

**AGENDA**  
1093<sup>rd</sup> MEETING OF THE BOARD OF TRUSTEES  
OF THE ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT  
AUGUST 11TH, 2021

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TIME: 5:00 P.M.  
PLACE: Teleconference Only, **see below**  
TRUSTEES: P. Robert Beatty, President, City of Berkeley  
Subru Bhat, Secretary, City of Union City  
Cathy Roache, County-at-Large  
Wendi Poulson, City of Alameda  
Preston Jordan, City of Albany  
Shawn Kumagai, City of Dublin  
City of Emeryville, vacant  
George Young, City of Fremont  
Elisa Márquez, City of Hayward  
Steven Cox, City of Livermore  
Eric Hentschke, City of Newark  
Jan O. Washburn, City of Oakland  
Andrew Mingst, City of Piedmont  
Julie Testa, City of Pleasanton  
Victor Aguilar, City of San Leandro

1. Call to order.
2. Roll call.
3. President Beatty invites any member of the public to speak at this time on any issue relevant to the District (Each individual is limited to three minutes).
4. Approval of the minutes of the 1092<sup>nd</sup> Regular Meeting held July 14<sup>th</sup>, 2021 (**Board action required**).
5. Election of vacant Board Officers: (**Board action required**)
  - a. Nominees: Secretary Bhat for Vice-President & Trustee Aguilar for Secretary
6. Presentation on Vector Abatement Authority by Richard P. Shanahan, representing the law firm Bartkiewicz, Kronick & Shanahan (Information only).
7. Financial Reports as of July 31<sup>st</sup>, 2021: (Information only).
  - a. Check Register
  - b. Income Statement
  - c. Investments, reserves, and cash report
  - d. Balance Sheet
8. Presentation of the Monthly Staff Report (Information only).
9. Presentation of the Manager's Report (Information only).
  - a. 8/2/21 memo sent to staff regarding indoor face masking mandate

- b. CSDA Annual Conference (in-person): Monday, August 30<sup>th</sup> – Thursday, September 2<sup>nd</sup> at the Monterey Conference Center.
- c. Update on EPA Experimental Use Permit (CA) Public Comment Period
- d. Thursday December 2<sup>nd</sup> AB 1825 training at ACMAD facility for staff, also open for Trustees
- e. Training overdue: AB 1234 & AB 1825: Aguilar

10. Board President asks for reports on conferences and seminars attended by Trustees.

11. Board President asks for announcements from members of the Board.

12. Board President asks trustees for items to be added to the agenda for the next Board meeting.

13. Adjournment.

RESIDENTS ATTENDING THE MEETING MAY SPEAK ON ANY AGENDA ITEM AT THEIR REQUEST.

**Please Note: Board Meetings are accessible to people with disabilities and others who need assistance. Individuals who need special assistance or a disability-related modification or accommodation (including auxiliary aids or services) to observe and/or participate in this meeting and access meeting-related materials should contact Ryan Clausnitzer at least 48 hours before the meeting at 510-783-7744 or [acmad@mosquitoes.org](mailto:acmad@mosquitoes.org).**

**IMPORANT NOTICE REGARDING COVID-19 AND TELECONFERENCED MEETINGS:**

Based on the mandates by the Governor in Executive Order 33-20 and the County Public Health Officer to shelter in place and the guidance from the CDC, to minimize the spread of the coronavirus, please note the following changes to the District's ordinary meeting procedures:

- The District offices are not open to the public at this time.
- The meeting will be conducted via teleconference using Zoom. (See Executive Order 29-20)
- 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.

**HOW TO OBSERVE THE MEETING:**

**Telephone:** Listen to the meeting live by calling Zoom at **(669) 900-6833**  
Enter the **Meeting ID# 889 5777 1384** followed by the pound (#) key.

**Computer:** Watch the live streaming of the meeting from a computer by navigating to <https://us02web.zoom.us/j/88957771384>

**Mobile:** Log in through the Zoom mobile app on a smartphone and enter **Meeting ID# 889 5777 1384**

**HOW TO SUBMIT PUBLIC COMMENTS:**

**Before the Meeting:** Please email your comments to [acmad@mosquitoes.org](mailto:acmad@mosquitoes.org), write "Public Comment" in the subject line. In the body of the email, include the agenda item number and title, as well as your comments. If you would like your comment to be read aloud at the meeting (not to exceed three minutes at staff's cadence), prominently write "Read Aloud at Meeting" at the top of the email. All comments received before 12:00 PM the day of the meeting will be included as an agenda supplement on the District's website under the relevant meeting date and provided to the Trustees at the meeting. Comments received after this time will be treated as contemporaneous comments.

**Contemporaneous Comments:** During the meeting, the Board President or designee will announce the opportunity to make public comments and identify the cut off time for submission. Please email your comments to [acmad@mosquitoes.org](mailto:acmad@mosquitoes.org), write "Public Comment" in the subject line. In the body of the email, include the agenda item number and title, as well as your comments. Once the public comment period is closed, all comments timely received will be read aloud at the meeting (not to exceed three minutes at staff's cadence). Comments received after the close of the public comment period will be added to the record after the meeting.

## MINUTES

### 1092<sup>nd</sup> MEETING OF THE BOARD OF TRUSTEES OF THE ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT

July 14<sup>th</sup>, 2021

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TIME: 5:00 P.M.  
PLACE: *Zoom Teleconference Only*  
TRUSTEES: P. Robert Beatty, President, City of Berkeley  
Subru Bhat, Secretary, City of Union City  
Cathy Roache, County-at-Large  
Wendi Poulson, City of Alameda  
Preston Jordan, City of Albany  
Shawn Kumagai, City of Dublin  
City of Emeryville, vacant  
George Young, City of Fremont  
Elisa Marquez, City of Hayward  
Steven Cox, City of Livermore  
Eric Hentschke, City of Newark  
Jan O. Washburn, City of Oakland  
Andrew Mingst, City of Piedmont  
Julie Testa, City of Pleasanton  
Victor Aguilar, City of San Leandro

1. Board President Beatty called the regularly scheduled board meeting to order at 5:01 P.M.
2. Trustees Beatty, Bhat, Roache, Jordan, Kumagai, Young, Marquez, Cox, Hentschke, Washburn, Mingst, Testa and Aguilar were present on the Zoom conference. Trustee Poulson was absent.
3. Board President Beatty invited members of the public to speak on any issue relevant to the District. Information Technology Director Robert Ferdan was present for technical support. Field Operations Supervisor Joseph Huston was present to give a presentation on mosquito control products. Vector Biologist Jeremy Sette was present to record the minutes. No public comments were submitted.
4. Approval of the minutes of the 1091<sup>st</sup> meeting held June 9<sup>th</sup>, 2021.  
**Motion:** Trustee Hentschke moved to approve the minutes.  
**Second:** Trustee Aguilar  
**Vote:** motion carries: unanimous. Trustee Jordan abstained.
5. Appointment of a committee to nominate candidates for vacant District Officers.  
**Discussion:**  
President Beatty explained that former Emeryville Trustee Cooley had resigned, and new Board Officers would need to be nominated by a committee for election at a later meeting. Trustees Hentschke, Marquez and Kumagai were nominated to become the nominating committee, which they agreed.

**Motion:** Trustee Testa moved to nominate Trustees Hentschke, Marquez and Kumagai to the nominating committee

**Second:** Trustee Washburn

**Vote:** motion carries: unanimous.

6. Nominating Committee nominates a slate of District Board Officers for Board approval.

**Discussion:**

President Beatty explained that the next Board Officers in line for Officer positions would be Trustees Bhat and Aguilar. President Beatty suggested that formalizing an existing tradition via policy regarding choosing new Officers may be beneficial. The General Manager explained traditions and policies regarding choosing new Board Officers and will propose these changes along with other policy updates at a later meeting. President Beatty brought to the Board's attention the list of future Board officers. Trustee Jordan mentioned the City of Albany's tradition and policy related to this issue and was also in favor of a policy addition while also asking what the role of the Secretary and Vice-President are (reviewing and signing Board documents, backing up the President, respectively). The General Manager asked if Trustee Roache was the attendee calling in from an unlisted telephone number (yes). Trustee Cox asked how longevity affects becoming an officer (it depends on the longevity of the Trustees preceding them). Trustee Hentschke asked if there would be a motion on a Board Officer selection policy change (President Beatty noted that it was only under discussion at this point and that the Policy Committee could address the issue at a later meeting). President Beatty asked who was on the current Policy Committee (Trustee Bhat and Marquez noted they were members of the Committee) and noted that he was interested in joining. Trustee Kumagai agreed with the District's tradition and asked if the upcoming members were comfortable in accepting the nominations. Trustees Bhat and Aguilar both commented that they were comfortable with moving into the Officer positions. The General Manager thanked the Board for their patience with these changes.

**Motion:** Trustee Roache moved to approve Trustees Bhat and Aguilar as nominees for Board Vice-President and Secretary, respectively

**Second:** Trustee Washburn

**Vote:** motion carries: unanimous.

7. Presentation on mosquito control products by Field Operations Supervisor Joseph Huston.

**Discussion:**

The General Manager introduced Field Operations Supervisor Joseph Huston who gave a presentation on mosquito control products and fielded the following discussion. President Beatty asked about the benefits of mixing Bti with Bs (Bti will essentially act as the quick kill/knockdown component with a short residual, whereas Bs has a longer residual for a later kill). Trustee Jordan asked a question in the group chat at 5:40 P.M. "Are the bacteria remain inverted in the environment or do they 'wake up' and commence reproducing? Extending their effectiveness?" (Bti is a derivative that is removed from the environment quickly, whereas Bs may be recycled for a longer residual for extended mortality, and both are affected by UV light and other variables effecting their efficacy and longevity). Trustee Washburn commented on the excellent explanation by Huston and added an explanation of Bs's mode of action. Trustee Jordan also asked in the group chat at 5:45 P.M. "Nice. To confirm, Bs. becomes a living agent and Bti is essentially a chemical. Is Spinosad a live agent Bs or a bio-produced chemical?" (Bti is a spore, Bs can reproduce, and spinosad is a by-product and derivative of a bacterium). Trustee Jordan asked for clarification on Bs's mode of action (when it is ingested by larvae who in turn die, the by-product is still in the environment for a limited time to be ingested by other larvae). Trustee Washburn claimed that Bs does reproduce in the wild but disappears quickly. Trustee Jordan commented that it

would be great to have a product that did reproduce more in the environment for increased control. Vice-President Bhat mentioned in the group chat at 5:56 P.M. “Joseph keeps saying ‘FDA Approved’. I don’t think the FDA approves pesticides. It must be the EPA approval he is talking about”. Huston clarified that he meant EPA, not FDA and Trustee Bhat added in the group chat “Excellent presentation, Joseph. Many thanks”. President Beatty added to the group chat at 5:56 P.M. “Agreed!! Thank you, Joseph!” Trustee Hentschke said in the group chat at 6:00 P.M. “Thanks you, Joseph! It’s nice to be able to explain our strategy with the public!” Trustee Mingst added at 6:00 P.M. “Clear and concise, thanks”. Trustee Jordan added to the group chat at 6:01 P.M. “That was great! I feel prepared to answer those questions the President mentioned he gets”. Trustee Washburn additionally added at 6:01 P.M. “Excellent presentation, Joseph. Many thanks”. Trustee Jordan asked how the IGR’s are engineered (chemical process that mimics a juvenile insect hormone). Trustee Washburn mentioned the active ingredient, Methoprene, how there are different juvenile hormones, and that IGR’s are a good rational approach to the mosquito problem. Trustee Roache gave a background of her agency’s relation to regulate pesticide applications and commended the District’s management and field employees for their great work in abiding by the pesticide laws and regulations.

8. Financial Reports as of June 30<sup>th</sup>, 2021.

**Discussion:**

The General Manager presented the Financial Reports as of June 30<sup>th</sup>, 2021.

9. Presentation of the Monthly Staff Report.

**Discussion:**

The General Manager turned it over to Field Operations Supervisor Joseph Huston who gave the Operations Report. Trustee Jordan asked in the group chat at 6:08 P.M. “What processes are used to identify the pools for noticing”. Huston answered that private pilots have been hired since around 2007 to take aerial imagery in identifying unmaintained swimming pools. The General Manager noted that per District policy, drones will not be used to fly over homes and noted that the unmaintained swimming pool process will be explained in more depth at a future meeting. Trustee Jordan added in the group chat at 6:10 P.M. “Got it on the drone usage. Excellent on application of deep learning image processing”. The General Manager noted that the law firm contract payment was for reviewing a multi-agency payment contract for environmental consulting and noted a typo on the letterhead that he will update. Trustee Jordan asked in the group chat at 6:16 P.M. “What is the treatment approach for a water body the size of Del Valle at higher water that stores water destined for potable? Seems a challenge”. Huston answered that most of the lake is open water and filled with fish, so there is not much mosquito habitat; however, when the water rises into a few inlets that are conducive to mosquito breeding, a mosquito in that area, *Aedes vexans*, moves through their life cycle quickly and can be difficult to predict and control.

10. Presentation of the Manager’s Report.

**Discussion:**

The General Manager presented the Manager’s Report and fielded the following discussion. The General Manager congratulated Field Operations Supervisor Joseph Huston on thirty years of service, relayed his appreciation for his service, his excellent representation of District values, and presented him with the District’s 30 year anniversary golden pin. The Board thanked Huston and congratulated him. The General Manager asked if any Trustee is interested in the annual conference to let him know.

11. Board President Beatty asked for reports on conferences and seminars attended by Trustees. None.
12. Board President Beatty asked for announcements from the Board. None.
13. Board President Beatty asked trustees for items to be added to the agenda for the next Board meeting. The General Manager noted that the Board Officer elections will occur in August and that he would be working with an attorney to present on mosquito abatement legal procedures. President Beatty asked if the election would be to elect those nominated before (The General Manager answered, yes). Trustee Jordan asked if the cemetery project would be brought up at a future meeting (The General Manager answered, yes).
14. The meeting adjourned at 6:38 P.M.

**Respectfully submitted,**

Approved as written and/or corrected  
at the 1093<sup>rd</sup> meeting of the Board of  
Trustees held August 11<sup>th</sup>, 2021

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P. Robert Beatty, President  
BOARD OF TRUSTEES

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Victor Aguilar, Secretary  
BOARD OF TRUSTEES

## Alameda County MAD - Vector Abatement Power Overview

Richard P. Shanahan  
Bartkiewicz, Kronick & Shanahan  
August 11, 2021

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## Overview purpose

- Inform trustees about available legal authority and strategies for vector control and abatement
  - Landowner responsibility
  - District authority
  - Right of access
  - Inspection/abatement warrants
  - Nuisance abatement proceedings

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## What's a public nuisance?

H&S Code objective is to avoid "public nuisance," which means:

1. Altered property that supports development, attraction, or harborage of vectors
  2. Water that is a breeding place for vectors
  3. Other activity that supports development, attraction, or harborage of vectors, or that introduces or spreads vectors
- (H&S Code 2002(j))

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## Nuisance definition includes presumption

- Presence of vectors in developmental stages (e.g., pupa, larva, eggs) in water or on property "is prima facie evidence that the property is a public nuisance"
- Prima facie means it's plain or presumed, unless disproved by other evidence

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## Two key H&S Code parts to vector control and avoiding public nuisance

1. Landowner responsibility to avoid public nuisance
2. District authority to inspect and control vectors

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## Landowner responsibility

- Landowner obligation to keep and maintain property so as to avoid public nuisance:
  - "The person or agency claiming ownership, title, or right to property or who controls the diversion, delivery, conveyance, or flow of water **shall be responsible** for the abatement of a public nuisance that is caused by, or as a result of, that property or the diversion, delivery, conveyance, or control of that water." (H&S Code 2060(b))

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## Broad District powers

- District may
  - Conduct vector-related surveillance programs
  - Take proper action to (1) prevent the occurrence of vectors and vectorborne diseases, and (2) abate or control vectors and vectorborne diseases
  - Treat property with physical, chemical, or biological control measures
  - Employ labor and enter into contracts
  - Pursue nuisance abatement action (H&S Code 2040-2067)

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## Powers include right of access to property

- District may enter any property without hindrance or notice to
  - Inspect to determine the presence of vectors or public nuisance
  - Abate public nuisance, either directly or through nuisance abatement
  - Control vectors and treat property with physical, chemical, or biological control measures (H&S Code 2053(b))
- Misdemeanor if hinder or obstruct (H&S Code 2047)

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## Right of access -- constitutional limitation

- But, right of access is "subject to the limitations of the United States Constitution and the California Constitution"
- U.S. Const., 4th Am. & Cal. Const., art. I, § 13 protect people against unreasonable searches and seizures
- District cannot enter property entitled to 4th Am. protection without consent or court-approved warrant

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## Property entitled to 4th Am. protection

- General rule:
  - Any area where landowner or occupant has legitimate expectation of privacy that society recognizes as reasonable
  - Protects people not places
- Examples
  - Fenced residential backyard
  - Enclosed, controlled area not open to public
  - Fenced area where owner/occupant has posted signs and installed gates

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## Property not entitled to 4th Am. protection

- Examples:
  - Open and accessible field, riparian area, other open-space area, or undeveloped land
  - Unfenced front yard
  - Open and accessible common area
  - Vacant, open, and abandoned property
  - Plain view search from adjacent property

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## Options to obtain access to 4th Am.-protected property

1. Consent
  - of the landowner (for owner-occupied property)
  - of resident, tenant, or occupant (for leased property)
  - of employer, e.g., management personnel (for business property)
2. Court-issued inspection and abatement warrant

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## Inspection and abatement warrant process

- District may request court to issue inspection and abatement warrant to authorize access (H&S Code 2053(a)); procedure:
  1. Seek consent; document attempts and refusal
  2. Prepare application, declaration (which must state factual basis to expect vectors), and proposed warrant
  3. Schedule and hold ex parte (no notice or opposition) court hearing
    - Some courts don't require hearing

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## Inspection and abatement warrant process- continued

4. Judge issues/signs warrant
5. District gives 24-hour notice to landowner or occupant
6. District performs inspection/abatement activities authorized by warrant
7. Return warrant to issuing judge

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## Nuisance abatement and vector control choice

- District has two fundamental choices or approaches when controlling vectors:
  1. Control vectors directly through District staff and contract services
    - Most common; at District cost
  2. Control through nuisance abatement proceeding against landowner
    - Time-consuming and cumbersome; opportunity to recoup costs

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## Nuisance abatement authority

- Landowner responsibility to avoid public nuisance
- District, after notice and hearing, may order landowner to abate nuisance
- If landowner fails to timely abate nuisance, then District may:
  - Abate the nuisance and recoup its abatement costs from the landowner
  - Enforce nuisance abatement obligation through civil penalties (up to \$1,000/day for noncompliance) (H&S Code 2060-2067)

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## Nuisance abatement process

1. Informal pre-abatement demand; document attempts and refusal
2. Investigate existence of public nuisance, compile supporting proof, and prepare staff report
  - Need substantial evidence to support nuisance determination
  - May need warrant
3. Prepare, approve, and serve notice to abate
  - Several statutory requirements, including deadlines

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## Nuisance abatement process

4. Board conducts abatement hearing
  - It's a quasi-judicial proceeding
  - District has burden of proving nuisance
5. Board decision by resolution confirming nuisance and ordering abatement
  - Options: authorize District to abate nuisance if landowner fails to; impose civil penalty; provide notice that District abatement costs and/or civil penalties will be imposed and collected
6. Provide resolution/order to landowner

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## Nuisance abatement process

7. Monitor compliance
  - May need warrant
8. Pursue enforcement if not timely compliance
  - Abatement by District
  - Track, bill, and collect District abatement costs
  - Impose/collect civil penalties
  - May collect costs and penalties through lien against property and collection on tax roll

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## Government-owned property

- State and local government-owned land is subject to landowner responsibility, right of access, and nuisance abatement provisions
- But, cannot lien government land or collect costs through tax roll
- Inter-agency disputes subject to appeal to State Department of Public Health
- District lacks authority over federal government property

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Questions?

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Alameda County Mosquito Abatement Dist.  
**Check Register**  
For the Period From Jul 1, 2021 to Jul 15, 2021

Filter Criteria includes: Report order is by Date.

<b>Check #</b>	<b>Date</b>	<b>Payee</b>	<b>Amount</b>
2740	7/14/21	Adapco	17,180.62
2741	7/14/21	Airgas	782.73
2742	7/14/21	Cintas	529.85
2743	7/14/21	Clarke	4,475.17
2744	7/14/21	Coverall North America, Inc.	495.00
2745	7/14/21	Delta Dental	4,938.10
2746	7/14/21	Grainger	45.61
2747	7/14/21	Yihong Gu	50.00
2748	7/14/21	Industrial Park Landscape Maintenance	226.00
2749	7/14/21	J&C Safety 1st Fire Protection Inc	450.00
2750	7/14/21	MVCAC	10,500.00
2751	7/14/21	NBC Supply Corp	198.99
2752	7/14/21	PFM Asset Management	1,997.80
2753	7/14/21	Port of Oakland	1.00
2754	7/14/21	Robles, Michelle	2,099.70
2755	7/14/21	Techniclean	170.23
2756	7/14/21	The Hartford	187.74
2757	7/14/21	U.S Bank Corporate Payment System	15,978.64
2758	7/14/21	Veseris	14,868.49
2759	7/14/21	Voya Institutional Trust Company	179.93
2760	7/14/21	Waste Management of Alameda County	288.82
ACH	7/14/21	Alameda County Mosquito Abatement Dist (Payroll)	83,606.09
ACH	7/14/21	CalPERS Retirement	15,089.60
ACH	7/14/21	CalPERS Retirement	258,530.00
ACH	7/14/21	CalPERS Retirement	2,549.00
ACH	7/14/21	CalPERS 457	3,159.50
<b>Total Expenditures - July 15, 2021.</b>			<b>438,578.61</b>

Alameda County Mosquito Abatement Dist.  
**Check Register**  
For the Period From Jul 16, 2021 to Jul 31, 2021

Filter Criteria includes: Report order is by Date.

<b>Check #</b>	<b>Date</b>	<b>Payee</b>	<b>Amount</b>
2761	7/27/21	Airgas	738.63
2762	7/27/21	AT&T	73.92
2763	7/27/21	Bay Alarm	534.73
2764	7/27/21	Beck's Shoes	189.54
2765	7/27/21	CCCMA Occupational Clinic	190.00
2766	7/27/21	Cintas	182.82
2767	7/27/21	City of Hayward FARP	16.00
2768	7/27/21	Clarke	11,354.09
2769	7/27/21	Coverall North America, Inc.	495.00
2770	7/27/21	Delta Dental	3,541.42
2771	7/27/21	Finn, Richard	40.88
2772	7/27/21	Grainger	12.98
2773	7/27/21	KBA Docusys	505.33
2774	7/27/21	Leading Edge Associate, Inc.	23,000.00
2775	7/27/21	Long, Rick	40.88
2776	7/27/21	NBC Supply Corp	991.35
2777	7/27/21	Lowe, Carol	40.88
2778	7/27/21	PG&E	26.28
2779	7/27/21	Pitney Bowes	520.99
2780	7/27/21	Regional Government	175.00
2781	7/27/21	Verizon	394.55
2782	7/27/21	Voya Institutional Trust Company	179.93
2783	7/27/21	VSP	710.23
2784	7/27/21	Waste Management of Alameda County	288.82
2785	7/27/21	WEX Bank	5,205.63
ACH	7/27/21	Alameda County Mosquito Abatement Dist (Payroll)	83,821.06
ACH	7/27/21	CalPERS Health	38,034.72
ACH	7/27/21	CalPERS Retirement	14,561.72
ACH	7/27/21	CalPERS 457	3,052.64
<b>Total Expenditures - July 31, 2021.</b>			<b>188,920.02</b>

**Alameda County Mosquito Abatement District**  
**Income Statement**  
**July 31, 2021. (1 of 12 mth, 8%)**

<b>REVENUES</b>	<b>Actual 2019/20</b>	<b>Actual 2020/21</b>	<b>Current Month</b>	<b>Year to Date 2021/22</b>	<b>Budget 2021/22</b>	<b>Actual vs Budget</b>
<b>Total Revenue</b>	<b>\$ 4,986,220.87</b>	<b>\$ 5,150,753.15</b>	<b>\$ 692.00</b>	<b>\$ 692.00</b>	<b>\$ 4,765,864.00</b>	<b>0%</b>

<b>EXPENDITURES</b>	<b>Actual 2019/20</b>	<b>Actual 2020/21</b>	<b>Current Month <sup>2</sup></b>	<b>Year to Date 2021/22</b>	<b>Budget 2021/22</b>	<b>Actual vs Budget</b>
Salaries	\$ 1,970,928.74	\$ 2,029,103.97	\$ 183,093.64	\$ 183,093.64	\$2,236,282	8%
CalPERS Retirement	\$ 378,832.61	\$ 423,110.21	\$ 278,548.25	\$ 278,548.25	\$473,950	59%
Medicare & Social Security	\$ 29,651.04	\$ 27,866.82	\$ 3,087.58	\$ 3,087.58	\$33,062	9%
Fringe Benefits	\$ 465,466.14	\$ 502,898.39	\$ 47,412.21	\$ 47,412.21	\$579,596	8%
<b>Total Salaries, Retirement, &amp; Benefits</b>	<b>\$ 2,844,878.53</b>	<b>\$ 2,982,979.39</b>	<b>\$512,142</b>	<b>\$512,142</b>	<b>\$3,322,890</b>	<b>15%</b>
Clothing and personal supplies (purchased)	\$ 6,213.94	\$ 4,678.72	\$ 189.54	\$ 189.54	\$10,000	2%
Laundry service and supplies (rented)	\$ 10,648.44	\$ 9,124.98	\$ 538.22	\$ 538.22	\$15,000	4%
Utilities	\$ 25,962.21	\$ 15,421.56	\$ 603.92	\$ 603.92	\$17,000	4%
Communications-IT	\$ 80,735.47	\$ 71,771.02	\$ 394.55	\$ 394.55	\$112,400	0%
Maintenance: structures & improvements	\$ 16,678.86	\$ 20,261.51	\$ 461.50	\$ 461.50	\$35,000	1%
Maintenance of equipment	\$ 20,599.88	\$ 22,290.34	\$ 12.98	\$ 12.98	\$35,000	0%
Transportation, travel, training, & board	\$ 95,813.55	\$ 74,653.03	\$ 7,305.33	\$ 7,305.33	\$127,630	6%
Professional services	\$ 111,224.89	\$ 97,904.29	\$ 190.00	\$ 190.00	\$203,450	0%
Memberships, dues, & subscriptions	\$ 26,316.50	\$ 22,906.45	\$ 10,500.00	\$ 10,500.00	\$24,000	44%
Insurance - (VCJPA, UAS)	\$ 134,833.60	\$ 141,650.37	\$ -	\$ -	\$150,611	0%
Community education	\$ 23,283.51	\$ 26,317.23	\$ 50.00	\$ 50.00	\$39,500	0%
Operations	\$ 179,304.00	\$ 223,362.22	\$ 11,912.27	\$ 11,912.27	\$239,000	5%
Household expenses	\$ 14,817.21	\$ 15,882.05	\$ 1,045.73	\$ 1,045.73	\$17,350	6%
Office expenses	\$ 13,760.57	\$ 9,747.67	\$ 1,028.36	\$ 1,028.36	\$12,000	9%
Laboratory supplies	\$ 100,794.23	\$ 63,519.55	\$ 1,644.00	\$ 1,644.00	\$144,000	1%
Small tools and instruments	\$ 2,055.54	\$ 2,189.34	\$ -	\$ -	\$3,000	0%
<b>Total Staff Budget</b>	<b>\$ 863,042.40</b>	<b>\$ 821,680.33</b>	<b>\$ 35,876.40</b>	<b>\$ 35,876.40</b>	<b>\$1,184,941</b>	<b>3%</b>
<b>Total Operating Expenditures</b>	<b>\$ 3,707,920.93</b>	<b>\$ 3,804,659.72</b>	<b>\$ 548,018.08</b>	<b>\$ 548,018.08</b>	<b>\$4,507,831</b>	<b>12%</b>

1 - As of June 30, 2021. Unaudited

2 - Total Operating Expenditures in current month do not match the check register due to accounts receivable, petty cash transactions, and expenses that were paid for in July but accounted for in Fiscal Year ended June 30, 2021.

**Alameda County Mosquito Abatement District**  
**Investment, Reserves, and Cash Balance Report**  
**July 31, 2021. (1 of 12 mth, 8%)**

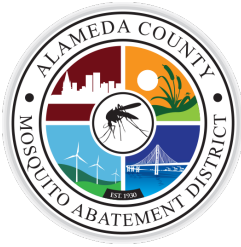
Account #	Investment Accounts	Beginning Balance	Deposits	Withdrawals	Interest Activity	Ending Balance
1004	LAIF	\$ 4,128,033.93	\$ -	\$ (626,000.00)	\$ 2,506.47	\$ 3,504,540.40
1005	OPEB Fund	\$ 5,295,027.43	\$ -	\$ -	\$ 67,758.78	\$ 5,362,786.21
1006	VCJPA Member Contingency	\$ 371,828.00	\$ -	\$ -	-	\$ 371,828.00
1008	CAMP: Repair and Replace	\$ 1,040,985.20	\$ -	\$ -	\$ 44.75	\$ 1,041,029.95
1009	CAMP: Public Health Emergency	\$ 526,220.70	\$ -	\$ -	\$ 22.62	\$ 526,243.32
1010	CAMP: Operating Reserve	\$ 1,944,330.24	\$ -	\$ -	\$ 83.58	\$ 1,944,413.82
1011	CAMP: Capital Reserve Fund	\$ 19,992.53	\$ -	\$ -	\$ 0.86	\$ 19,993.39
1012	PARS: Pension Stabilization <sup>1</sup>	\$ 1,833,021.75	\$ -	\$ -	\$ 16,315.69	\$ 1,849,337.44
<b>Total</b>		<b>\$ 15,159,439.78</b>	<b>\$ -</b>	<b>\$ (626,000.00)</b>	<b>\$ 86,732.75</b>	<b>\$ 14,620,172.53</b>
		Beginning Balance			Activity	Ending Balance
Cash Accounts				Withdrawals		
1001	Bank of America (Payroll Account) *	\$ 25,107.03			-	\$ 102,464.02
1002	Bank of The West (Transfer Account) *	\$ 386,992.25			-	\$ 273,141.00
1003	County Account	\$ 360,748.61	\$ -	\$ -	\$ 517.00	\$ 361,265.61
1013	Petty Cash	\$ 388.18			\$ (2.04)	\$ 386.14
<b>Total</b>		<b>\$ 773,236.07</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 514.96</b>	<b>\$ 737,256.77</b>

1- PARS - Pension Stabilization balance is as of June 30, 2021.

\* - Ending balance differs from beginning balance due to checks clearing the account.

Alameda County Mosquito Abatement  
Balance Sheet Comparison  
July

ASSETS	7/31/2021	7/31/2020	7/31/2019	Explanation
Current Assets				
Cash	\$ -	-	-	
Bank of America payroll	103,223.95	106,214.79	114,752.43	Current book balance, different from the ending balance shown on bank statement, due to outstanding deposits (will not match IRC page).
Bank of the West	329,179.80	300,484.71	843,087.05	" "
County	361,265.61	349,672.59	219,599.98	Current balance in County account.
Cash with LAIF	3,504,540.40	2,124,170.85	1,828,524.18	Current balance in LAIF (working capital) account.
VCJPA - Property Contingency	-	-	52,796.00	
VCJPA- Member Contingency	371,828.00	374,772.00	353,497.00	Reserve amount with VCJPA (updated quarterly)
CAMP - Repair and Replace	1,041,029.95	1,046,226.63	337,512.00	Reserve committed to repair or replace capital assets.
CAMP - Public Health Emergency	526,243.32	525,573.46	517,830.65	Reserve committed for public health emergencies.
CAMP - Operating Reserve	1,944,413.82	1,941,938.80	1,913,329.93	Reserve committed as an emergency rainy-day fund (= to 60% of current year expenses)
CAMP - Capital Reserve Fund	19,993.39	59,034.52	231,803.15	Reserve for current year capital assets or non-capital facility maintenance
PARS	1,849,337.44	1,674,095.84	1,068,621.96	PARS is no longer being reported stand-alone on the balance sheet, would only be reported on the balance sheet if it was a liability to the district.
Petty cash	386.14	491.15	503.50	To reimburse employees - under \$50
<b>Total Current Assets</b>	<b>10,051,441.82</b>	<b>8,502,675.34</b>	<b>7,481,857.83</b>	
Property and Equipment				
Acc Dep - equipment	(1,479,068.00)	(1,479,068.00)	(1,318,915.70)	Accumulated depreciation expense from date of purchase through current useful life, which reduces assets book values
Acc Dep - stru & improv	(2,484,430.30)	(2,485,267.00)	(2,349,631.01)	" "
Acc Dep - conts in progress	-	-	-	" "
Construction in progress	-	-	409,074.98	Accumulated cost of a project yet to be completed.
Equipment	1,751,859.00	1,751,859.00	1,619,670.10	Original cost of depreciable equipment item.
Structure/improvement	4,798,893.00	4,760,618.00	4,529,022.67	Original cost of depreciable structure/ improvement item.
Land	61,406.00	61,406.00	61,406.00	Original purchase price of owned land; will not change.
Total Property and Equipment	2,648,659.70	2,609,548.00	2,950,627.04	
Other Assets				
Net OPEB Asset	1,823,556.00	1,823,556.00	690,338.00	Amount reported on actuary report. Pre-paid amount (overfunded), still considered an asset to the district. The amount has not changed because we have not withdrawn or added to account in the current year.
Total Other Assets	1,823,556.00	1,823,556.00	690,338.00	
<b>Total Assets</b>	<b>\$ 14,523,657.52</b>	<b>\$ 12,935,779.34</b>	<b>\$ 11,122,822.87</b>	
<b>LIABILITIES AND CAPITAL</b>				
Current Liabilities				
Accounts payable	\$ 100,695.84	\$ 133,688.78	\$ 135,112.21	Invoices due but yet to be paid.
AP Credit Card	-	-	15,310.00	Current credit card purchases, no longer shows up on balance sheet due to credit card clearing out when credit card statement is paid.
Acc payroll/vacation	208,228.89	200,290.26	187,668.43	District's debt from employees' unused vacation time.
Def inflow - 75	931,786.00	931,786.00	49,810.00	Other post employment benefit cost. Projected but yet to be incurred. Actuary is suggesting what is going to happen but hasn't happened yet.
Def inflow pen defer GASB 68	289,664.00	289,664.00	192,480.00	Pension benefit cost projected but yet to be incurred. Actuary is suggesting what is going to happen but hasn't happened yet.
Defer outflow pen cont GASB 68	(1,056,534.00)	(1,056,534.00)	(1,208,279.00)	Payments into pension incurred but yet to be posted against the outstanding liability at a given point of time.
Net pension liability GASB 68	3,277,554.00	3,277,554.00	2,952,714.00	Unfunded pension accrued liability as estimated by an actuary as of a given point of time.
Total Current Liabilities	\$ 3,751,394.73	\$ 3,776,449.04	\$ 2,324,815.64	
Long-Term Liabilities				
Total Long-Term Liabilities				
<b>Total Liabilities</b>	<b>3,751,394.73</b>	<b>3,776,449.04</b>	<b>2,324,815.64</b>	
Capital				
Designated fund balances	4,440,057.25	4,440,610.19	4,763,137.19	Board approved reserves for designated purposes.
Investment in general fixed as	6,873,140.49	5,296,151.61	4,637,374.11	Value of fixed assets less accumulated depreciation and debt.
Net Income	(540,934.95)	(577,431.50)	(602,504.07)	Net Income = Gross Income - Expenses
Total Capital	10,772,262.79	9,159,330.30	8,798,007.23	Sum of designated fund balances, investment in general fixed assets and net income.
<b>Total Liabilities &amp; Capital</b>	<b>\$ 14,523,657.52</b>	<b>\$ 12,935,779.34</b>	<b>\$ 11,122,822.87</b>	



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## MONTHLY STAFF REPORT –1093

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#### Pleasanton

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#### San Leandro

#### Ryan Clausnitzer

General Manager

### 1. OPERATIONS REPORT

In July, two high-tide events induced eggs of *Aedes dorsalis* to hatch. Operations staff, with assistance from seasonal staff, the Mechanical Specialist, and the ACMAD lab, conducted treatments by hand and with the A-1 Super Duty mist blower in several tidal marsh sources. Based on post-treatment inspections, lab adult mosquito trapping, and service request data, the treatments were effective. Despite numerous high-tide events this season, control measures have proven highly effective to date. This season, the district has only received a couple of calls that were potentially caused by *Ae. dorsalis*. Operations staff are planning for several more high-tide events before the season for this species ends this year.

A significant portion of July was spent inspecting and treating sources county-wide for *Culex pipiens*, *Culex tarsalis*, and *Culex erythrothorax*. These three species are competent vectors of West Nile virus (WNV), and their control is critical in preventing large numbers of competent mosquito vectors of WNV from persisting in the environment. Inspections and treatments were conducted in creeks, canals, freshwater marshes, sewer treatment facilities, unmaintained swimming pools, storm drains, and catch basins. Several thousand catch basins were treated by operations staff and seasonal employees. Many of these treatments used Sumilarv® 0.5G, our newest IGR (as discussed at July's Board of Trustees meeting). Based on ACMAD studies as well as other studies nation-wide, the expectation is that the CB's treated with this material should prevent adult mosquito emergence throughout the rest of this season. Control efforts for all three of the aforementioned *Culex spp.* will continue until the temperatures drop and the first rainfall events of autumn flush many of these sources, sending remaining female adults into sequestration until spring. Continued pressure on the larvae of these species is a big factor in ACMAD's WNV control program. Lower numbers of adult females of these species in the environment has a major impact on the potential for WNV transmission. In Alameda County, we often see WNV activity later in the season. To date, no WNV positive birds nor adult mosquitoes have been detected by the ACMAD lab. Operations will remain vigilant for these species for the next few months to come.

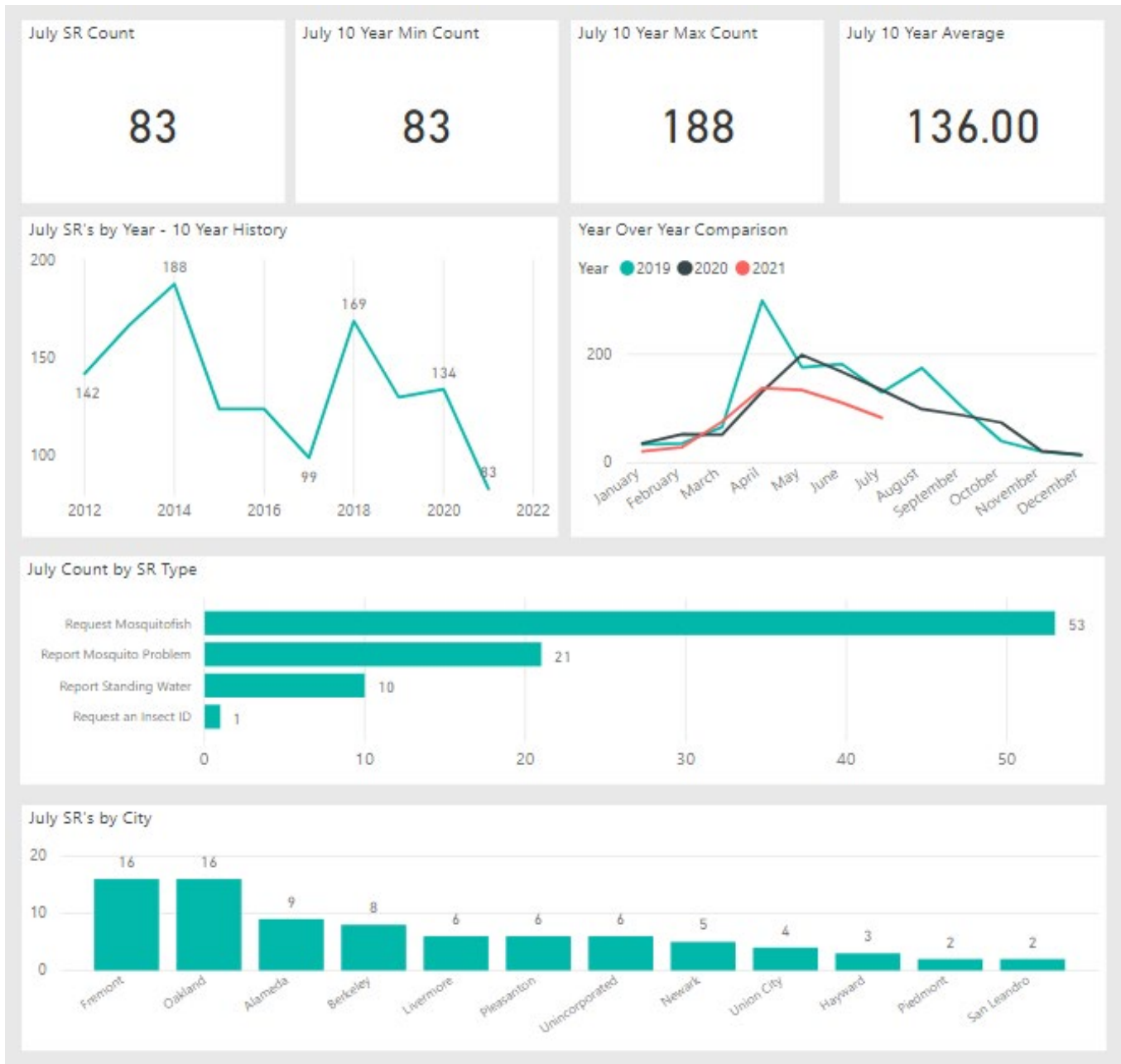
For the second month in a row, the District received the lowest number of requests for service from the public than have been received in the corresponding months for ten years prior. In July, the District received eighty-three requests for service. Of the requests received, fifty-three were requests for mosquito fish for backyard ponds, livestock watering troughs, and unmaintained swimming pools. Of the twenty-one requests to "report a mosquito problem", ten were attributable to other "mosquito-like" insects, or the request did not yield any adult or larval mosquitoes during inspections or trapping. Five of the calls implicated *Culiseta incidens* with sources located on or adjacent to the properties of the callers. There were also five calls attributable to *Cx. pipiens*, including one that involved water from leaks under the residence. The remainder of these calls led to discovery of larvae of *Anopheles punctipennis*. Though not usually found in significant numbers in our county, this species is a competent vector of malaria (as it's common name the "woodland malaria mosquito" implies). Inspections and treatments for this species will continue to be conducted in August as well. The preferred habitat for this species is on top of algae mats that form in slower moving parts of creeks and streams later in the season. ACMAD also received ten calls to "report standing water". These calls mostly involved containers, fountains, ponds, water in street gutters, catch basins, and unmaintained swimming pools. The final request for service was a request for a miscellaneous insect identification, a service not often utilized by the public but one that is helpful, informative, and appreciated.

Field Operations Supervisor  
Joseph Huston

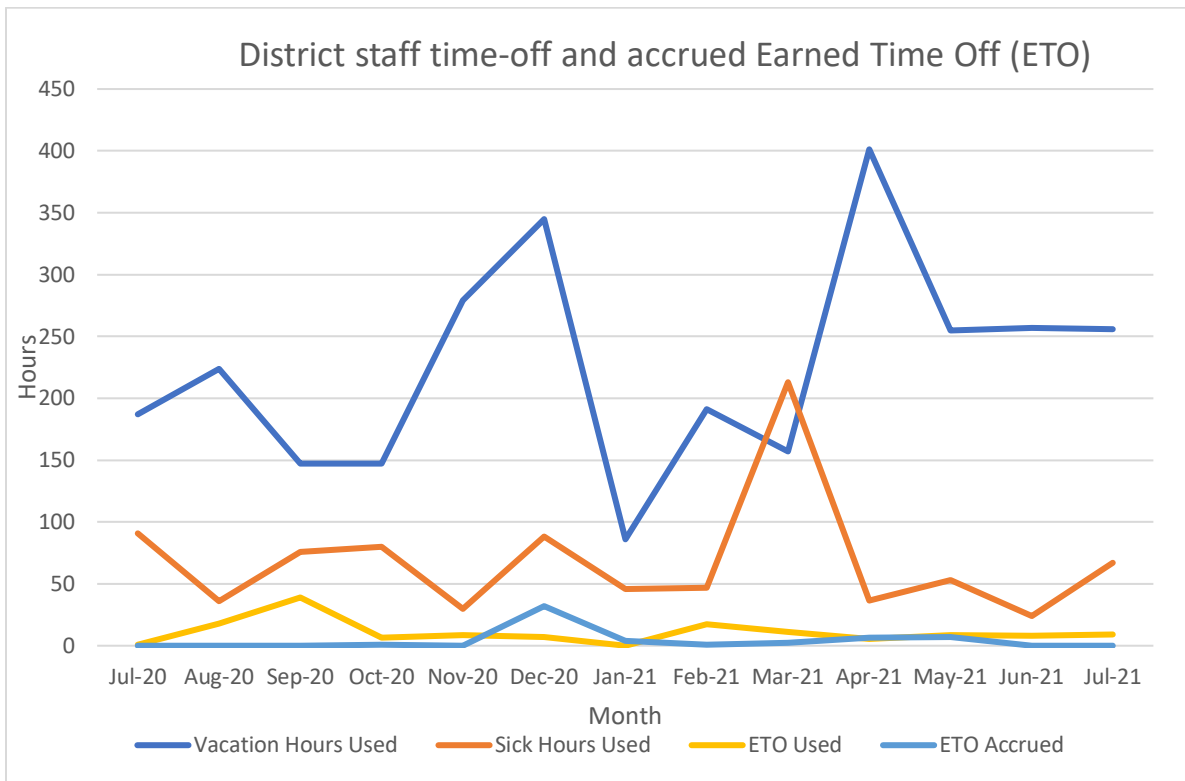


## A. District Data

### 1. July Service Requests

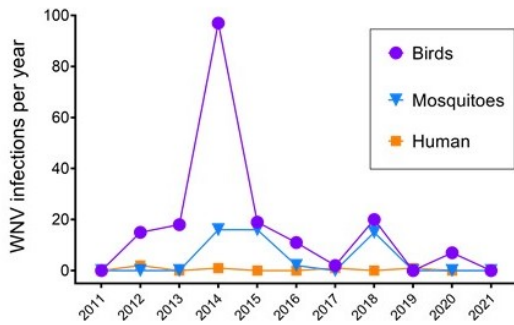


## 2. Activity Report

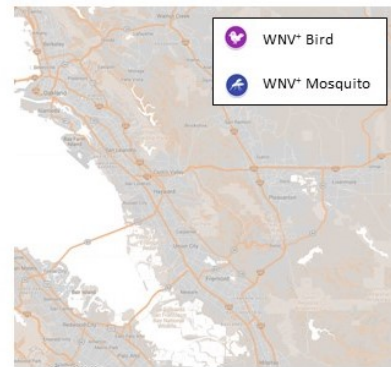


## 3. WNV Activity

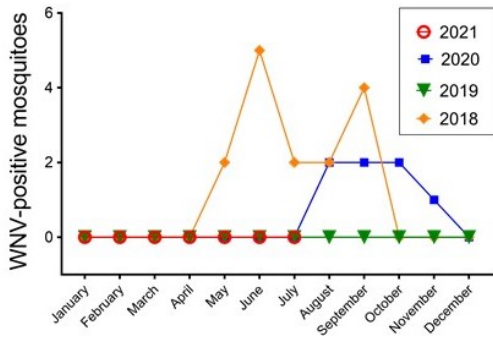
WNV infections detected in Alameda County  
2011 – 2021



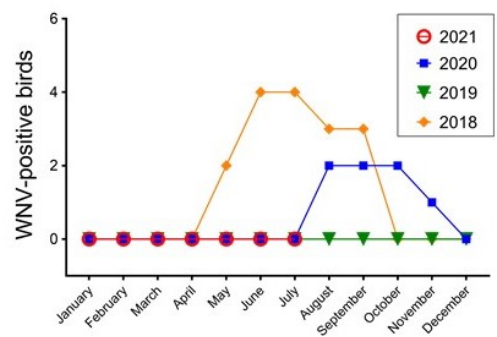
Locations of WNV-infected mosquitoes and birds  
collected in Alameda County during 2021



WNV-infected birds collected in  
Alameda County



WNV-infected mosquitoes collected in  
Alameda County



## 2. LAB

### Summary

- *Arboviruses*. West Nile virus (WNV) was not detected in birds or mosquitoes during July 2021. Saint Louis encephalitis virus (SLEV) and Western equine encephalitis virus (WEEV) was not detected in Alameda County during the prior 5 years.
- *Native mosquitoes*. CO<sub>2</sub>-baited encephalitis virus survey (EVS) traps collected 2.5-fold fewer mosquitoes during July 2021 relative to the prior month (587 nights with mosquitoes collected in a trap). New Jersey Light Traps (NJLT) captured a similar number of adult mosquitoes during June compared to the prior month (N = 140 mosquitoes).
- *Invasive mosquitoes*. Invasive *Aedes* mosquitoes were not detected in Alameda County during 2021.

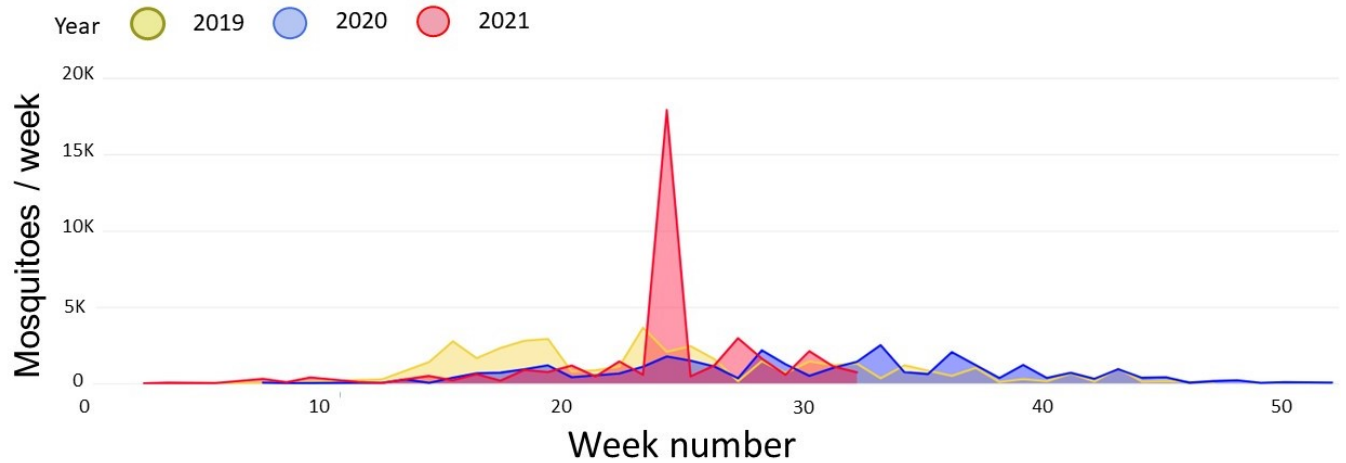
### Arbovirus Monitoring

- WNV was not detected in birds collected in Alameda County during July 2021. WNV was last detected in the county during November 2020 in an American crow.
- None of the mosquitoes that were collected during 2021 contained WNV, SLEV, or WEEV. WNV was last detected in mosquitoes during 2018. SLEV and WEEV have not been detected in the County for over a decade.

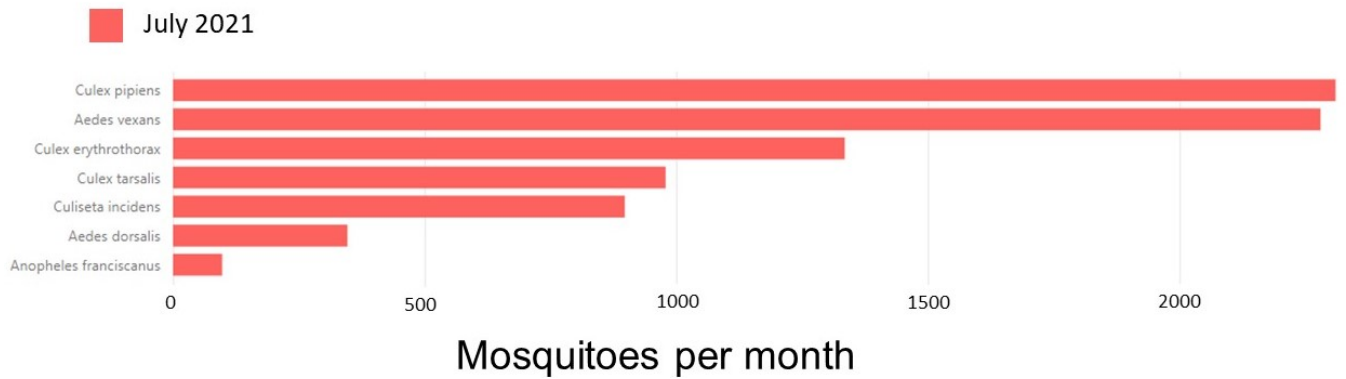
### Native Mosquito Abundance

- Over the course of 587 trap nights, a total of 8,311 adult mosquitoes were captured in EVS traps during July 2021, a 2.5-fold decrease relative to the prior month (Figure 1). Sixty-nine EVS traps did not collect any mosquitoes (Figure 1, insert).
- The two most abundant mosquito species that were collected in EVS traps were *Culex pipiens*, a West Nile virus vector, and *Aedes vexans*, an aggressive biter that was found only at Del Valle Regional Park (N = 2,310 *Cx. pipiens* and 2,280 *Ae. vexans*; Figure 1A and Figure 2). Although low adult *Cx. pipiens* was observed broadly distributed throughout the County, one Operations EVS trap collected a large quantity from the City of Alameda (N = 476).
- Low abundance of adult *Aedes dorsalis* was observed despite several high tide events (Figure 1B), suggesting that the larvicide applications in those areas were highly effective. Adult mosquito abundance in much of the eastern region of the county remained very low (Figure 1C).
- The reduction in mosquito abundance relative to the prior month was driven by normalized water levels and mosquito larva control efforts at Del Valle Regional Park, intensive larvicide applications to control *Aedes dorsalis* in the marshes that abut the San Francisco Bay, and overall lower mosquito abundance elsewhere that is likely due to drought conditions in the area.
- Mosquito abundance for June, as measured using NJLT, was similar the prior month (140 mosquitoes captured during July). *Culiseta incidens*, which is not a WNV vector, was most abundant species collected in NJLT (Figure 4). The greatest number of mosquitoes were collected in the Union City NJLT (n = 17; Figure 5).

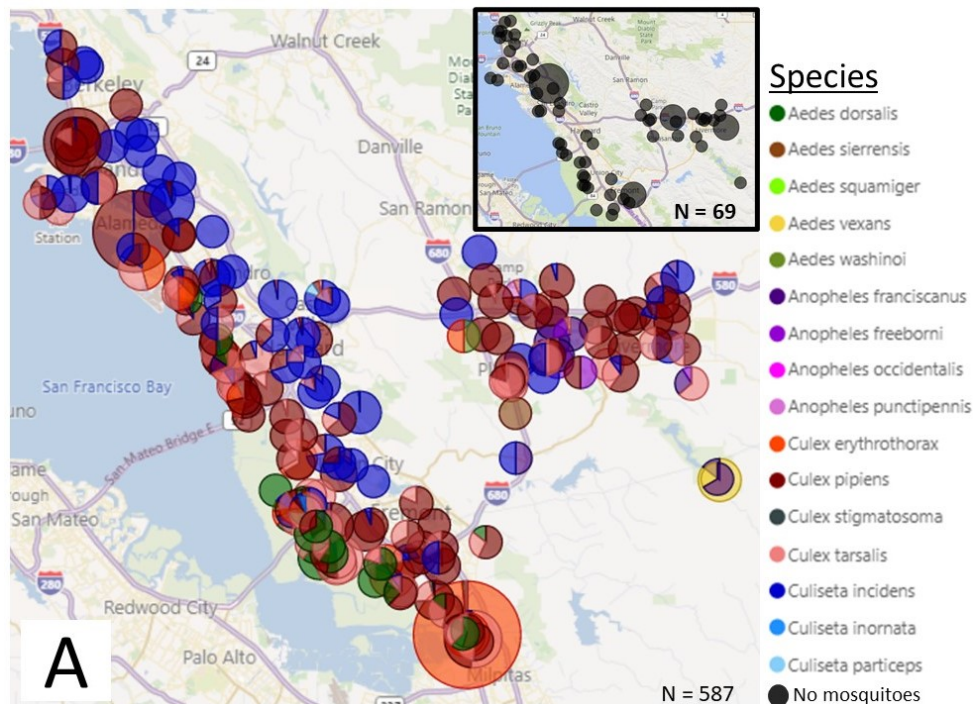
**FIGURES**



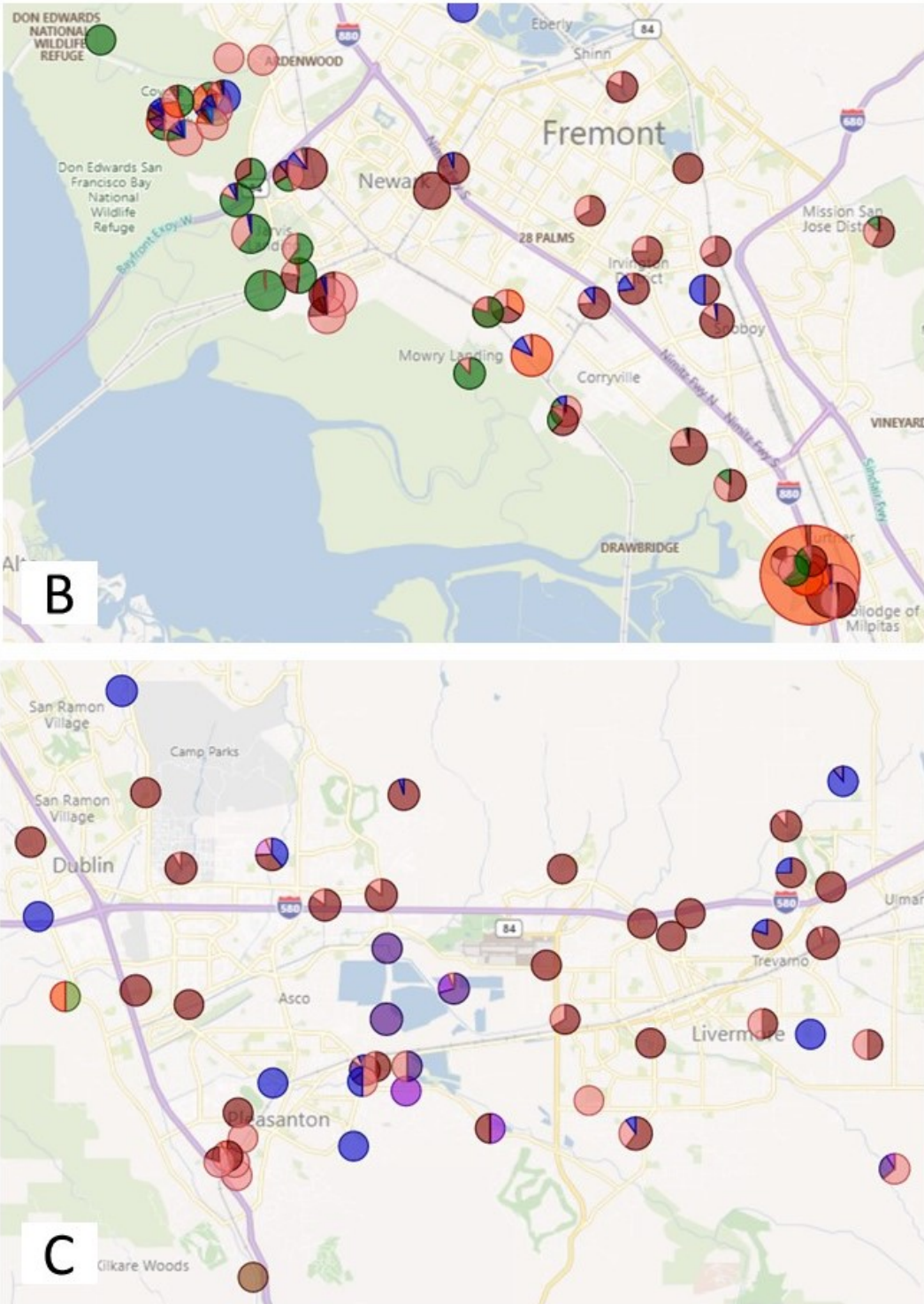
**Figure 1. Mosquitoes captured in EVS CO<sub>2</sub> traps from 2019 – 2021.** A total of 8,311 adult mosquitoes were captured in EVS CO<sub>2</sub> traps during July 2021 and identified to species.



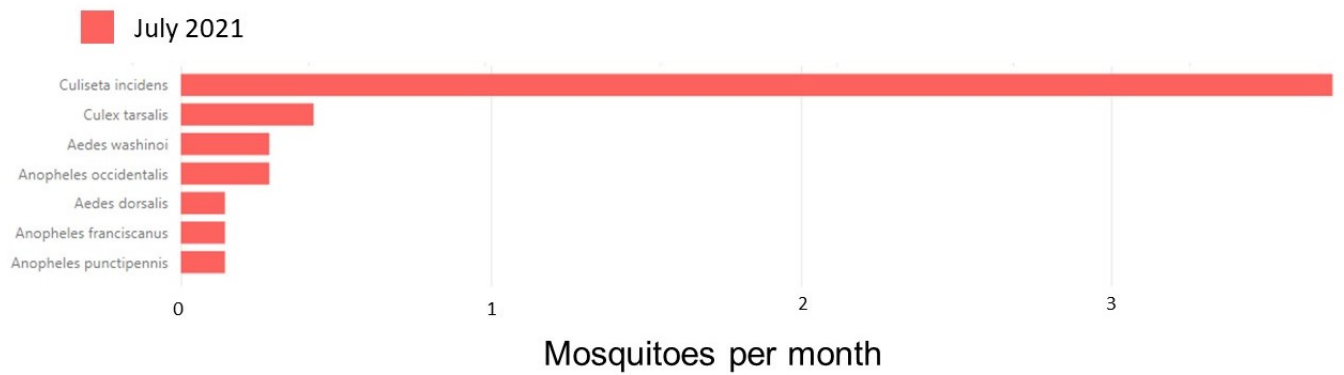
**Figure 2. The most abundant species of mosquito captured using EVS CO<sub>2</sub> traps.**



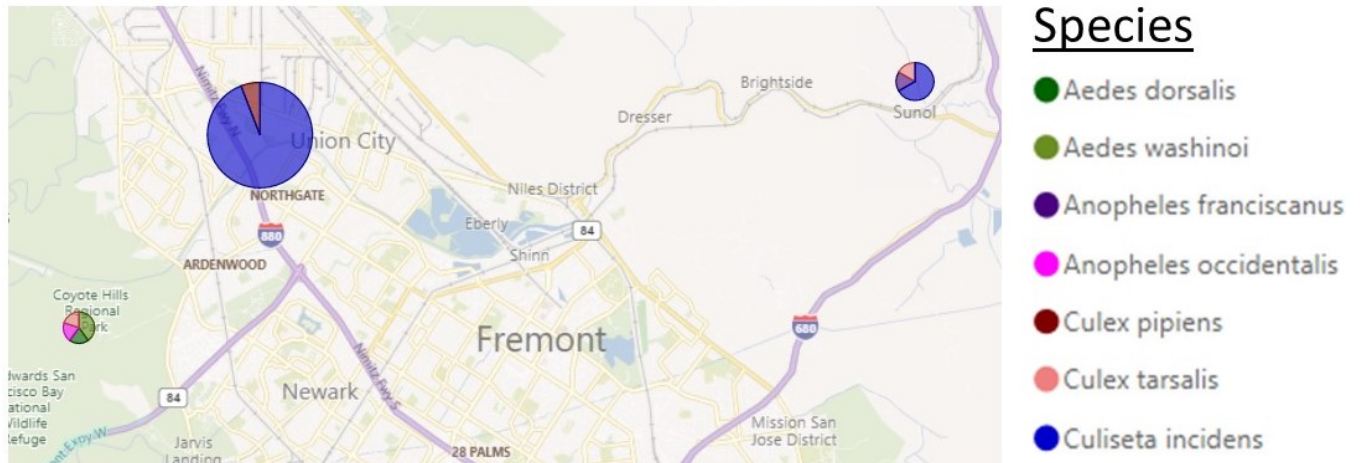




**Figure 3. Mosquito abundance by trap site evaluated using EVS CO<sub>2</sub> traps.** Pie charts over trap sites indicate the distribution of mosquito species collected at the trap site. The size of the pie charts indicates the relative number of mosquitoes at each site during July 2021. (A) Alameda County. The insert shows traps that were placed but did not collect mosquitoes. (B) Western Alameda County where larval mosquito products were applied to reduce the adult abundance of *Ae. dorsalis* (highlighted green pie charts). Adult *Culex erythrothorax* mosquitoes were the most abundant in the region and were localized to the southern border where their bulrush-dependent habitat abuts Santa Clara County. (C) East Alameda County where mosquito abundance was low.



**Figure 4. The most abundant species of mosquito captured in NJLT. A total of 140 mosquitoes were captured in NJLT.**



**Figure 5. Geographic distribution of mosquito abundance in Alameda County evaluated using NJLT. Pie charts over trap sites indicate the distribution of mosquito species collected at the trap site. The largest pie chart in Union City represents 16 adult *Culiseta incidens* mosquitoes.**

### 3. PUBLIC EDUCATION

#### A. Paid Advertisements

##### i. Streaming TV

The 30 second English video ads ran from April 18<sup>th</sup> through the month of July in all Alameda County zip codes in the following streaming TV programming.

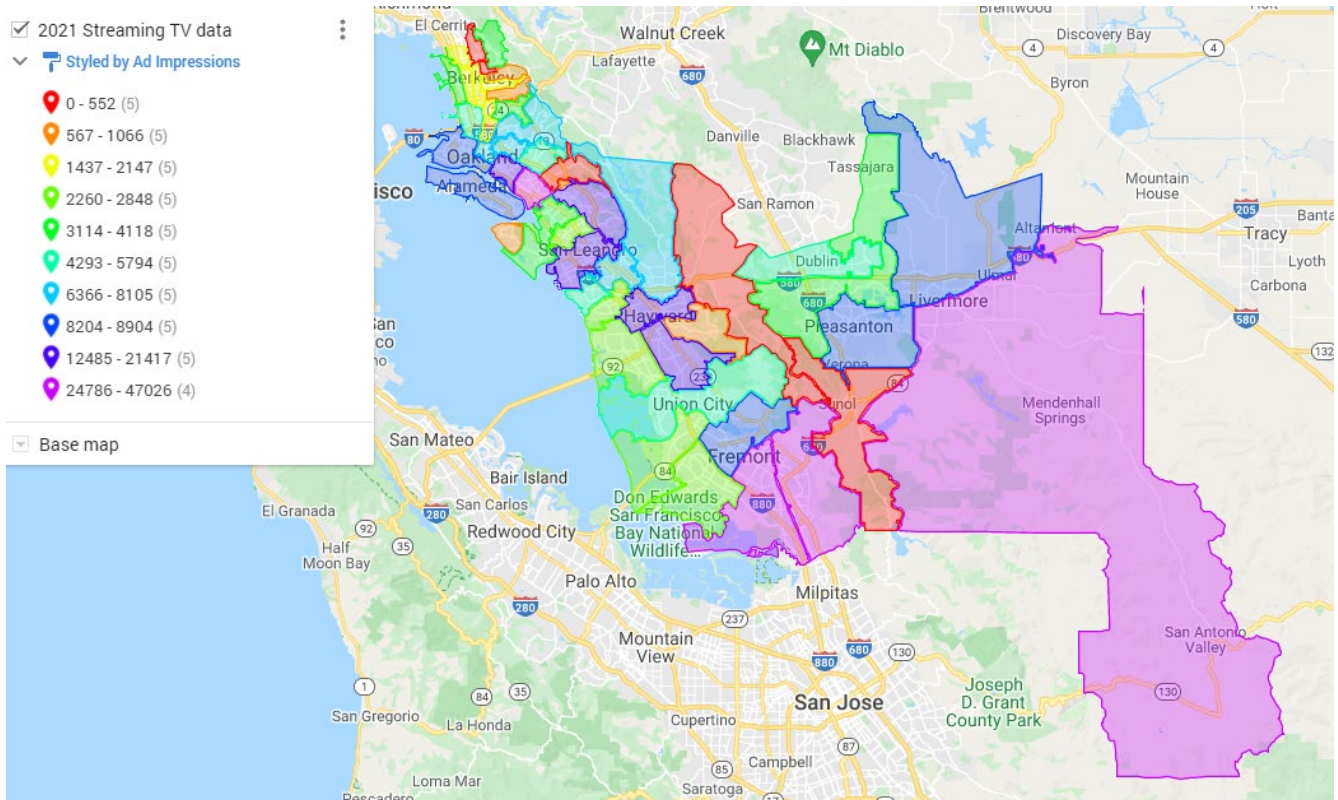


Figure 1. The number of times streaming TV ads ran in each Alameda County zip code.



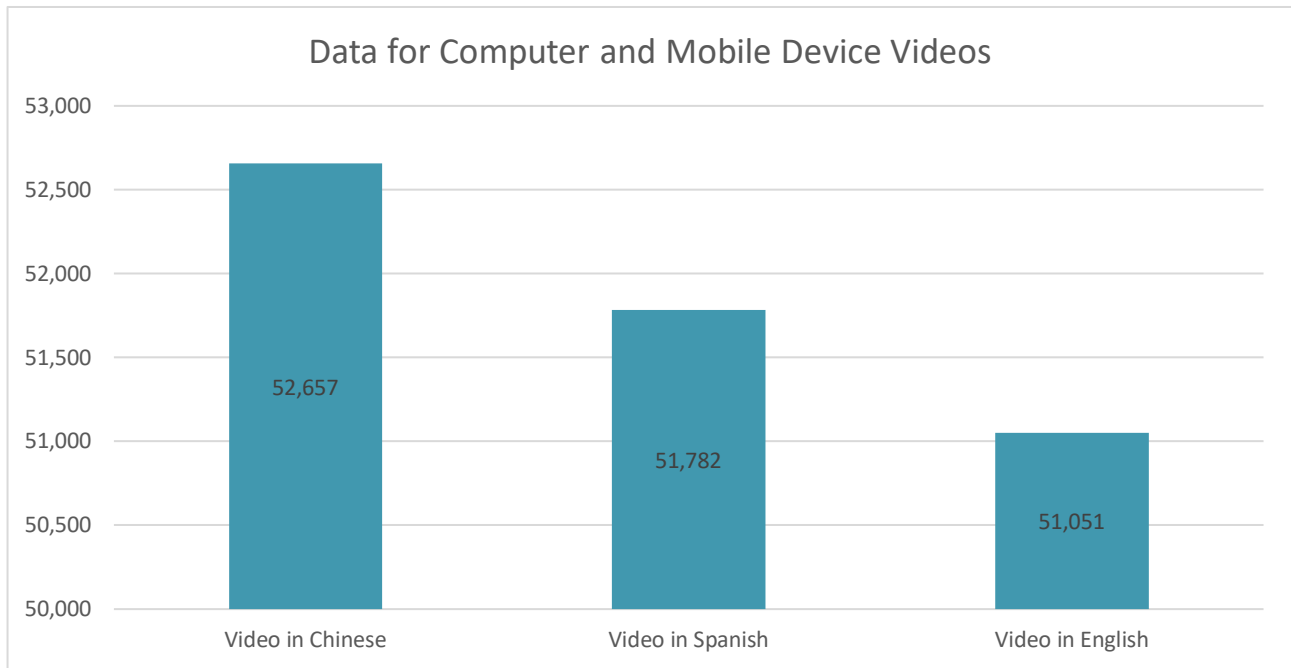
ii. **Computer and Mobile Device Videos**

Three 15 second videos ran from April 18<sup>th</sup> through July 31<sup>st</sup> in English (20 zip codes), Spanish (20 zip codes), and Mandarin/Simplified Chinese (6 zip codes) in select areas throughout Alameda County. The ads ran a total of 155,492 times. The breakdown of how many times they ran in each language is in the chart below.

**Desktop**



**Mobile**



**Figure 2. The number of times each video ad ran by language.**



iii. **Coinstar Machines**

A 15 second silent video is running in 9 locations at grocery stores in Alameda County. Locations were chosen based on ethnic diversity of the surrounding community in the available locations.



Figure 3. Coinstar machine at Pak N Save on Floresta Blvd. in San Leandro.



Figure 4. Map of Coinstar machines running ACMAD ads. The ads were shown a total of 312,529 times at the locations from April 18<sup>th</sup> through July 31<sup>st</sup>.

## B. Google Analytics

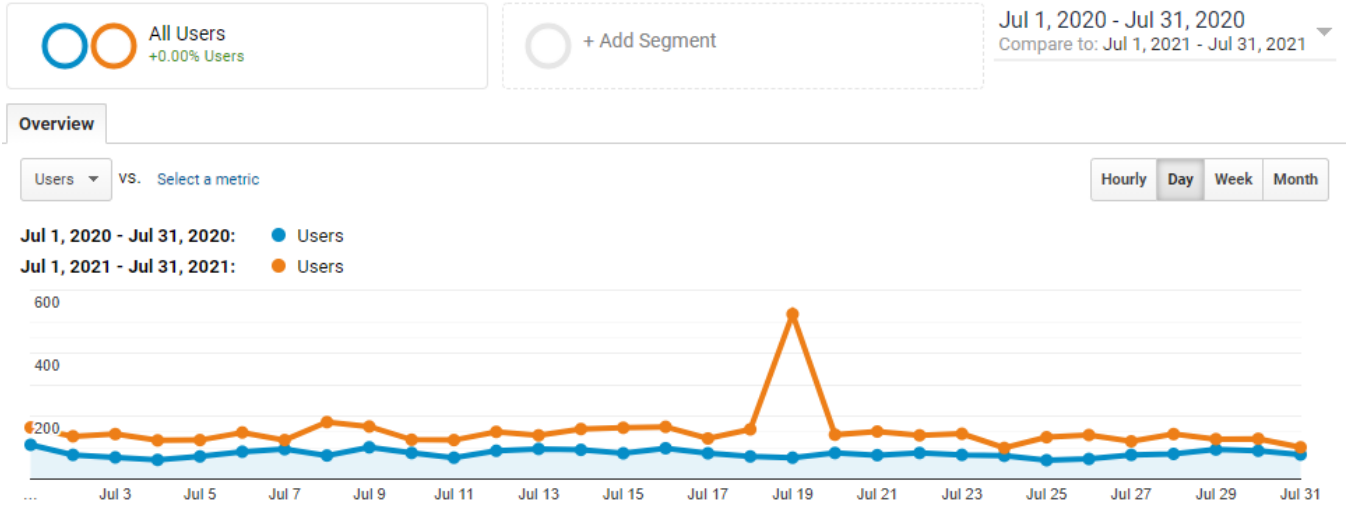


Figure 5. July website users for 2020 compared to 2021.

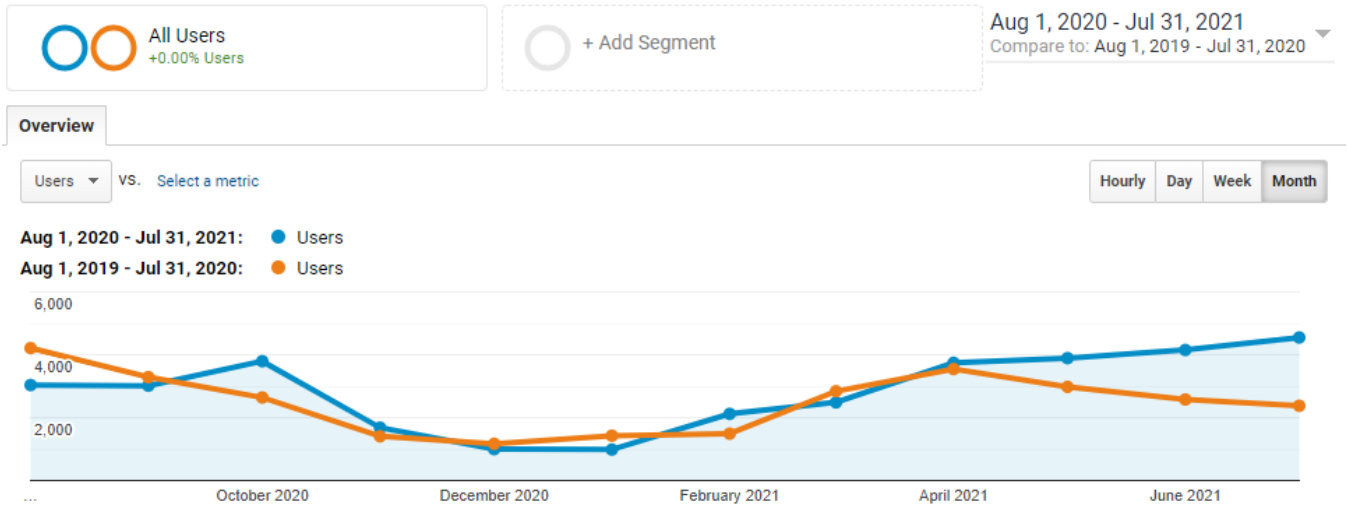
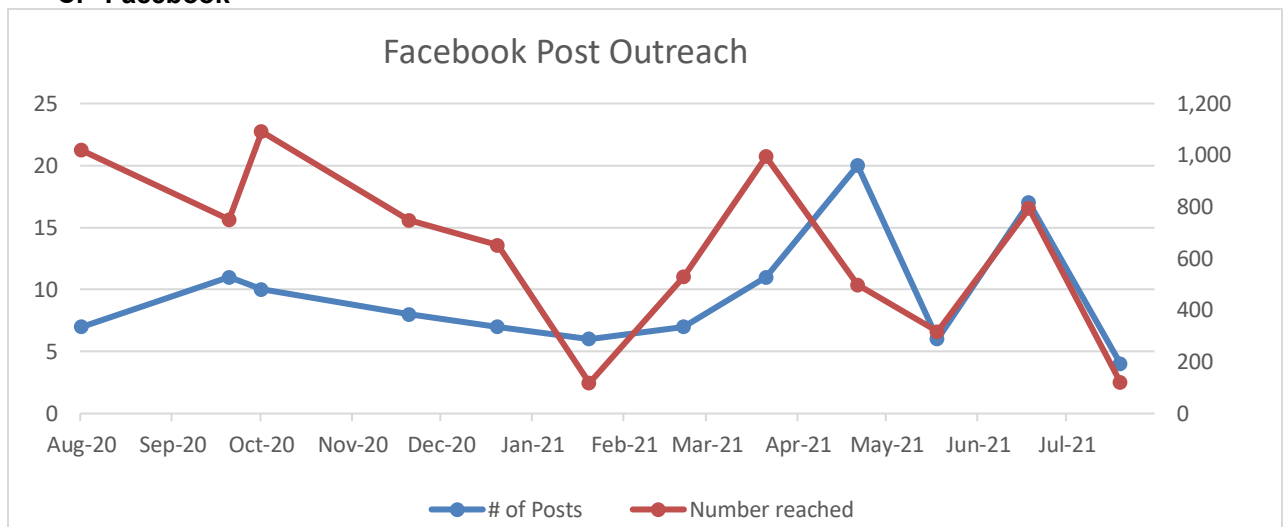


Figure 6. Comparison of website users over the past two years.

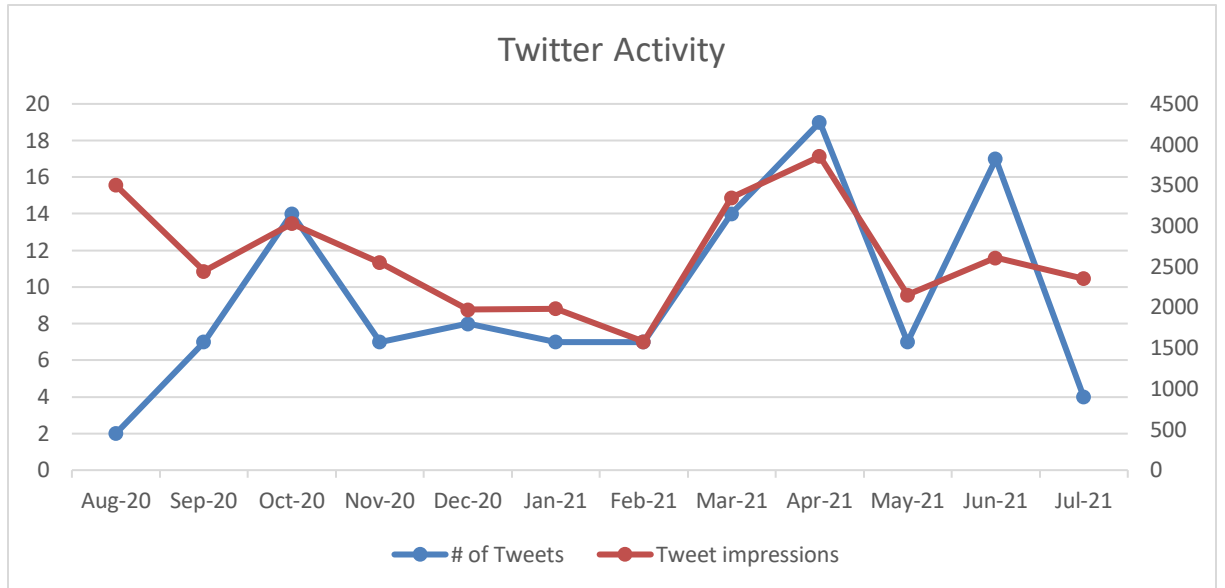
## C. Facebook



Facebook: 4 posts, 120 number reached

Total Number of Followers: 316 (1 added in July)

**D. Twitter**



**Number of Profile Visits in July: 87    Total Number of Followers: 747 (1 unfollowed since June)**

**DYK? Only female mosquitoes bite**

They use blood to their nourish eggs. You can tell it's female if it has a proboscis, which is the needle- like mouthpart that sucks blood

**Top July Facebook and Twitter Post: #DYK**

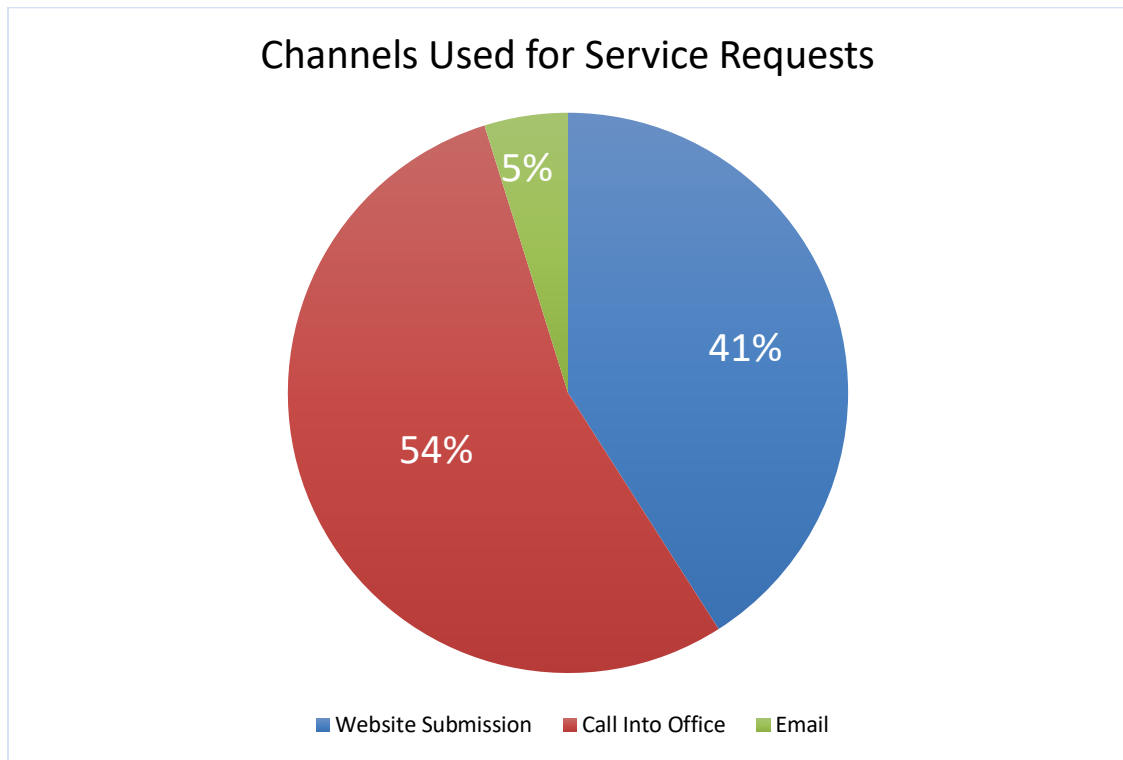
**E. Service Request Referral Summary for July**

Number of Requests by Channel



Note: Multiple residents listed two or more referrals

**F. Channels Used by Residents to Request Service**



83 requests in total, 34 web submissions, 45 calls and 4 emails

**From:** [Ryan Clausnitzer](#)  
**To:** [ALL ACMAD](#)  
**Cc:** ,  
**Subject:** Indoor Face Coverings Mandate (2.0)  
**Date:** Monday, August 2, 2021 1:38:24 PM  
**Attachments:** [21-03-face-coverings-eng.pdf](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)  
**Importance:** High

---

Hello-

The Health Officer of Alameda County is requiring face coverings in workplaces and indoor public settings as of midnight tonight (Monday 2<sup>nd</sup> to Tuesday the 3<sup>rd</sup>). Beginning tomorrow (8/3/21), we must revert back to way we did things earlier on with wearing masks in common areas while working at the District office. There are no additional requirements at this point but we will stay tuned for additional information.

Thankfully, we are all vaccinated which better protects us from infections and more serious COVID-19 related symptoms but, please be aware that cases are rising for even vaccinated individuals in the community so please be vigilant when working and during your time away from work.

I still plan on going ahead with the plan for Friday, but we will just have to be masked when indoors.

This is an unfortunate development, and I understand and relate to your frustrations.

Thank you-



**Ryan Clausnitzer**

*General Manager*

23187 Connecticut St., Hayward, CA 94545

**Direct** 510-925-1756 | **Main** 510-783-7744

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| [www.mosquitoes.org](http://www.mosquitoes.org)

