae in sensitive habitats where use the non-native mosquitofish may not be appropriate.

A high priority of the District is collaboration with landowners on improving land and water management to reduce mosquito production while maintaining other desirable ecological functions of the sites, and a major focus of this work is manipulating habitats to promote the survival, reproduction, and dispersal of natural aquatic predators, including fish and aquatic invertebrates such as water beetles and juvenile dragonflies. Target sites include refinery ponds, stormwater treatment facilities, irrigated pastures, duck clubs, sewer treatment marshes, etc. Environmental protection in these projects is ensured through close collaborations with resource and permitting agencies (DFW, the Regional Water Quality Control Board (RWQCB), the Army Corps of Engineers (ACE), the Bay Conservation and Development Commission (BCDC), etc.), as well as with landowners. Two sub-activities, Physical Control/Source Reduction and Vegetation Management, have been traditionally distinguished in this report, and are discussed below.

Finally, training and treatment protocols for pesticide use emphasize protection of predators when they are present in sites with mosquito larvae. The District's larvicide treatment protocols request field inspectors to observe whether a mosquito-producing site also has the presence of any significant populations of predators, and if so, to avoid pesticides or to use the pesticide with the least possible impact on natural predators if mosquito populations are sufficient to require prompt treatment.

3. Physical Control

The District actively works with RWQCB, Contra Costa County Clean Water Program (CCCWP) and other agency staff and property managers to facilitate maintenance of conditions that encourage desirable species while discouraging mosquitoes, and also to reduce the need for staff time (for inspection and control) and for pesticide applications to sites where maintenance is not consistent. The District's Vector Control Planner facilitates such interactions. Some existing stormwater detention projects have become significant mosquito sources and disease risk foci due to inadequate design and/or maintenance, and our staff has been working closely with the responsible local authorities to correct these conditions, with some noteworthy success. Evaluations of past District source reduction projects continue to indicate that the environmental consequences of these projects have been positive and that increases in tidal action and pro-active water management have particularly benefited a range of wetland-dependent native species.

4. Vegetation Management

The District did not apply any chemical herbicides in 2023. Vegetation management was conducted with hand tools (“brushing”) as needed to allow access for vector surveillance as in past years. No significant or unanticipated problems were encountered.

5. Chemical Control (Pesticides)

The attached tables compare 2023 pesticide use with the previous ten years individually and with ten-year averages. This year, as in the preceding report, the quantity applied is reported as the total amount (pounds) of active ingredients applied. Overall pesticide use was lower in 2023 than in 2022 (Fig. 5) due mainly to fewer treatments of large coastal and agricultural sites. The long term trend has been a reduction in the use of larvicidal oils in favor of bacterial larvicides and growth regulators (Table 1). As in previous seasons, adulticides were applied in small quantities using vehicle-mounted ultra-low volume (ULV) or hand foggers in specific rural and residential areas where West Nile virus (WNV) risk and/or adult mosquito counts were elevated (Fig. 3).

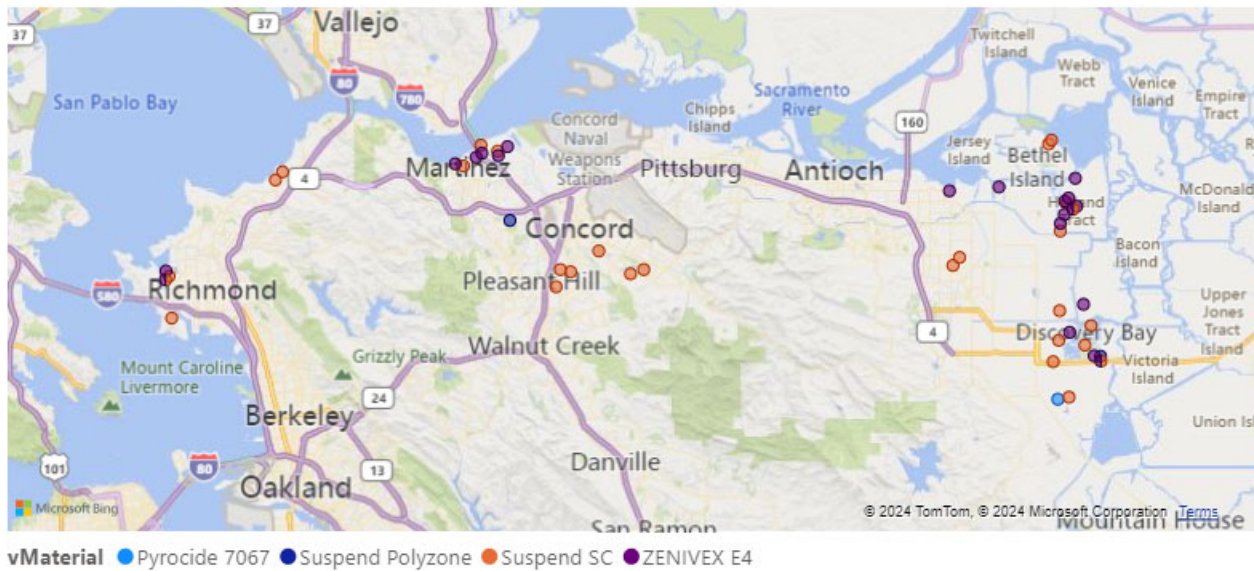


Figure 3. Locations where adulticides were used in 2023, by material

Pesticide Applications 2013-2023

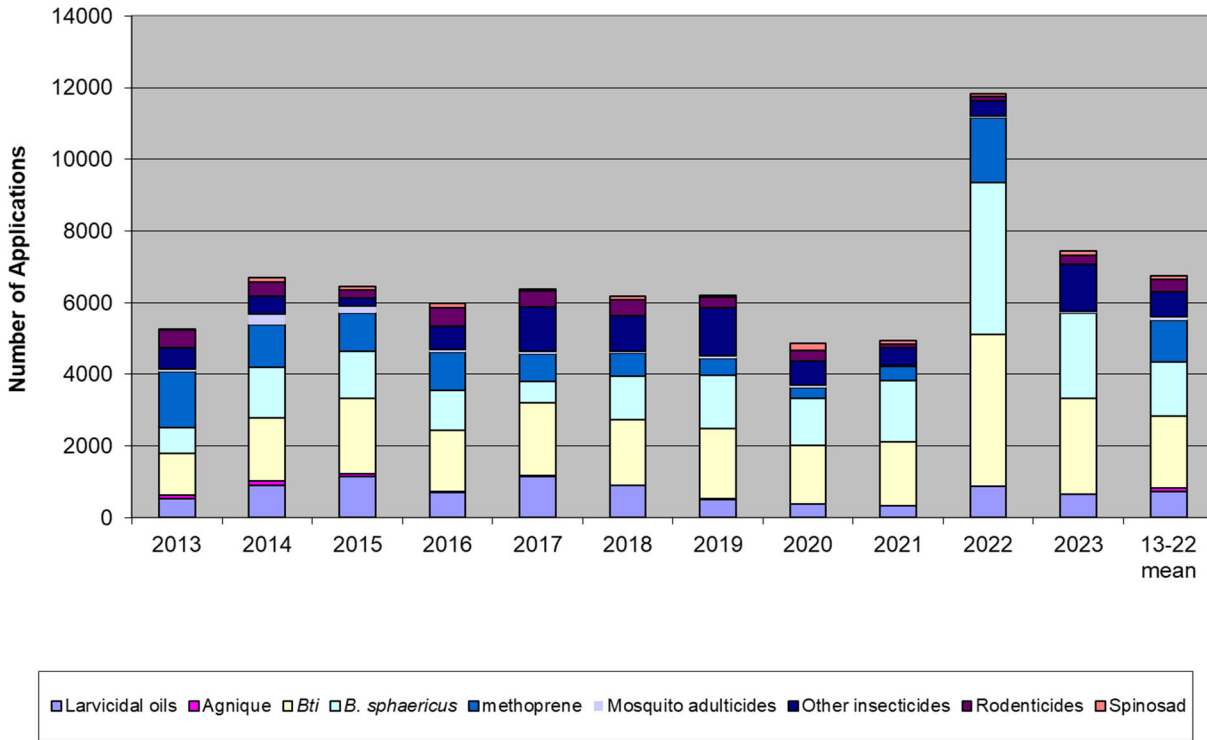


Figure 4. Number of pesticide applications in 2023, by material class

Mosquito larvicides dominate the District’s pesticide applications (Fig. 4), and four active ingredients dominate the District’s larvicide applications. In terms of number of applications, the insect growth regulator methoprene and the bacterial pesticides *Bacillus thuringiensis israelensis* (*Bti*) and *Bacillus sphaericus* (*Bs*), which are considered “biopesticides” by EPA and “least toxic pesticides” by virtually all regulators, are the larvicides of first choice at the District. These products continue to replace larvicidal oils such as GB-1111 and BVA. These light mineral oils, in contrast to all other products, are nearly 100% active ingredient and are applied at much higher quantities per acre (up to five gallons/acre in dense vegetation) since they must cover the entire surface area of the source with a thin film in order to suffocate air-breathing mosquito larvae. Therefore, they continue to dominate Figure 5, which shows pounds of active ingredient applied each year. Larvicidal oils are the only products currently used by the District that reliably control mosquito pupae, and therefore these products may continue to be used whenever mosquito pupae are encountered at densities exceeding our control thresholds.

Pesticide Quantities 2013-2023

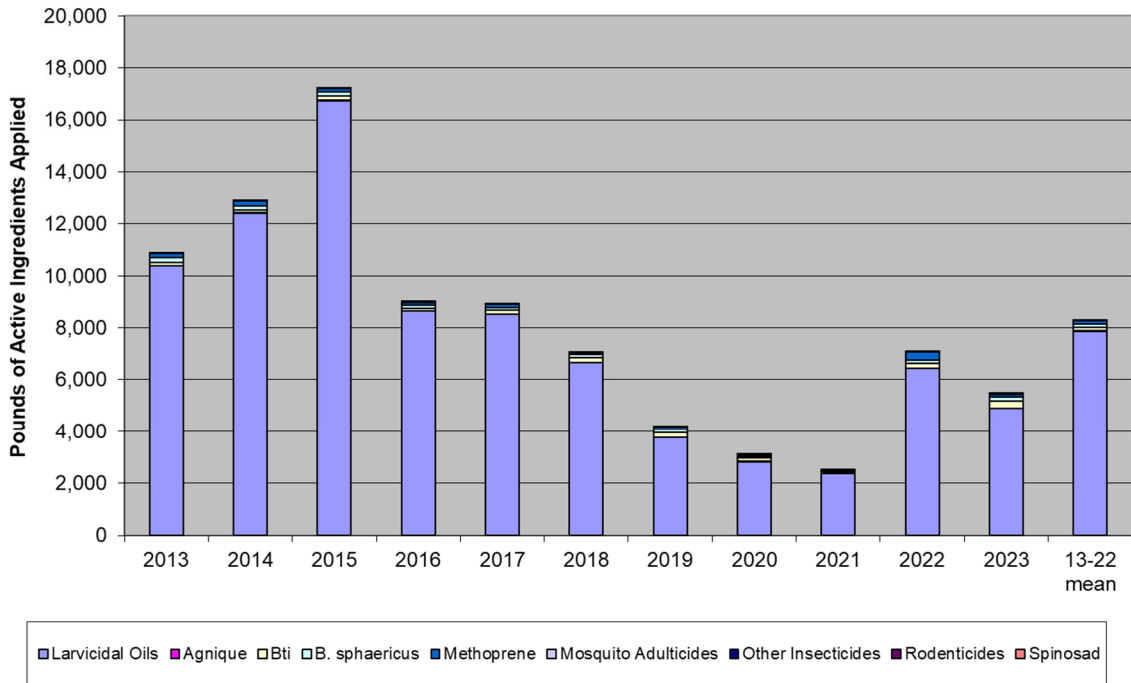


Figure 5. Amount of pesticide applied by material (pounds of active ingredient)

Because of the dominance of larvicidal oils in terms of pounds of active ingredient used annually, Figure 6 shows pesticide quantities with this product excluded to better compare the other products. Agnique, an alternative non-oil based surface film, is being phased out and was not used in 2023. Some new formulations of methoprene and *B. sphaericus*, and combinations of *Bti* with *B. sphaericus* and methoprene have been introduced in recent years, but present no potential new environmental consequences. Natular™, containing the active ingredient spinosad, a bacterial fermentation product, continues to be used operationally. Since it is similar or lower in risk classification than other biopesticides already in use by the District, it is not expected to have any significant environmental impact. It is also useful in rotation with other larvicides to reduce the likelihood of resistance developing in our local mosquito populations.

Pesticide Quantities (w/o Larv. Oils) 2013-2023

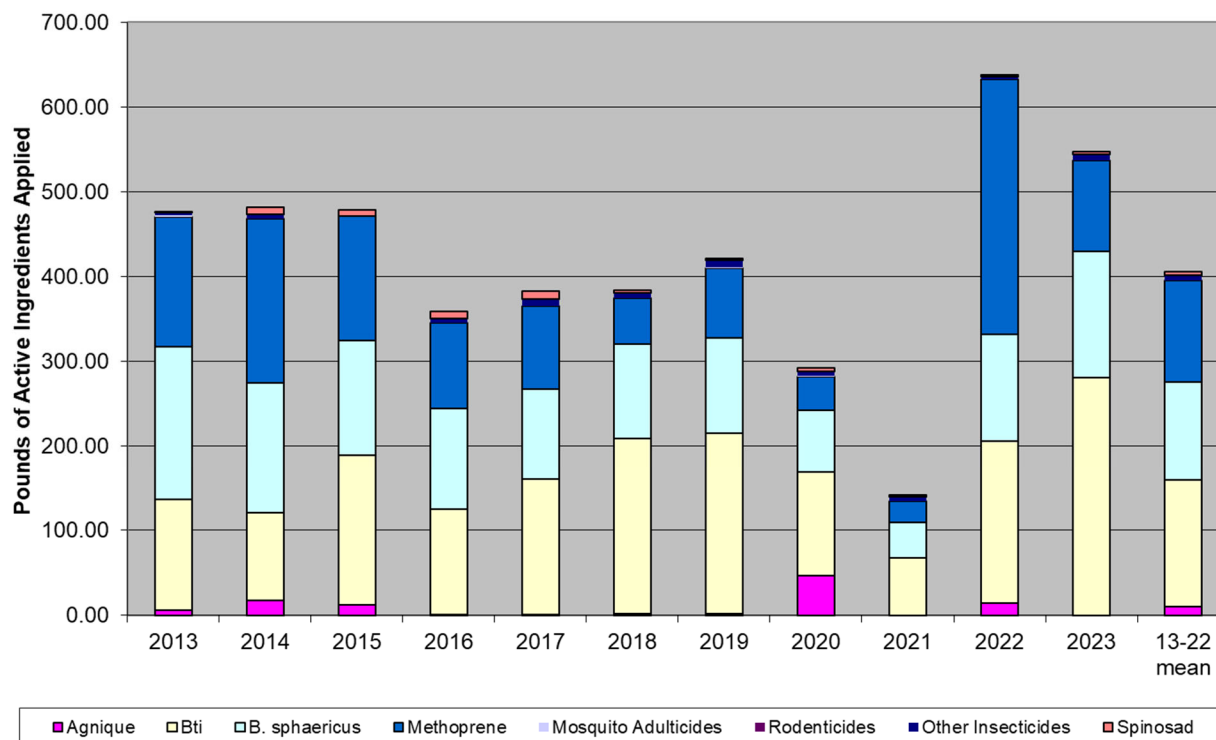


Figure 6. Amount of pesticide applied by material (pounds of active ingredient), excluding oils

District use of mosquito adulticides, in terms of quantity was higher in 2023 than the previous year, in response to high West Nile virus risk and high mosquito counts in Central and East County, but still below the 10-year average. Overall, use of adulticides continues to be very small in comparison with larvicide use in terms of the number of applications (Fig. 4), the total amount of active ingredient applied (Fig. 6), and the area treated, in keeping with the District’s policy of preventing adult mosquito outbreaks through larval control whenever possible.

Adulticides used by the District in 2023 included the synthetic pyrethroids Zenivex (etofenprox) and Suspend (deltamethrin) in addition to a small amount of the natural pyrethrin product Pyrocide 7067. Unlike the natural pyrethrin products, Zenivex does not contain piperonyl butoxide (PBO) as a synergist and thus is regarded as ‘reduced risk’ material. Historically, our usage of synthetic pyrethroids had been low compared with natural pyrethrins (Fig. 7a,b); however, availability of natural pyrethrins varies from year to year, and there have been concerns about the presence of genes responsible for pyrethrin resistance in California mosquito populations, making it prudent not to depend on a single class of products. Resistance testing of *Culex tarsalis* collected in the Martinez waterfront area in 2023 demonstrated that this population has the potential to develop resistance to some pyrethroids. We maintain a colony of fully susceptible *Culex tarsalis* in our insectary to provide a control group for resistance testing.

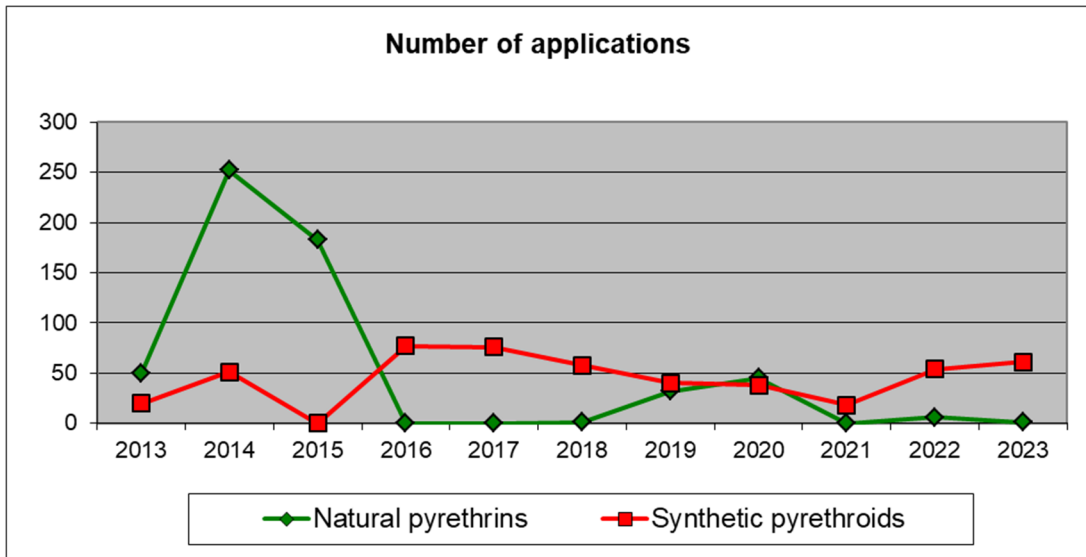


Figure 7 a. Number of adulticide applications by class of material.

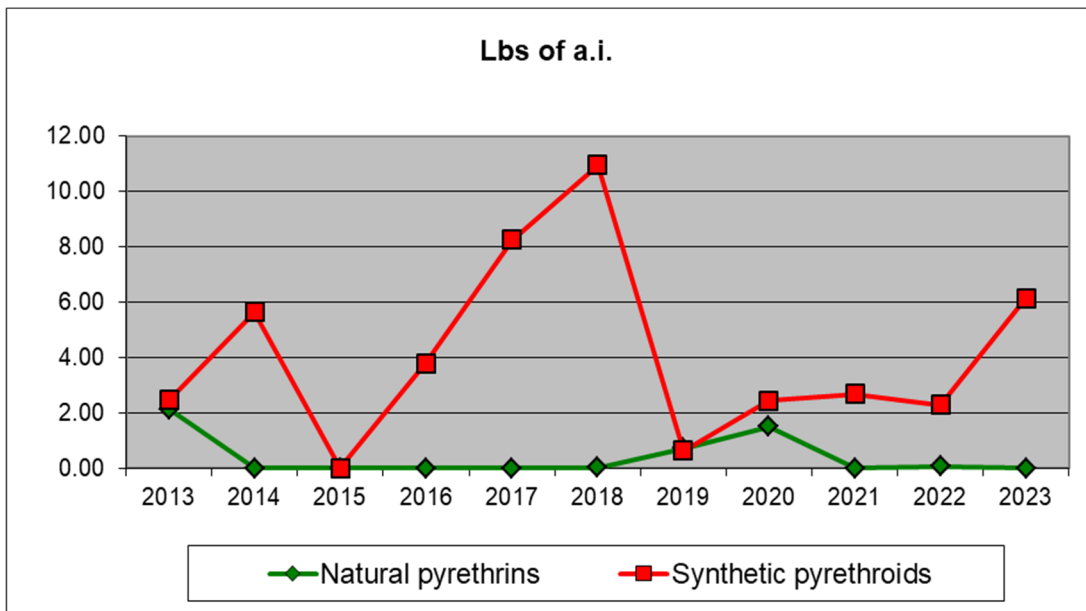


Figure 7b. Amount of a.i. applied by class of material

Applications of other insecticides by the District were limited to the pyrethroid dust product Drione, used to control yellowjacket nests. Usage of this material against ground-nesting yellowjackets was up in 2023 due to an increase in yellowjacket service requests.

The number of rodenticide applications by District personnel was higher in 2023 than in 2022 due to some larger-scale baiting projects. The total quantity of rodenticide active ingredients applied also increased, but was still less than 0.01 lb, due to the very low percentage of a.i. in these bait-based products. The District’s focus continues to be on education and rodent exclusion, as

well as increasingly sophisticated baiting practices. The modes of application minimize the likelihood of accidental contact by the public, pets, or non-target wildlife. District policy continues to prohibit dispersal of rodenticides (or any other pesticides) directly to the public.

6. Other Activities

There were no District activities this year in the areas of Surveillance, Research, Public Education, or Administration which could have caused significant environmental impacts.

7. District Environmental Mitigation Activities

In the October 1999 Negative Declaration and the 2016 PEIR, the District recognized that established District policies require vector surveillance and the use of treatment criteria prior to chemical, biological, or physical control; monitoring and reporting of activities to appropriate agencies; and other measures to minimize potential environmental impacts. Five additional mitigation measures to ensure that these potential impacts remain insignificant were adopted:

- a. Maintenance of up-to-date maps and other information from the California Department of Fish and Wildlife Natural Diversity Data Base and other reliable sources on the location of Special Status Species and designated Natural Communities in the Project Service Area;
- b. Coordination of District activities with approved Habitat Conservation Plans;
- c. Adoption of new policies as needed and provision of training to field personnel to ensure minimization of specific vector control activities and/or the use of alternative vector control methods at times and in places where those specific vector control activities might otherwise significantly impact Special Status Species or designated Natural Communities;
- d. Ensuring that mosquitofish are placed only in appropriate locations by District staff; and
- e. Review of agency lists for potential hazards (contaminated soils) prior to implementation of minor physical control projects in historically industrial zones; and additional, site-specific CEQA review prior to implementation of source reduction projects which might result in discharge of hazardous materials into the environment.

The District has adopted policies and practices to ensure that these requirements are met, and continually reviews their effectiveness. District staff, including the General Manager, Program Supervisors, and Scientific Programs Manager, interact with the California Department of Fish and Wildlife, the U.S. Fish and Wildlife Service, the U.S. Environmental Protection Agency, the American Mosquito Control Association, the Association of American Pesticide Control Officials, and other groups to ensure strong communications and cooperation, and plan and conduct training sessions for District personnel on environmental regulations and compliance measures.

Specific improvements continue to be made to ensure compliance. In 2023, the District maintained its subscription to GIS map layers of endangered species habitat distribution from CDFW. This enables us to provide our field employees with accurate maps of known populations

of endangered or threatened species within their zones to avoid any potential conflicts. To improve the accuracy of our mosquitofish distribution data, all fish must be placed by District employees to ensure proper use, accurate data and avoid potential conflicts with native species. A new mobile database system should provide faster (near real-time) and more accurate recording of all District activities.

8. Regulations and Outside Research

The District continues to comply fully with all applicable Federal and State regulations, including the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), CEQA, and the Clean Water Act (National Pollutant Discharge Elimination System - NPDES), as detailed in our district's PEIR. We also continue to collaborate with other agencies and groups, including the California Department of Public Health, the University of California, the California Department of Fish and Wildlife, and the US Department of Agriculture (USDA) on policies and projects that enhance our ability to protect public health and environmental quality. In addition, we continued to collaborate with the USDA to evaluate potential impacts of aquatic weed control on mosquito larval populations, and provided space in our mosquitofish facility for the rearing of aquatic weed biological control agents by USDA personnel.

9. Acknowledgement

I am grateful to the following individuals for their helpful suggestions and/or assistance with the preparation of the report: Paula Macedo, General Manager; David Wexler, Operations Manager; Jeremy Shannon, Program Supervisor; Terry Davis, Program Supervisor; Wayne Shieh, IT Technician, and Chris Miller, Biologist.

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	13-22 mean	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	13-22 mean	
Pesticide (units)																									
Number of applications																									
Mosquito Adulticides																									
Natural Pyrethrins (lbs)	50	252	183	0	0	1	32	45	0	6	1	57	2.14	0.00	0.00	0.00	0.00	0.04	0.73	1.50	0.00	0.08	0.02	0.49	
Merus (gal)						1	0	0	0	0	0	na						0.0047	0.0000	0.0000	0.0000	0.0000	0.0000	0.00	
Pyrenone 25-5 (gal)	1	0	0	0		0	2	9	0	0	0	1	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	
Pyrocide 7396 (gal)	22	0	0	0		0	0	0	0	6	0	3	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.03	
Pyrocide 7067 (gal)	27	252	183	0		0	30	36	0	0	1	59	0.47	2.97	2.34	0.00	0.00	0.00	0.10	0.19	0.00	0.00	0.00	0.67	
Synthetic Pyrethroids (lbs)	20	51	0	77	76	58	40	38	18	54	61	43	2.47	5.63	0.00	3.80	8.25	10.94	0.64	2.44	2.68	2.30	6.14	4.09	
Scourge (gal)	20	32	0	0	0	16	0	0	0	0	0	7	0.34	0.78	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00	0.00	0.18	
Zenivex E4 (gal)	19	0	77	76	42	29	25	3	15	26		32		0.16	0.00	0.51	1.11	0.96	0.09	0.33	0.36	0.30	0.82	0.44	
Suspend SC (gal)							11	13	15	39	31	20							0.02	0.02	0.02	0.14	0.10	0.02	
Suspend Polyzone (gal)											4												0.00	na	
Synergists* (lbs)													35.77	127.33	86.62	0.00	0.00	11.81	3.70	7.64	0.00	0.39	0.09	30.32	
Piperonyl butoxide (gal)	70	284	183	0	0	16	32	45	0	6	1	64	4.83	17.21	11.71	0.00	0.00	1.60	0.50	1.03	0.00	0.05	0.01	4.10	
Other Insecticides																									
Total (lbs)	469	503	241	636	1241	978	1337	661	500	419	1316	699	3.0	6.0	0.6	5.9	8.7	6.4	8.0	4.7	5.0	2.7	7.1	5.36	
Drione (lbs)	310	499	241	636	1241	978	1337	661	322	419	1316	664	2.68	6.01	0.55	5.87	8.72	6.43	7.99	4.67	5.03	2.65	7.05	5.33	
Delta Dust (lbs)	159	3	0	0	0	0	0	0	178	0	0	34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
M-Pede (gal)	0	1	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
EcoPCO DX (lb)	117	0	0	0	0	0	0	0	0	0	0	12	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	
Essentria D (lb)	17	0	0	0	0	0	0	0	0	0	0	2	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	
Rodenticides																									
Total (lbs)	375	386	343	522	452	444	290	309	98	48	222	327	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.004	0.001	0.000	0.005	0.01	
Contrac Super-Size Blox (lbs)+	373	135	96	101	59	78	0	31	1	0	1	87	0.01583	0.00480	0.00390	0.00723	0.00525	0.00488	0.00000	0.00183	0.00001	0.00000	0.00003	0.00	
Contrac Small Blox (lbs)+	1	0	14	3	0	0	98	164	30	3	16	31	0.00001	0.00000	0.00025	0.00001	0.00000	0.00000	0.00089	0.00103	0.00013	0.00008	0.00005	0.00	
Ditrac Blox (lbs)!	1	0	111	346	330	366	181	104	66	45	205	155	0.00005	0.00000	0.00190	0.00565	0.00598	0.00605	0.00299	0.00154	0.00079	0.00038	0.00064	0.00	
Ditrac Cake (lbs)							11	0	0	0	0	3						0.00130	0.00000	0.00000	0.00000	0.00000	0.00000	0.00	
First Strike Blox (lbs)%	115	188	0	19	0	0	0	0	0	0	0	32	0.00793	0.00600	0.00000	0.00119	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00	
Terad 3 Blox (lbs)&	4	63	122	53	63	0	0	10	1	0	0	32	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00465	0.00

*PBO is a component of pyrethroid adulticides. Not listed separately prior to 2009
+Bromadiolone
!Diphacinone
%Difethialone
&Cholecalciferol

Table 2. Other pesticide usage by material type during 2023 compared with previous ten years

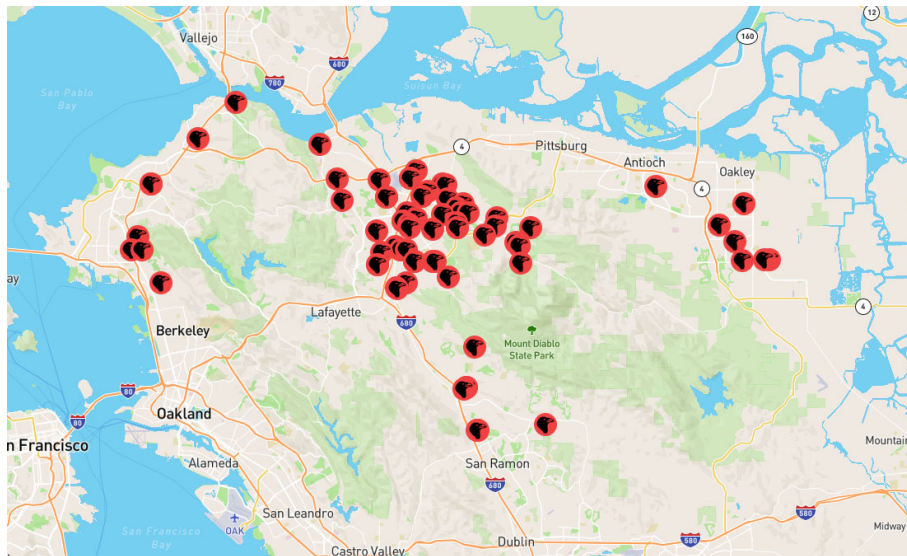
February 2024 Mosquito and Arbovirus Surveillance Report

Updated February 29th by Steve Schutz, Ph.D., Scientific Programs Manager

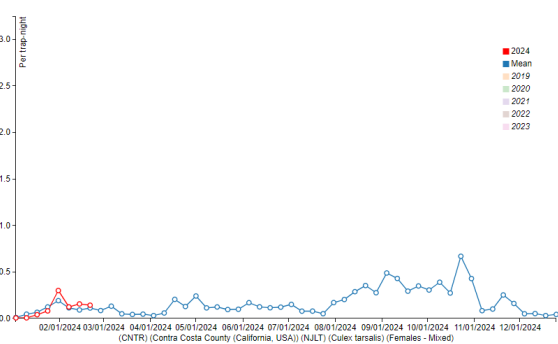
Human cases: As of February 26th, 423 human cases of West Nile virus had been reported in California in 2023, with 19 fatalities. Eight confirmed cases were reported in Contra Costa County.

Horses: 31 equine cases of WNV were reported statewide in 2023. An effective vaccine is available for horses; most affected horses have been unvaccinated.

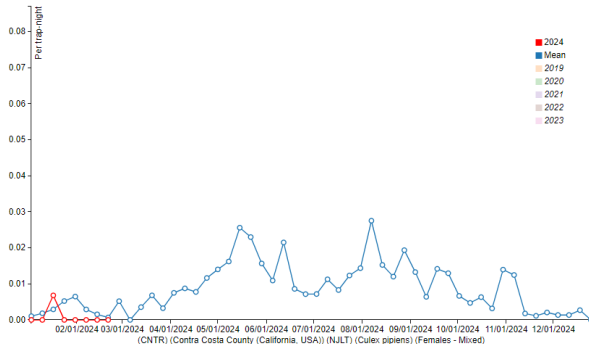
Dead birds: 530 dead birds were reported last year, 130 birds were submitted for testing, and 95 were confirmed positive for WNV (red icon on map). The Statewide hotline is currently closed for the season but online dead bird reports are encouraged year-round at <https://westnile.ca.gov/report>



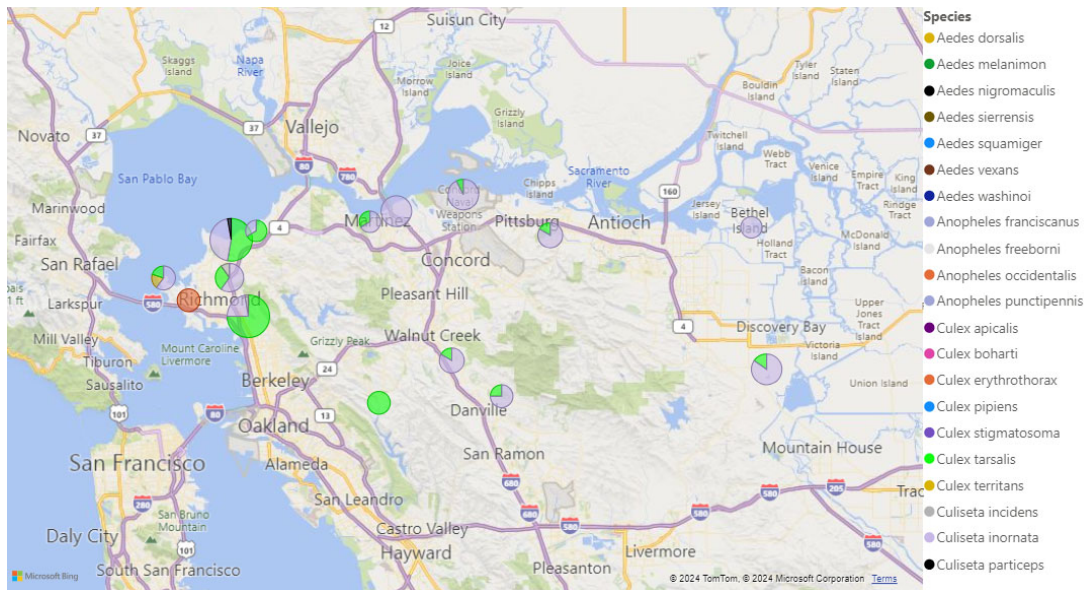
Light trap counts: Twenty-two traps are currently being operated daily year-round, with collections made weekly. Countywide *Culex tarsalis* counts are slightly above average (primarily due to elevated counts at a couple of West County locations) and *Culex pipiens* counts are currently below average for this time of year.



Culex tarsalis counts (red) vs. 5 year average (blue)



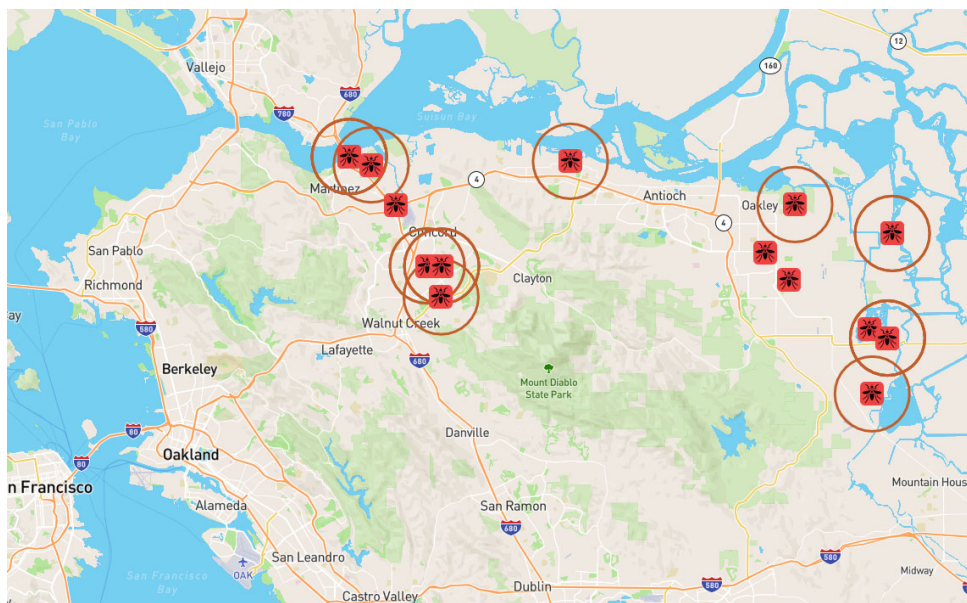
Culex pipiens counts (red) vs. 5 year average (blue)



Map showing light trap locations and relative average species counts from February 1-28th

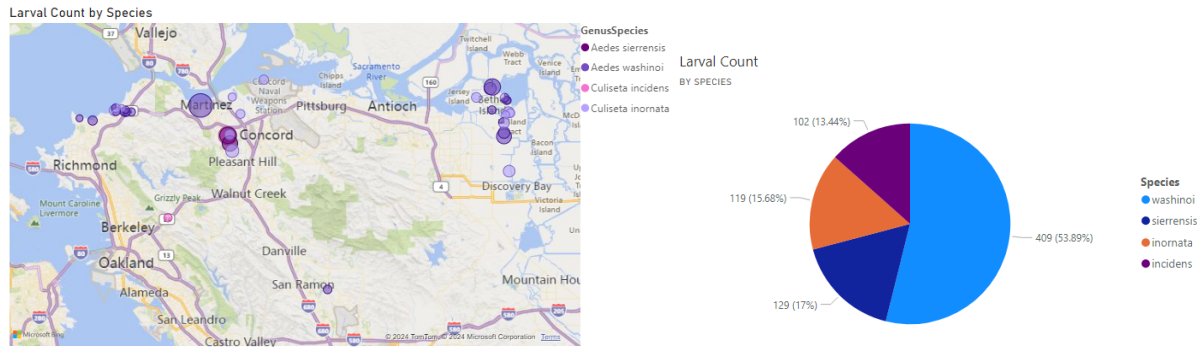
CO₂ traps: Weekly CO₂ trapping is suspended until May.

Mosquito testing: 732 pooled samples were tested in 2023, 26 were positive for WNV.



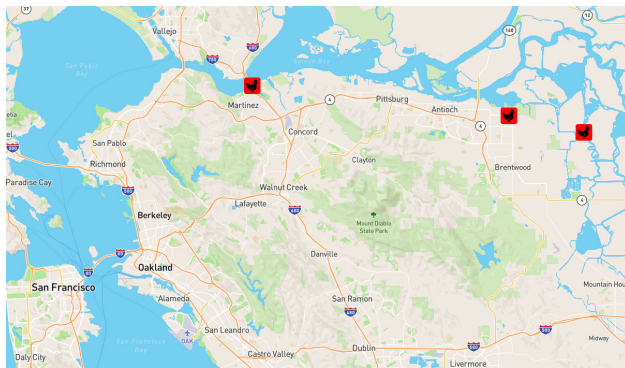
Locations of mosquito samples testing positive for WNV in 2023

Larval samples: Lab staff continues to process larval samples collected by field employees daily, year-round.



Larval samples, February 1-28th 2024.

Sentinel chickens: Eleven chickens at three flock locations tested positive for WNV antibodies in 2023. New chickens have been ordered for 2024 (same flock locations, Martinez, Walnut Creek, Oakley (ISD), Knightsen (Holland Tract Marina)).



Invasive Aedes surveillance: In 2023 we continued to trap in the area of Martinez where *Aedes aegypti* were found in 2022 and at other 'suspect' locations, but did not collect any.

Other projects: The Scientific Programs Manager reported the results of a field trial of Natular G30 larvicide against salt marsh *Aedes* mosquitoes at the 2024 MVCAC Annual Conference in Monterey.

Weather conditions: Current average overnight low temperatures are below the 55 degree incubation threshold for West Nile virus transmission. Rainfall has been above average.

Regional, Statewide: Five WNV positive dead birds have been reported in San Mateo (2), Santa Clara, Alameda and San Diego Counties. These may represent chronic/residual infections from last year.

February 2024 Operations Report

Prepared on February 28, 2023, by Jeremy Shannon and Terry Davis, Program Supervisors, and David Wexler, Operations Manager

General:

Inspections for spring rainwater mosquitoes, *Aedes washinoi* and *Aedes squamiger*, are underway with appropriate control applications being made. Intensive group inspections for western treehole mosquitoes, *Aedes sierrensis*, reduction of their breeding locations, and appropriate applications are being made this last week of the month.

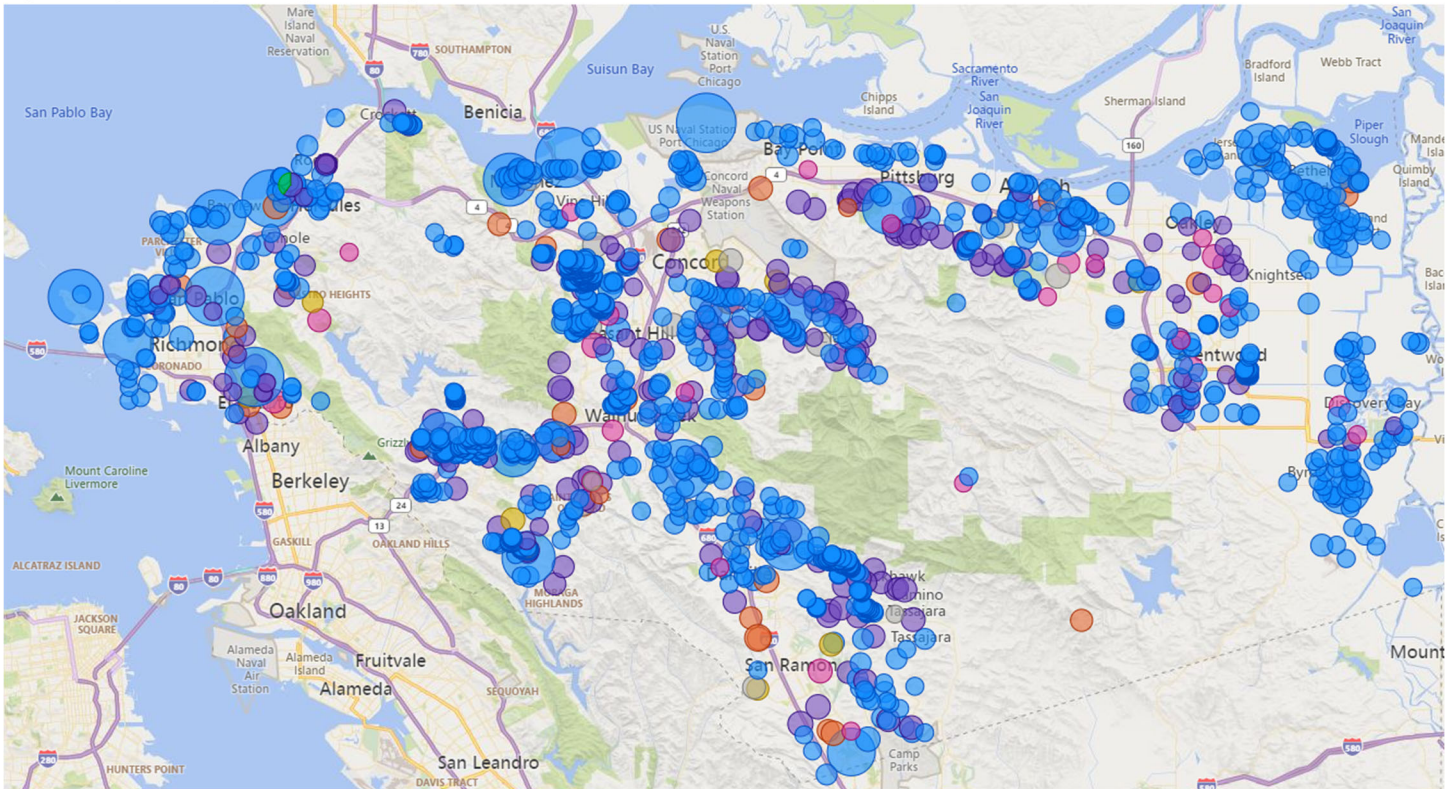
Yellowjacket activity is minimal. Yellowjacket treatments (only two were made in February) have been scheduled around rain events as the soil needs to be dry for dust treatments to be effective.

Although rat and mouse service requests are down 34% from January to February, they continue to compose the majority of service requests the District receives this time of year, accounting for just over 60% of total requests received in February.

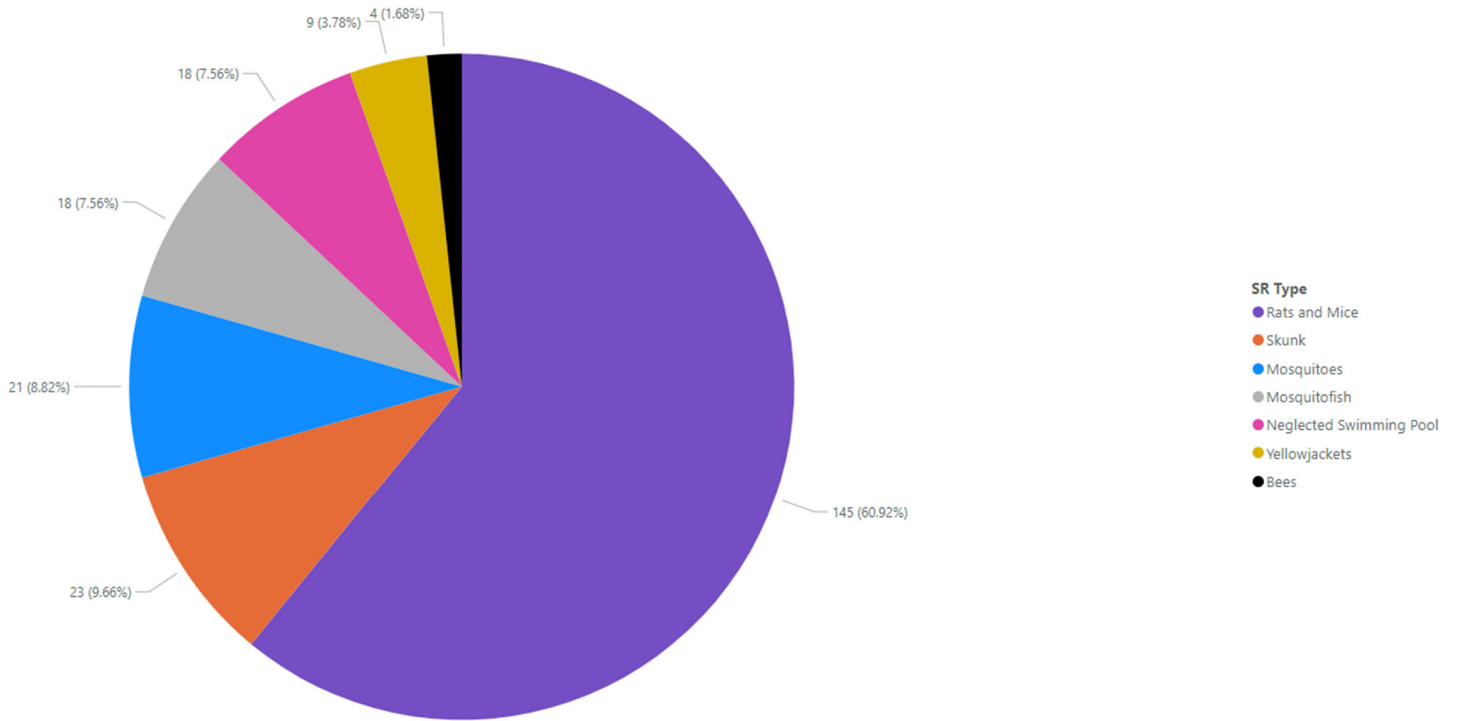
Skunk requests have tapered down to just under 10% of requests received. Several technicians and inspectors are currently undergoing training to take on the responsibility of handling skunk inspections within their respective geographic areas; four have been approved to perform these inspections independently.

Operation Count

Program ● Mosquitoes ● Mosquitofish ● Neglected Swimming Pool ● Rats and Mice ● Skunk ● Tick and Pest Identification ● Yellowjackets



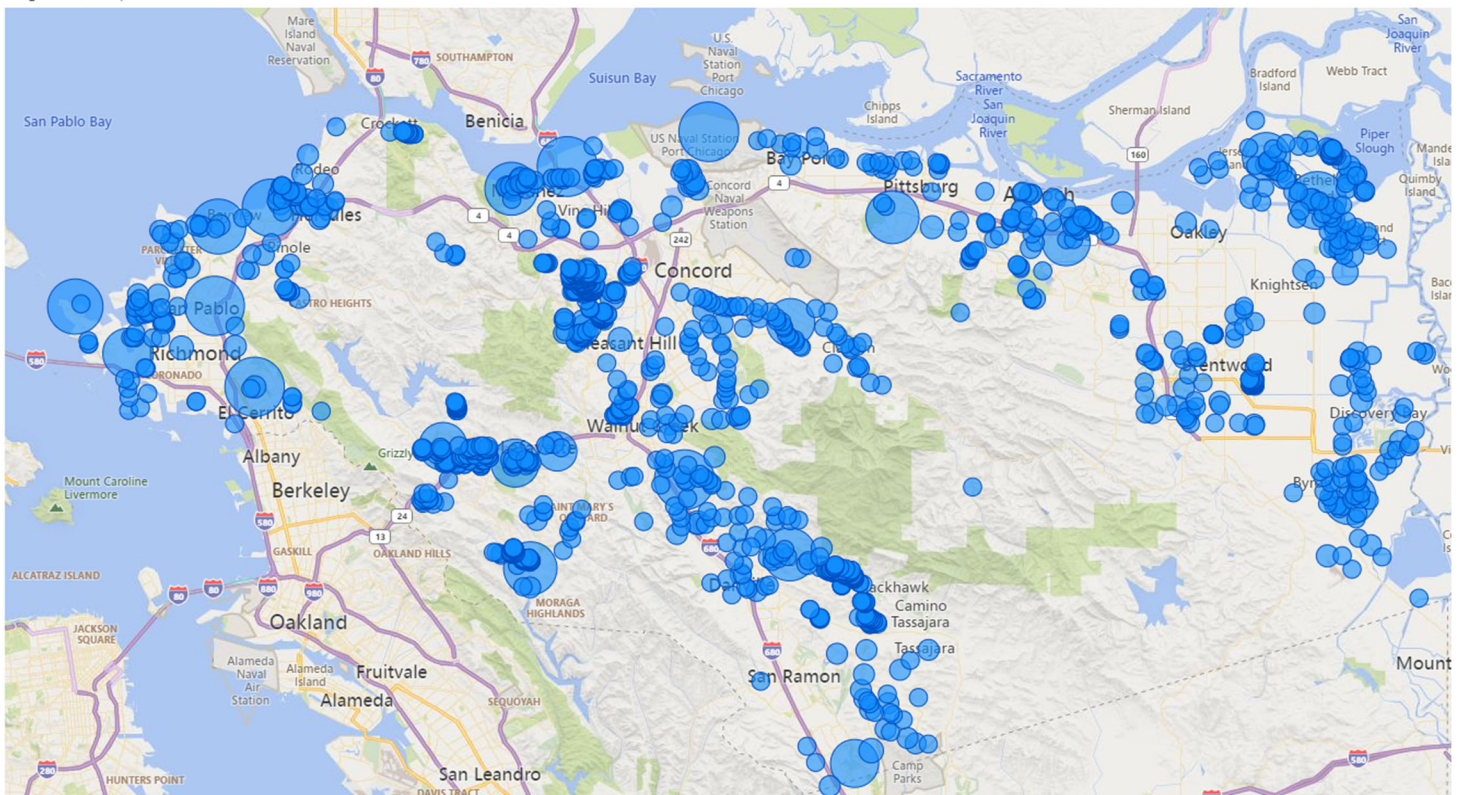
Service Requests



Mosquitoes

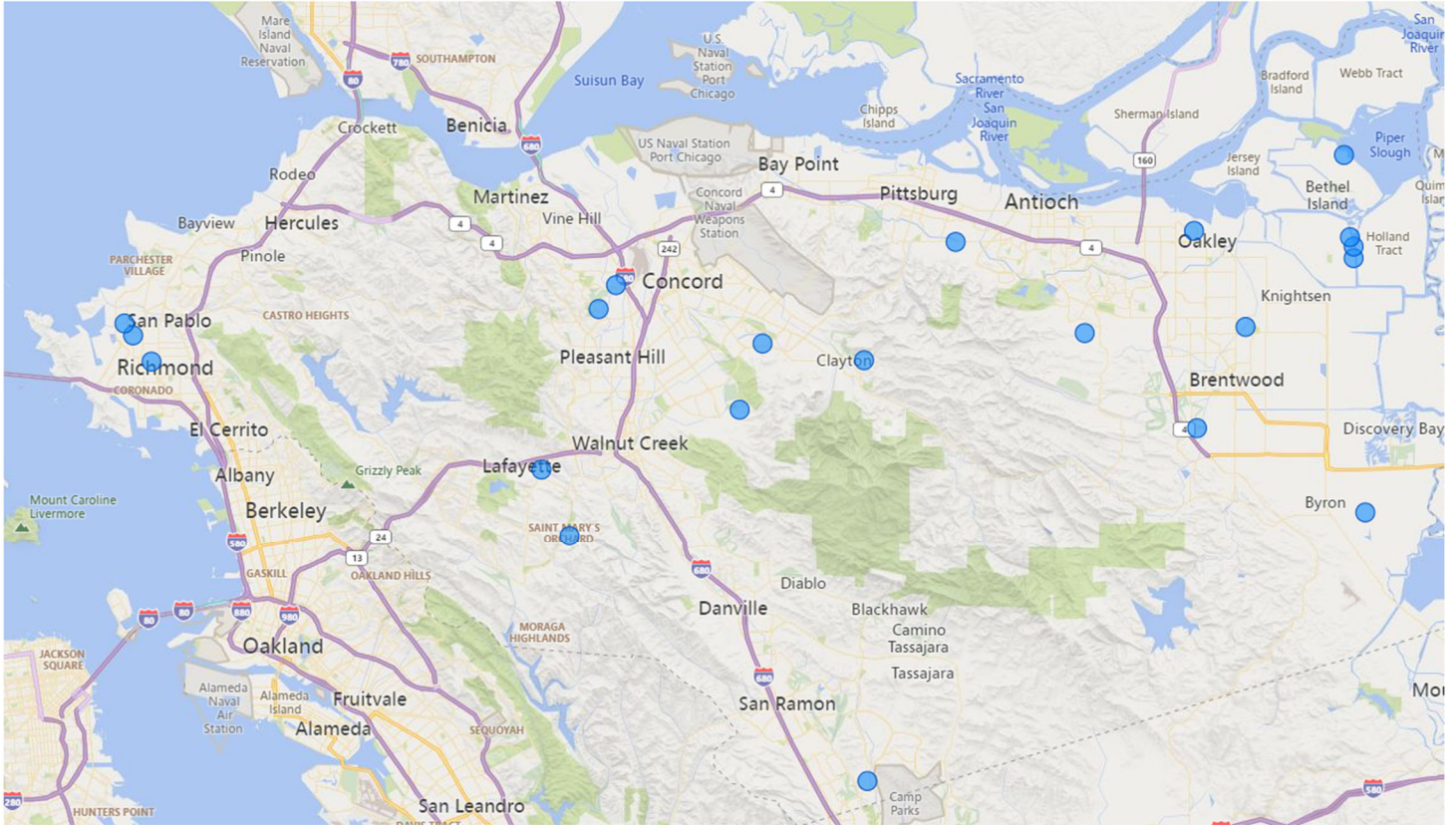
Program actions:

Program ● Mosquitoes



Service Requests: The District received 21 mosquito service requests.

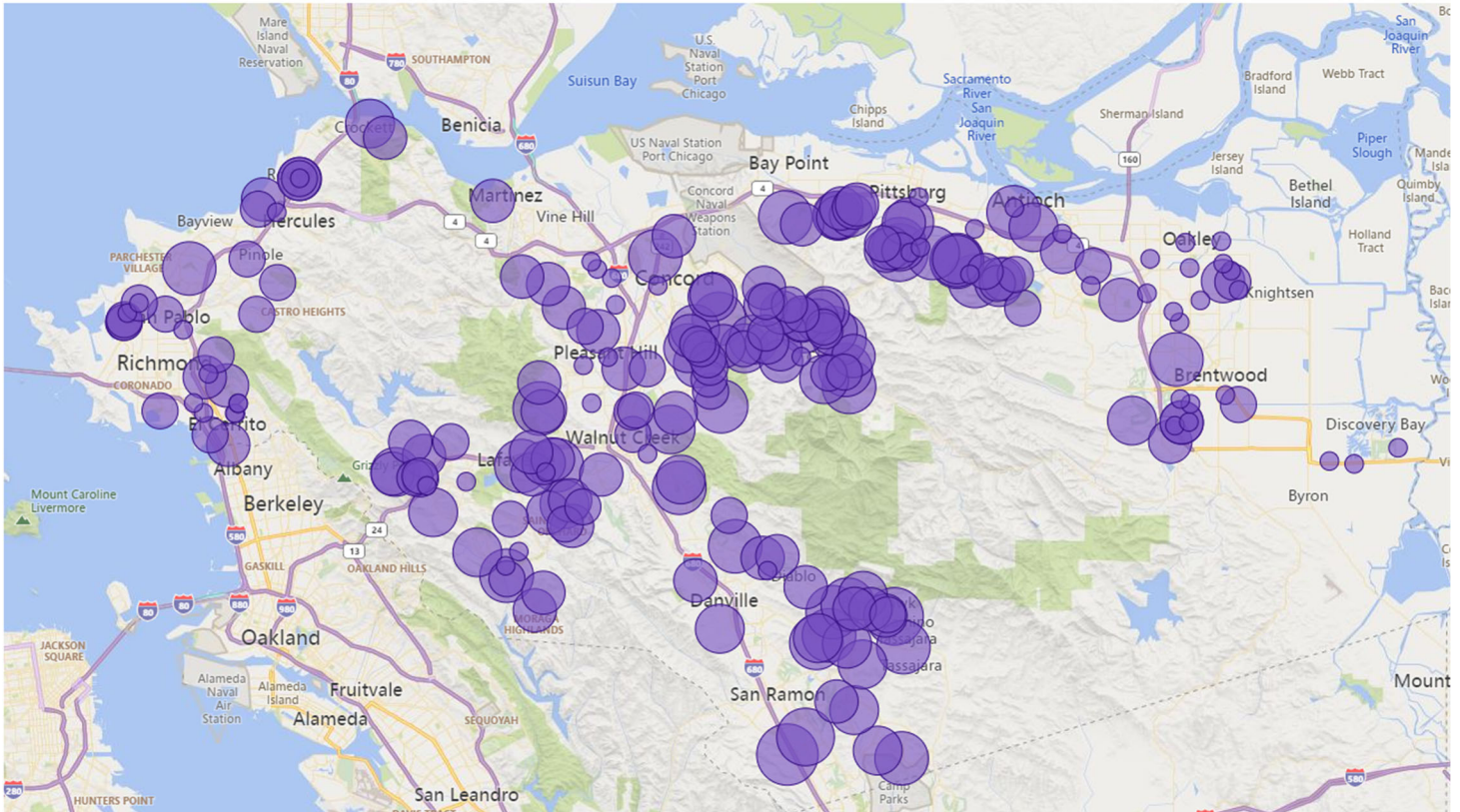
SRTYPE ● Mosquitoes



Rats and Mice

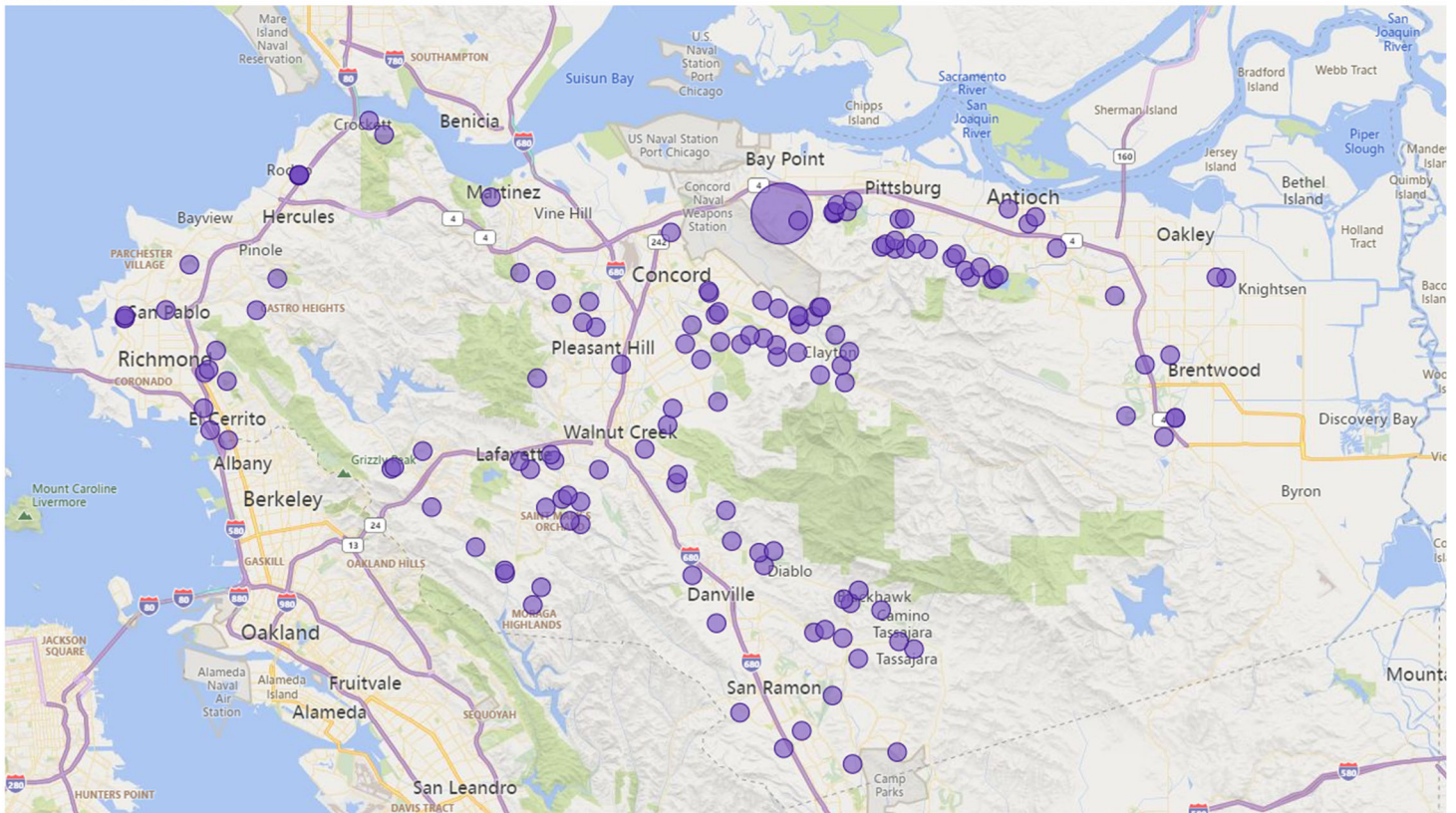
Program actions:

Program ● Rats and Mice



Service Requests: The District received 145 requests for service for rats and mice.

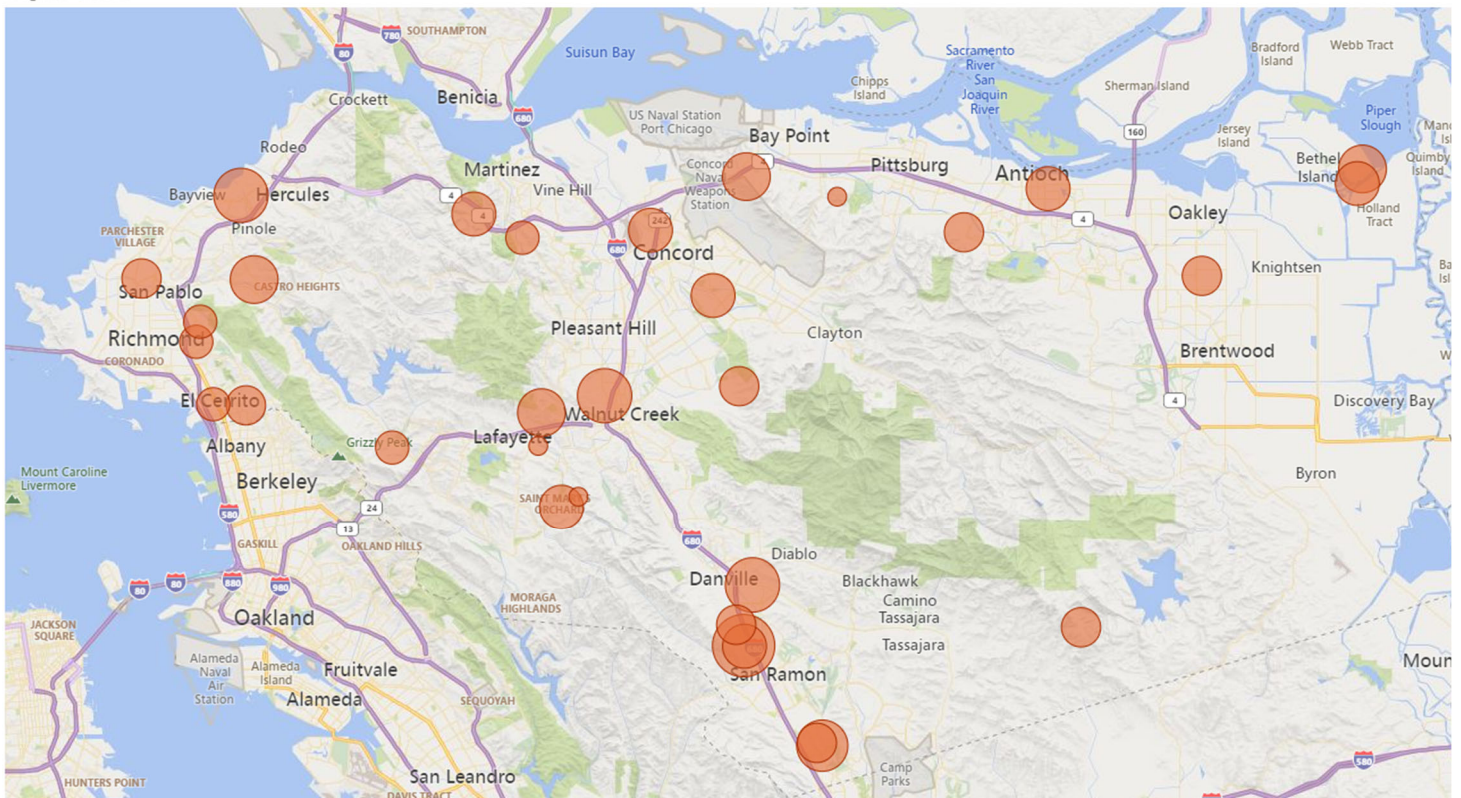
SRType ● Rats and Mice



Skunks

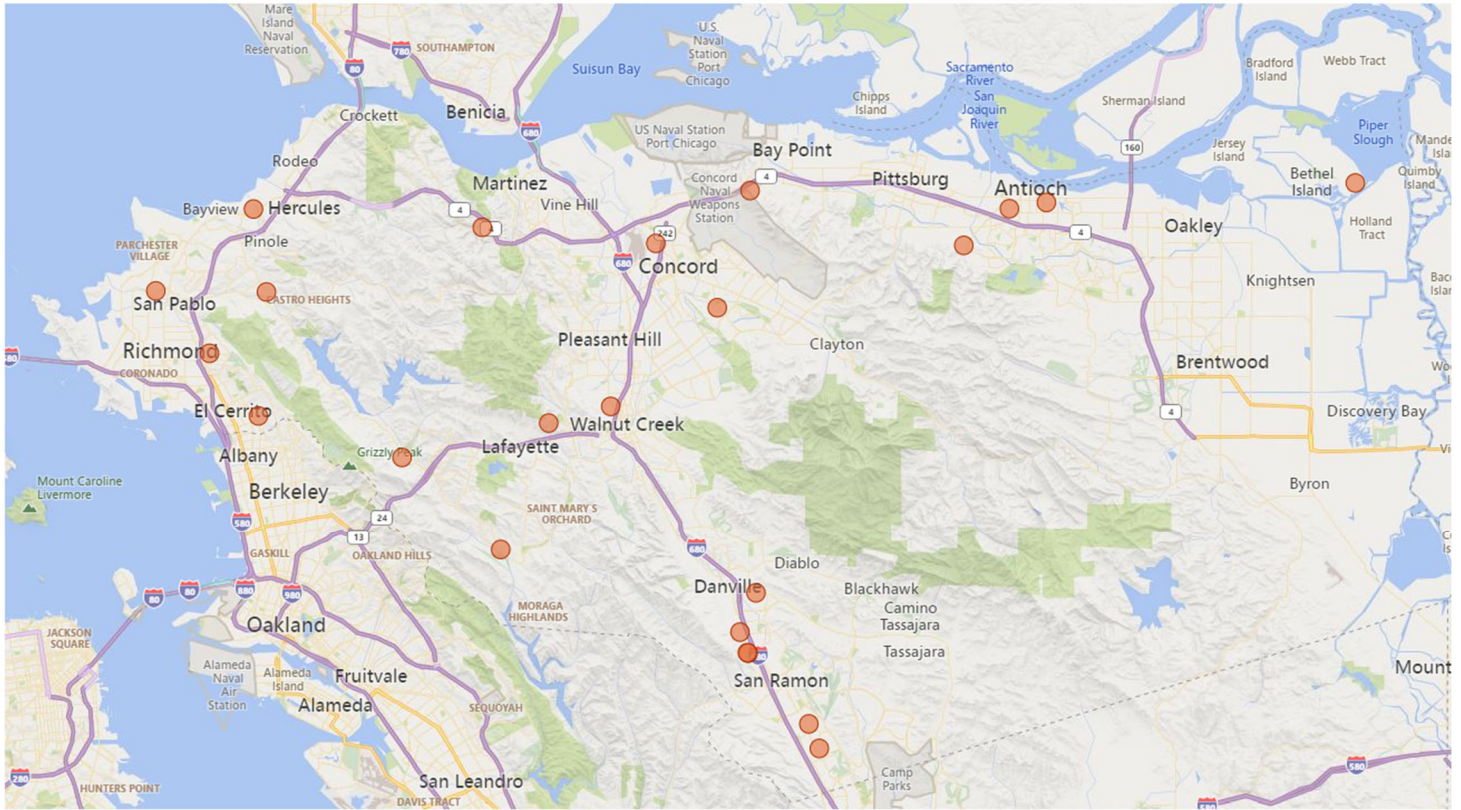
Program Actions:

Program ● Skunk



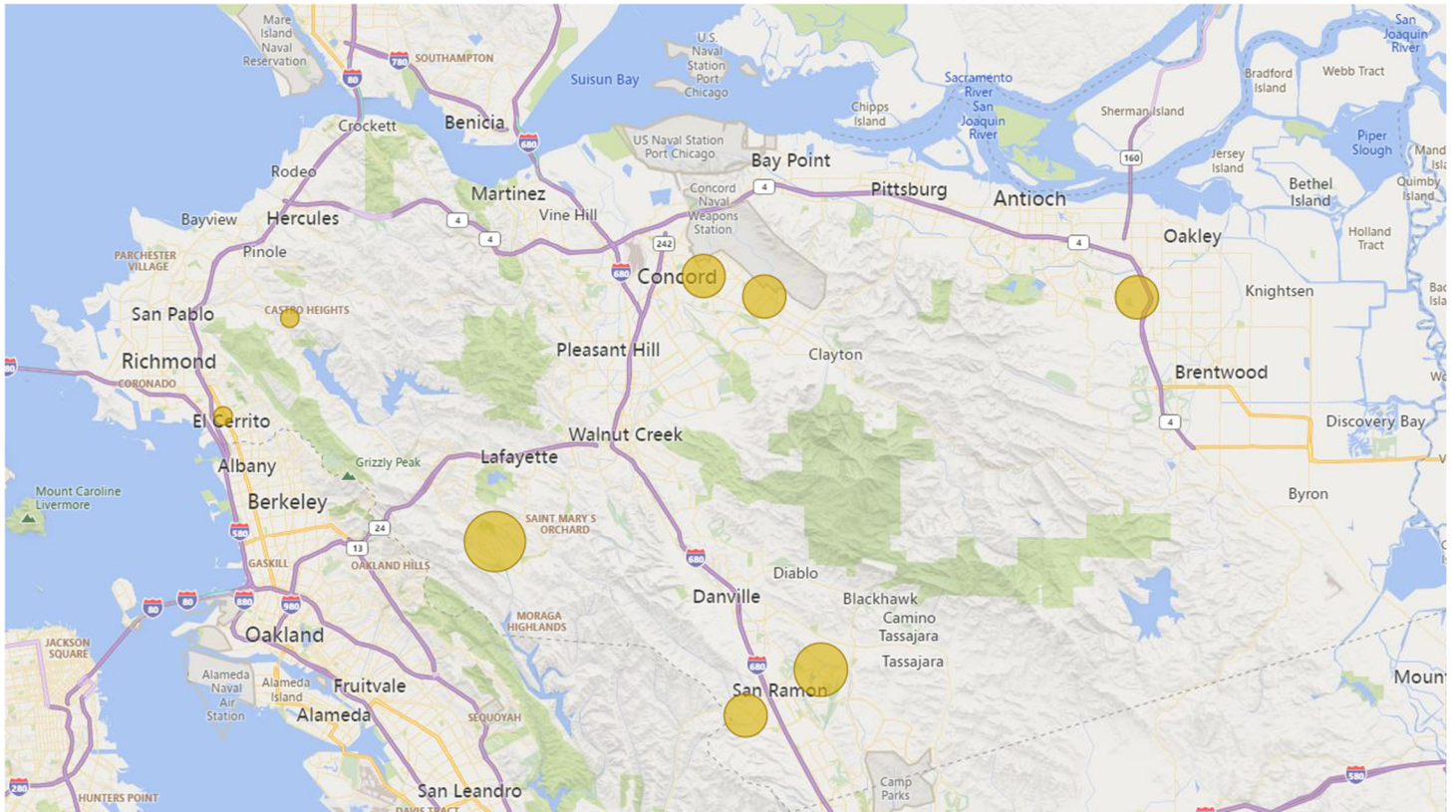
Service Requests: The District received 23 requests for skunk service

SRType ● Skunk



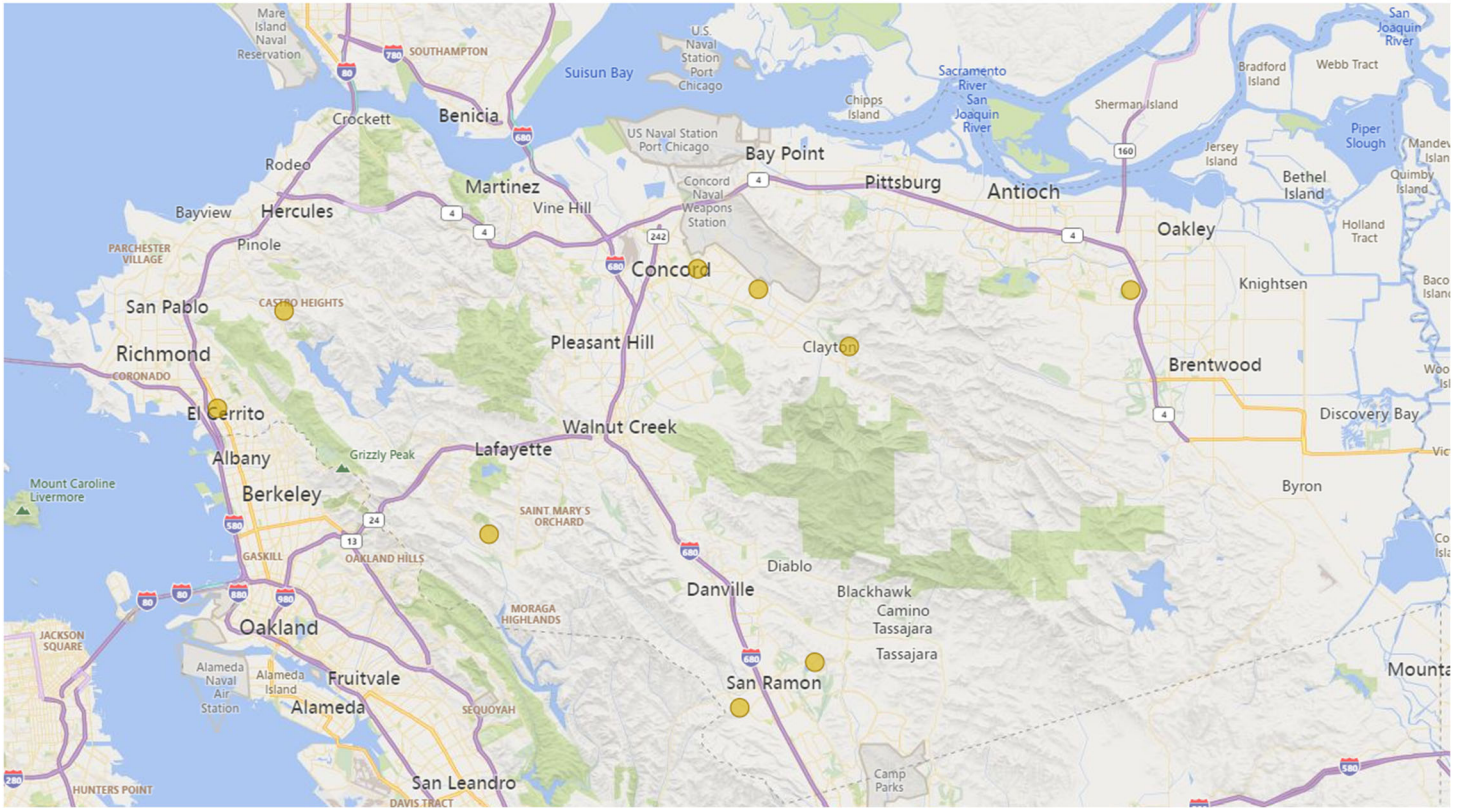
Yellowjackets Program Actions:

Program ● Yellowjackets



Service Requests: The District received 9 requests for yellowjacket service with 2 warranting treatment.

SRTYPE ● Yellowjackets



The District's first fully electric vehicle is in operation, and is currently under evaluation.



New Equipment: A-1 SuperDuty for WALs applications



Not a District vehicle, but a reminder that electric vehicles can provide warm nesting locations for rodents.



February 2024 Public Affairs Report to the Board of Trustees

Prepared February 29, 2024, by the Public Affairs Team

Presentations & Events

- In February 2024, Public Affairs Director Nola Woods provided a presentation to the Clayton City Council after a request from Mayor Jim Dias for more information about mice in Clayton.
- Public Affairs Director Nola Woods also participated in the annual MVCAC Legislative Advocacy Day in Sacramento, meeting with lawmakers and their representatives to discuss issues important to mosquito and vector control districts.
- Information and Technology Officer Andrew Pierce provided information on the District's services at the Martinez Senior Health Fair.

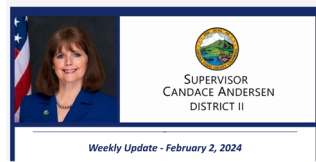


News Coverage

- February 1: <https://www.kron4.com/news/bay-area/rain-fuels-rise-of-mice-rats-in-east-bay-homes/>



- In addition to the news coverage, two members of the Contra Costa County Board of Supervisors included the District's messaging on the increase in rats and mice in Contra Costa County largely due to the increase in habitat and food created by the large amounts of rain we've received over the 2023/2024 winter season.



Advertising

- As of February 2024, the District concluded this fiscal year’s print advertising; however, the District’s online advertising continues with information regarding the District’s rabies risk reduction (skunk) program appearing in February.



- The Brentwood Press is a physical publication that reaches Brentwood, Discovery Bay, Oakley, and Antioch.

Social Media

The District uses a combination of Twitter, Nextdoor, Facebook, and Instagram to conduct District outreach on social media.

Twitter (X) Activity — Account @CCMosquito Yearly Comparisons

February 2024 Twitter/X Activity	February 2023 Twitter/X Activity
1438 Followers	1431 Followers
11 Tweets	4 Tweets
697 Impressions	389 Impressions
15 Likes	1 Likes
12 Link Clicks	2 Link Clicks
0 Profile Clicks	0 Profile Clicks
0 Media Views	0 Media Views
0 Replies	0 Replies
43 Engagements	5 Engagements
7 Retweets	1 Retweets
1 Profile Visits	0 Profile Visits
0 Mentions	0 Mentions
2 Detail Expands	1 Detail Expands

Most Popular @ccmosquito Tweet — February 9, 2024

- 262 Impressions
- 10 Likes
- 1 Profile Visit
- 12 Link Clicks



Nextdoor Activity Contra Costa Mosquito and Vector Control District - Local Agency

Overall, as of February 29, 2024, there are:

- 574,284 members
- 306,790 claimed household
- 1,006 neighborhoods

The District’s Nextdoor Activity February 2024

- 7 Posts
- 160 Reactions
- 242,014 Impressions

Most Popular Nextdoor Post — February 2, 2024

- 36 Reactions
- 60,630 Impressions



Facebook Activity — Account @CCMosquito Yearly Comparisons

February 2024 Facebook Activity

- 46 Followers
- 7 Posts
- 19 Likes
- 0 Loves
- 1,378 Post Reach
- 924 Post Impressions
- 16 Shares
- 11 Other Clicks
- 11 Comments
- 16 Link Clicks
- 115 Post Engagement
- 58 3-Second Video View
- 5 Photo view

February 2023 Facebook Activity

- 23 Followers
- 8 Posts
- 16 Likes
- 1 Love
- 1 Wow
- 992 Post Reach
- 1,064 Post Impressions
- 10 Shares
- 0 Other Clicks
- 0 Comments
- 16 Link Clicks
- 0 Post Engagements
- 0 3-Second Video Views
- 0 Photo view

Most Popular @ccmosquito Facebook Post — February 9, 2024

364 Impressions
344 Post Reach
8 Likes
5 Shares
3 Other Clicks
12 Link Clicks



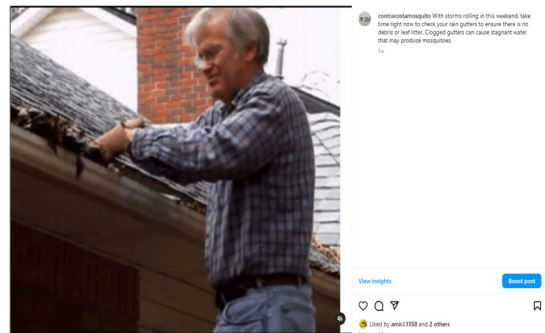
Instagram Activity — Account @contracostamosquito

February 2024 Instagram Activity

132 Followers
7 Posts
33 Likes
1 Save
484 Post Reach
256 Impressions
32 Engagement
322 Video plays
6 Shares
8 Profile Visits

Most Popular @contracostamosquito Instagram Post — February 15, 2024

209 Reach
261 Video Plays
3 Likes
3 Share



Publications

- **Total Constant Contact Subscribers**
 - Constant Contact is how the District distributes Mosquito Bytes newsletters, Employee Newsletters, Adult Mosquito Control Notifications, and News Releases.
 - February 2024
 - 3,025 Subscribers
 - February 2023
 - 2,922 Subscribers

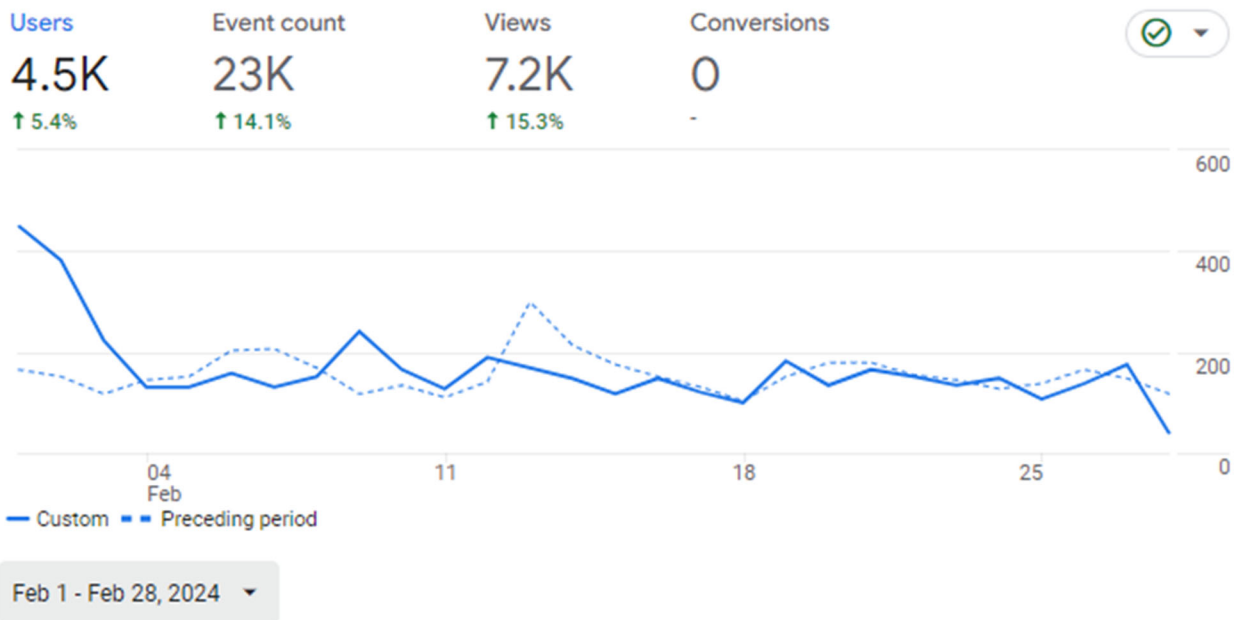
Website Statistics

- Website Terminology

Terms - Website Statistics

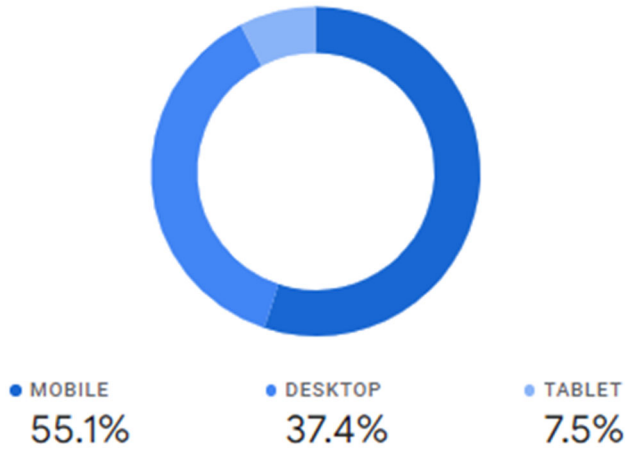
- **Users:** Person visiting the website
- **New Users:** New person who, according to the website data, has never visited the website before
- **Sessions:** A group of user interactions with the website that take place within a given time frame.
- **Number of Sessions per User:** The total number of sessions divided by the total number of users.
- **Pageviews:** An instance of a page being loaded (or reloaded) in a browser. Pageviews is a metric defined as the total number of pages viewed.
- **Pages/Sessions:** Average of the individual pages visited and individual sessions per user.
- **Avg. Session Duration:** Average length of each session
- **Bounce Rate:** Single-page sessions divided by all sessions, or the percentage of all sessions on the website in which users viewed only a single page.

- Overview of Website Usage February 1-28, 2024



- **Device Preference February 1-28, 2024** (On what device do people visit)

Users by Device category



- **Top 10 Pages Viewed - February 1-28, 2024**

		↓ Views	Users	Views per user	Average engagement time
		7,241 100% of total	4,460 100% of total	1.62 Avg 0%	31s Avg 0%
1	/	3,714	2,942	1.26	9s
2	/employment-opportunities	703	508	1.38	20s
3	/request-services	525	378	1.39	25s
4	/mites	503	420	1.20	1m 37s
5	/about-us	176	124	1.42	49s
6	/frequently-asked-questions-627f071	102	89	1.15	47s
7	/district-transparency	93	42	2.21	27s
8	/contact-us	81	63	1.29	1m 01s
9	/services-and-programs	70	50	1.40	57s
10	/ccmad-financing-corporation	67	66	1.02	0s

Customer Service Program

- **Physical survey cards**
 - Up to 30 are sent out each week, year-round to county residents at random
 - The postage-paid cards are sent two weeks after the initial service request

- **“Contact Us” form via the District website**
 - Residents can provide questions, comments, and concerns at any time via [the District website](#).
 - Messages are received in real-time.
 - The Public Affairs staff reviews all incoming online comments from residents and responds as deemed appropriate.

- **Examples of February 2024 Online “Contact Us” submitted comments**
 - Inquiry re: Issue with rats and mice
 - Inquiry re: Employment verification
 - Inquiry re: Request for tick and lyme disease information
 - Inquiry re: Use of wolbachia/sterile insect technology
 - Inquiry re: Reporting a neglected pool
 - Inquiry re: Ravens
 - Inquiry re: Information specific to dye testing to detect rats in pipes

- **Examples of February 2024 Survey Card Responses:**

“The employee did direct me to another agency and I appreciated the information.”

“Very professional, great attitude, and examined and explained thoroughly. We love him. Great hire!”

“I was provided an update within three hours of calling for a service request. Excellent service! Outstanding!”

“Very helpful. He spent a lot of time at our home and gave us great tips as to what to do about our rat problem.”

“Everything was great and easy.”