

**AGENDA**  
1073<sup>rd</sup> MEETING OF THE BOARD OF TRUSTEES  
OF THE ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT  
OCTOBER 9TH, 2019

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TIME: 5:00 P.M.  
PLACE: Office of the District, 23187 Connecticut Street, Hayward  
TRUSTEES: Eric Hentschke, President, City of Newark  
Wendi Poulson, Vice-President, City of Alameda  
P. Robert Beatty, Secretary, City of Berkeley  
Cathy Roache, County-at-Large  
Alan Brown, City of Dublin  
Betsy Cooley, City of Emeryville  
George Young, City of Fremont  
Elisa Marquez, City of Hayward  
James N. Doggett, City of Livermore  
Jan O. Washburn, City of Oakland  
Robert Dickinson, City of Piedmont  
Kathy Narum, City of Pleasanton  
Victor Aguilar, City of San Leandro  
Subru Bhat, City of Union City

1. Call to order.
2. Roll call.
3. President Hentschke 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 1072<sup>nd</sup> meeting held September 11<sup>th</sup>, 2019 (**Board action required**)
5. An update on the District's LAFCo annexation application of Albany (Information only)
  - a. Most recent LAFCo Sphere of Influence resolutions
    - i. City of Albany: 1/12/18
    - ii. ACMAD: 2/23/13
    - iii. Alameda County Vector Control Services District: 2/23/13
6. Financial Reports as of September 30<sup>th</sup>, 2019: (Information only).
  - a. Check Register
  - b. Income Statement
  - c. Investments, reserves, and cash report
7. Presentation of the Monthly Staff Report for October 2019 (Information only).
8. Presentation of the Manager's Report for October 2019 (Information only).
  - a. Trustee & Staff Anniversaries
  - b. Report from the CSDA Annual Conference
  - c. MVCAC annual conference: San Diego, CA: 1/26-1/29; AMCA annual conference: Portland, OR: 3/16-3/20
  - d. Remodel update
  - e. Trustee training due: AB 1825 & AB1234: Narum

9. Board President asks for reports on conferences and seminars attended by Trustees.
10. Board President asks for announcements from members of the Board.
11. Board President asks trustees for items to be added to the agenda for the next Board meeting.
12. Adjournment.

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

**Please Note: A copy of this agenda is also available at the District website, [www.mosquitoes.org](http://www.mosquitoes.org) or via email by request. Alternative formats of this agenda can be made available for persons with disabilities. Please contact the district office at (510) 783-7744, via FAX (510) 783-3903 or email at [acmad@mosquitoes.org](mailto:acmad@mosquitoes.org) to request an alternative format.**

## MINUTES

### 1072<sup>th</sup> MEETING OF THE BOARD OF TRUSTEES OF THE ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT

September 11<sup>th</sup>, 2019

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TIME: 5:00 P.M.  
PLACE: Office of the District, 23187 Connecticut Street, Hayward  
TRUSTEES: Eric Hentschke, President, City of Newark  
Wendi Poulson, Vice-President, City of Alameda  
P. Robert Beatty, Secretary, City of Berkeley  
Cathy Roache, County-at-Large  
Alan Brown, City of Dublin  
Betsy Cooley, City of Emeryville  
George Young, City of Fremont  
Elisa Marquez, City of Hayward  
James N. Doggett, City of Livermore  
Jan O. Washburn, City of Oakland  
Robert Dickinson, City of Piedmont  
Kathy Narum, City of Pleasanton  
Victor Aguilar, City of San Leandro  
Subru Bhat, City of Union City

1. Board President Hentschke called the regularly scheduled board meeting to order at 5:02 P.M.
2. Trustees Hentschke, Poulson, Beatty, Brown, Cooley, Young, Washburn and Bhat were present. Trustees Roache, Doggett, Dickinson and Narum were absent. Trustees Marquez and Aguilar arrived at 5:08 and 5:20, respectively.
3. Board President Hentschke invited members of the public to speak on any issue relevant to the District. Joseph Federico, Senior Analyst of PFM Asset Management LLC was present to give an update on the OPEB trust investments. Vector Biologist Jeremy Sette was present to record the minutes.
4. Approval of minutes of the 1071<sup>st</sup> meeting held August 14<sup>th</sup>, 2019.  
**Motion:** Trustee Brown moved to approve the minutes  
**Second:** Trustee Poulson  
**Vote:** motion carries: unanimous.
5. Post-Retirement Health Benefits trust account and update on the OPEB trust investments by Joseph Federico, PFM.  
**Discussion:**  
Joseph Federico of PFM gave an update on the OPEB trust investments and fielded the following discussion. President Hentschke asked for clarification on the future consideration section (the charts show estimated future market strength). Secretary Beatty commented that the future investment health seems to be mixed with a wide range of unfavorable to favorable (yes, the District is diversified). Trustee Bhat asked if Federico foresaw the Fed dropping

interest rates into the negative, as President Trump mentioned (no, it is unlikely). The General Manager commented that the OPEB fund is fully funded. Trustee Cooley asked if the 180K annual withdrawals includes fees (yes, from PFM and US Bank). Secretary Beatty asked which page explained the fees (page 2.4). The General Manager noted that the health of the OPEB fund is reported on the Balance Sheet and IRC page every month.

6. Review of quotes and awarding of contract to Adapco for the purchase of an A1 Commercial Super Duty Mist Sprayer 100-gallon with Rotary Atomizer.

**Discussion:**

The General Manager discussed the different bids for the equipment, the importance in larval control especially for *Aedes aegypti*, and he recommended awarding the contract to Adapco while fielding the following questions. President Hentschke asked about the significant differences in price between the different sprayers (the mosquito market for this technology is small and new, thus prices vary widely). Trustee Bhat asked if the sprayer was a supplement to fogging or a replacement (a supplement). President Hentschke asked if the active ingredient used in the sprayer was Bti (yes). Trustee Young asked how long the vapor would stay in the air and how high would it be sprayed (the mist falls quickly and is not sure about the exact height, but the Board was referred to the photo in the packet). Trustee Young also asked if the spray would be harmful to humans and if they should stay inside (Bti has been shown to be non-harmful to non-target species). Trustee Brown asked if the District would be obtaining the optional reel (yes) and asked if there was a maintenance package included with the purchase (no package but the Mechanical Specialist will handle the maintenance like other District equipment). Trustee Aguilar asked what the cost sharing would be with a neighboring district (the General Manager would look at the current value with depreciation and divide by the number of days of the year to obtain the equipment's hourly rental rate). The General Manager commended Field Supervisor Joseph Huston's effort in taking the lead in recommending the purchase.

**Motion:** Secretary Beatty

**Second:** Trustee Washburn

**Vote:** motion carries: unanimous.

7. Presentation of the Financial Reports as of August 31<sup>st</sup>, 2019.

**Discussion:**

The General Manager presented the Financial Reports as of August 31<sup>st</sup>, 2019.

8. Presentation of the Monthly Staff Report for August 2019.

**Discussion:**

The General Manager presented the Monthly Staff Report for August 2019 and fielded the following discussion. President Hentschke asked for clarification if the *Aedes dorsalis* mosquito was an especially big mosquito (it's actually smaller than most mosquito species, but it is a particularly aggressive day-biter). Vice-President Poulson asked if the recent negatively tested West Nile virus dead birds collected in Fremont were crows (yes). Trustee Bhat asked which part of Fremont the birds were collected from (unsure, as they were reported and collected by Animal Control Services). President Hentschke asked if District staff got to choose which neighborhoods on Nextdoor to post information (yes, but this a county-wide alert). Trustee Washburn saw this post by the District through an alert he received and commented that it was well done. Trustee Cooley mentioned that she had not seen the post and asked when it was posted (August 19<sup>th</sup>). The General Manager mentioned that seasonal employee Starla House, attended a meeting with Nextdoor that led to this posting. Trustee Washburn mentioned that if you type "mosquito" in the Nextdoor app search function, you would find the post.

9. Presentation of the Manager's Report for August 2019.

**Discussion:**

The General Manager presented the Manager's Report for August 2019 and fielded the following discussion. Secretary Beatty asked if Vector Control was a part of a city or the county (Alameda County). The General Manager alerted Board Members that the Monday, September 16<sup>th</sup> Albany City Council meeting will have an item that discusses the annexation application. Trustee Washburn provided some historical background on Albany's relationship with the District through his experiences. Trustee Cooley asked if this annexation was initiated by a request from other mayors in the District (indirectly through multiple LAFCo recommendations which has two mayors serving as Commissioners). Secretary Beatty asked what might be the specific questions asked (unsure, but likely related to the \$4.24 that the District is asking Albany residents to pay for District services), and also asked Board Members who would be attending to arrive early to get a comment card (yes, for that specific item). Trustee Cooley asked if the Council will pull the item from the consent calendar (yes, as there will be speaker cards related to it). Trustee Bhat asked if the General Manager could email him the city council meeting agenda (yes). Secretary Beatty asked if the arrival of *Aedes aegypti* in Alameda County is inevitable (Trustee Washburn answered yes, although the mosquito will not most likely thrive in this climate as it does in inland climates). Trustee Washburn explained that invasive mosquitoes, including *Aedes aegypti*, were the cause of the Zika outbreak a few years ago in Miami-Dade County, Florida.

10. Board President Hentschke asked for reports on conferences and seminars attended by Trustees. None.
11. Board President Hentschke asked for announcements from the Board. None.
12. Board President Hentschke asked trustees for items to be added to the agenda for the next Board meeting. None.
13. The meeting adjourned at 6:10 P.M.

**Respectfully submitted,**

Approved as written and/or corrected  
at the 1073<sup>st</sup> meeting of the Board of  
Trustees held October 9<sup>th</sup>, 2019

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Eric Hentschke, President  
BOARD OF TRUSTEES

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P. Robert Beatty, Secretary  
BOARD OF TRUSTEES

**ALAMEDA LOCAL AGENCY FORMATION COMMISSION  
RESOLUTION NO. 2018-03**

**REAFFIRM THE SPHERE OF INFLUENCE FOR THE CITY OF ALBANY**

**WHEREAS**, Government Code Section 56425 et seq. requires the Local Agency Formation Commission (LAFCo) to develop and determine the sphere of influence (SOI) of each local governmental agency within the County; and

**WHEREAS**, Government Code Section 56425(g) requires that LAFCo review and update the adopted SOI boundaries, as necessary, every five years; and

**WHEREAS**, Government Code Section 56430 requires that a municipal services review be conducted prior to or in conjunction with a SOI update; and

**WHEREAS**, LAFCo conducted a Cities Municipal Services Review of the services provided by the 14 cities in Alameda County and adopted written determinations as required by Government Code Section 56430 on January 11, 2018; and

**WHEREAS**, the update of the City of Albany's sphere of influence is Categorically Exempt from the California Environmental Quality Act (CEQA) pursuant to Section 15061(b)(3) which states that an activity is covered by the general rule that CEQA applies only to projects which have the potential for causing a significant effect on the environment. Where it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment, the activity is not subject to CEQA. The sphere update is further exempt from CEQA pursuant to Section 15378(b)(5) which states that organizational or administrative activities of governments that will not result in direct or indirect physical changes in the environment are not considered projects under CEQA; and

**WHEREAS**, the City of Albany provides fire and emergency response, law enforcement, parks and recreation, planning/building, and streets. Other services, such as solid waste, are provided under contract with other service providers; and

**WHEREAS**, the City of Albany incorporated in 1908; and

**WHEREAS**, the City lies in the northwestern corner of Alameda County, bordered by Contra Costa County to the north and the City of Berkeley on both the east and south; and

**WHEREAS**, Albany's SOI was originally established by LAFCo in 1983 and is coterminous with its boundaries; and

**WHEREAS**, no change in regulation, land use or development will occur as a result of updating the City's SOI; and

**WHEREAS**, in the form and manner prescribed by law, the Executive Officer has given notice of a public hearing by this Commission; and

**WHEREAS**, the SOI update was duly considered at a public hearing held on January 11, 2018; and

**WHEREAS**, at the public hearing all persons present were given an opportunity to appear and be heard with respect to any matter pertaining to said action.

**NOW, THEREFORE, BE IT RESOLVED, DETERMINED AND ORDERED** that the Alameda LAFCo hereby:

1. Finds this SOI update is categorically exempt under Section 15061(b)(3) and Section 15378(b)(5) of the CEQA Guidelines.
2. Reaffirms the existing SOI for the City of Albany, which is coterminous with its boundary, as generally depicted in Exhibit A attached hereto.
3. Adopts the following SOI Policy:
  - **Policy Recommendation #1:** LAFCo should encourage the City of Albany to take the necessary steps to annex into the Alameda County Mosquito Abatement District.
4. Considered the criteria set forth in Government Code Section 56425(e) and determines as follows:

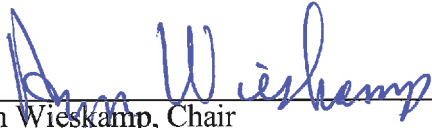
<b>Criteria</b>	<b>Determination</b>
<i>The present and planned land uses (including agricultural and open-space lands)</i>	The City of Albany plans for a variety of urban uses within its boundary, representing a continuation of the current mix of uses, including residential, commercial and mixed use, and public and open space. Present and planned land uses are adequate for existing residents as well as future growth, as demonstrated in the General Plan (2013).
<i>The present and probable need for public facilities and services</i>	There are no anticipated changes in the type of public services and facilities required within the SOI for the City of Albany. The level of demand for these services and facilities, however, will increase commensurate with anticipated population growth over the next five years.
<i>The present and probable future capacity of public facilities and services</i>	The present capacity of public facilities in the City of Albany appears adequate. The City of Albany anticipates it will continue to have adequate capacity during the next five years.
<i>The existence of any social or economic communities of interest if the commission determines that they are relevant to the agency</i>	All communities of interest within the City’s municipal boundary are included within the SOI. Alameda LAFCo has not identified specific social or economic communities of interest relevant to the City of Albany.
<i>For an update of an SOI of a city or special district that provides public facilities or services related to sewers, municipal and industrial water, or structural fire protection, that occurs pursuant to subdivision (g) on or after July 1, 2012, the present and probable need for those public facilities and services of any disadvantaged unincorporated communities within the existing sphere of influence</i>	The City of Albany shares structural fire protection facilities and services within its SOI with the City of Berkeley and provides sewer facilities and services within its SOI; water is provided by East Bay Municipal Utility District. There are no DUCs within or contiguous to the SOI for the City of Albany and therefore no present or probable need for these facilities and services for DUCs.

5. Direct staff to file a Notice of Exemption as lead agency under Section 15062 of the CEQA Guidelines.

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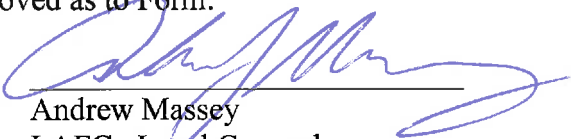
This Resolution was approved and adopted by the Alameda Local Agency Formation Commission at a regular meeting held on January 11, 2018 at the Dublin San Ramon Services District, 7051 Dublin Boulevard in Dublin, California on the motion made by Commissioner Sblendorio, seconded by Commissioner Miley, and duly carried.

Ayes: 7 (Haggerty, Johnson, Marchand, Miley, Sblendorio, Thorne, Wieskamp)  
Noes: 0  
Abstain: 0  
Absent: 0



\_\_\_\_\_  
Ayn Wieskamp, Chair  
Alameda Local Agency Formation Commission

Approved as to Form:

By:   
\_\_\_\_\_  
Andrew Massey  
LAFCo Legal Counsel

**CERTIFICATION:** I hereby certify that the foregoing is a correct copy of a resolution adopted by the Alameda Local Agency Formation Commission, Alameda County, Oakland, California.



Attest: \_\_\_\_\_  
Mona Palacios, LAFCo Executive Officer

Date: 1/12/2018

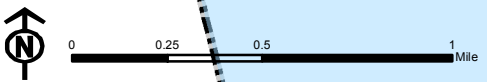
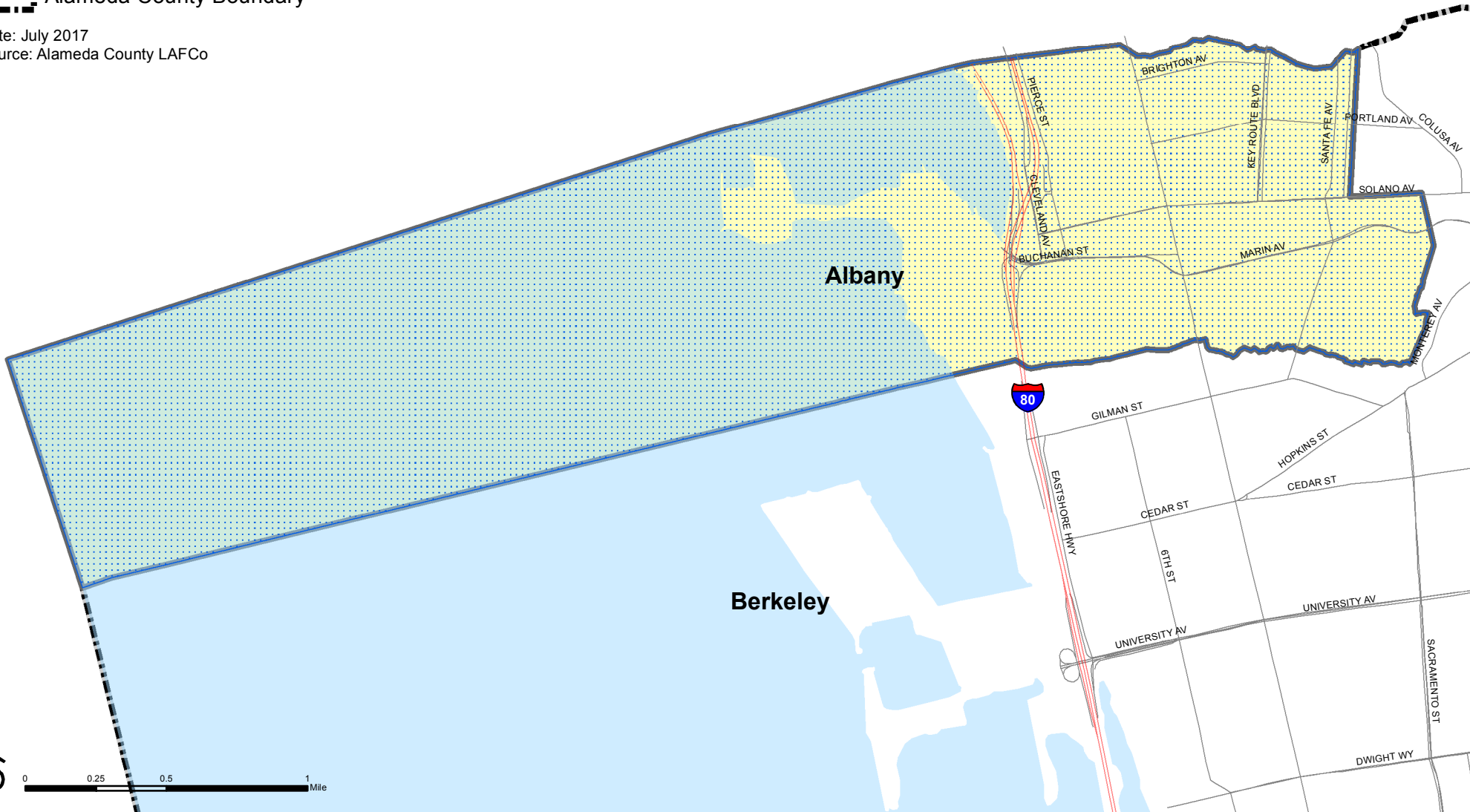
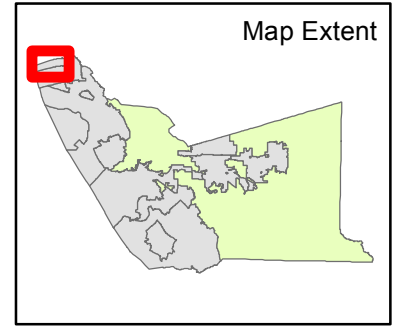


# City Limits and Sphere of Influence Boundaries for the City of Albany

Exhibit A

- Other Major Streets and Roads
- Highways
- ▨ City of Albany SOI
- City of Albany
- Cities
- ▬ Alameda County Boundary

Date: July 2017  
Source: Alameda County LAFCo



**ALAMEDA LOCAL AGENCY FORMATION COMMISSION  
RESOLUTION NO. 2013-01**

**Adopting Municipal Service Review Determinations, Sphere of Influence Determinations, and  
Updating the Sphere of Influence for the Alameda County Mosquito Abatement District**

**WHEREAS**, Government Code Section 56425 et seq. requires the Local Agency Formation Commission (LAFCo) to develop and determine the sphere of influence (SOI) of each local governmental agency under LAFCo jurisdiction within the County; and

**WHEREAS**, Government Code Section 56425(g) requires that LAFCo review and update adopted SOI boundaries, as necessary, not less than once every five years; and

**WHEREAS**, Government Code Section 56430 requires that a municipal services review (MSR) be conducted prior to or in conjunction with a SOI update; and

**WHEREAS**, LAFCo conducted a municipal services review of the services provided by the Alameda County Mosquito Abatement District; and

**WHEREAS**, the Alameda County Mosquito Abatement District has a SOI that is countywide and larger than the District's jurisdictional boundary; and

**WHEREAS**, no change in regulation, land use or development will occur as a result of updating the District's countywide SOI; and

**WHEREAS**, in the form and manner prescribed by law, the Executive Officer has given notice of a public hearing by this Commission regarding the SOI update action; and

**WHEREAS**, the MSR determinations, the SOI determinations and the SOI update were duly considered at a public hearing held on January 10, 2013; and

**WHEREAS**, the Alameda LAFCo heard and received all oral and written protests, objections and evidence that were made, presented or filed, and all persons present were given an opportunity to appear and be heard with respect to any matter pertaining to said action.

**NOW, THEREFORE, BE IT RESOLVED, DETERMINED AND ORDERED** that the Alameda LAFCo hereby:

1. Adopt the following MSR determinations:
  - a. Growth and Population Projections
    - i. As of 2010, the population within Alameda County Mosquito Abatement District (ACMAD) was 1,491,618.
    - ii. Based on Association of Bay Area Governments (ABAG) growth projections, the population of ACMAD is anticipated to be 1,894,355 by 2035.
    - iii. Most growth within ACMAD's boundaries is anticipated in the Tri Valley area in the cities of Livermore, Dublin and Pleasanton.
  - b. Location and Characteristics of Any Disadvantaged Unincorporated Communities Within or Contiguous to the Sphere of Influence
    - i. Using Census Designated Places, Alameda LAFCo determines that there are no disadvantaged unincorporated communities that meet the basic state-mandated criteria within the County. Alameda LAFCo recognizes, however, that there are communities in the County that experience disparities related to socio-economic, health, and crime issues, but the subject of

this review is municipal services such as water, sewer, and fire protection services to which these communities, for the most part, have access.

c. Present and Planned Capacity of Public Facilities and Adequacy of Public Services, Including Infrastructure Needs and Deficiencies

- i. Demand for mosquito abatement services is driven by growth of the human and vector populations. ACMAD routinely monitors human and vector populations in the County, and places control measures accordingly on an as-needed basis.
- ii. ACMAD experienced a 64 percent decline in the number of service requests between fiscal years 2005 and 2011.
- iii. Based on ACMAD's reported speed of response to requests and its success in keeping mosquito-borne illnesses at bay, the District's services appear to be adequate.
- iv. In 2007, the ACMAD building was significantly remodeled. Renovations included an addition of 3,700 square feet, which added a new laboratory, technician room, library, wood shop, and additional support staff offices. No existing infrastructure needs related to ACMAD's building and vehicle fleet were identified.
- v. Capital improvement projects are planned by the long-range planning committee. Infrastructure needs include upgrading ACMAD's computerized database system used in tracking mosquito control activities.

d. Financial Ability of Agency to Provide Services

- i. ACMAD reported that its financing levels were adequate to deliver services. According to the District, the recession has not had a major impact on ACMAD's budget; although there has been a reduction in funding due to foreclosures and lower property assessments.
- ii. At the end of FY 10-11, ACMAD had \$2,680,932 of unrestricted net assets, which is equivalent to about eight months of district operations.
- iii. In FY 10-11, ACMAD expenses exceeded revenues by about \$500,000. The District is able to finance this deficit from its reserve.

e. Status and Opportunities for Shared Facilities

- i. As a member of the Vector Control Joint Powers Agency, ACMAD receives workers compensation and excess liability insurance coverage. Additionally, ACMAD employees are eligible to participate in pension plans offered by California Public Employees Retirement System.
- ii. ACMAD collaborates with eight other mosquito and vector control agencies in the coastal region and 65 districts in the State, as well as the California Department of Public Health, Vector-borne Disease Division on NPDES permitting
- iii. ACMAD relies on the County for accounting and investment services.
- iv. ACMAD belongs to the Mosquito and Vector Control Association of California (MVCAC), the Society of Vector Ecologists (SOVE) and the American Mosquito Control Association (AMCA).

f. Accountability for Community Services, Including Governmental Structure and Operational Efficiencies

- i. ACMAD demonstrates accountability by updating its constituents on district activities, broadcasting its meetings, soliciting constituent input, disclosing its finances and other public documents on the ACMAD website, and cooperating with LAFCo information requests during the course of this MSR process.
- ii. During the 2006 SOI updates, the Commission adopted a policy to encourage ACMAD to initiate annexation of the territory within the City of Albany. ACMAD has recently expressed strong interest in the annexation. Should ACMAD decide to start the annexation process, it would anticipate funding comparable to the special tax and benefit assessment to be approved prior to the initiation of service. Approving an assessment within the City could present a challenge, as city residents currently receive mosquito abatement services from VCCSA without paying any additional fees.

- iii. A study was conducted in 1995 to analyze the efficiencies of ACMAD consolidating with Contra Costa Mosquito and Vector Control District (CCMVCD). The study found that a consolidation could result in a combined savings of \$135,000 annually. In response to the report, the ACMAD Board voted against consolidation, while the CCMVCD Board did not take action but indicated that they are willing to review the matter again at a later date if needed. The two agencies have not had any further discussions on the potential to consolidate.
      - iv. Another potential governance structure option is consolidation with VCCSA. Such a consolidation may offer savings by eliminating some administration costs. A challenge to consolidation may be the differing revenue levels and sources of each of the agencies.
2. Retain the countywide SOI which is larger than the jurisdictional boundary for the Alameda County Mosquito Abatement District as generally depicted in Exhibit A attached hereto, and encourage the District to annex the City of Albany.
3. Consider the criteria set forth in Government Code Section 56425(e) and determine as follows:
  - a. *The present and planned land uses in the area, including agricultural and open-space lands* – County policies support the provision of adequate mosquito abatement services for County residents. Land use plans in the County and its cities include land uses and population growth, which will require continued mosquito abatement services. The recommended SOI does not conflict with planned land uses. Mosquito abatement services are needed in all areas, and do not, by themselves, induce or encourage growth on agricultural or open space lands. No impacts upon Williamson Act protected land will occur.
  - b. *The present and probable need for public facilities and services in the area* – The demand for ACMAD’s services is generally correlated with the growth of the human population and vector populations. Any major changes in weather, food supplies or habitat modifications have an impact on the local vector populations.
  - c. *The present capacity of public facilities and adequacy of public services that the agency provides or is authorized to provide* – ACMAD’s service capacity is not limited by infrastructure but by staffing which appears to be sufficient to meet existing demand. Based on ACMAD’s reported speed of response to requests and its success in keeping mosquito-borne illnesses at bay, the District’s services appear to be adequate. ACMAD conducts performance evaluations and monitors productivity to improve service efficiency.
  - d. *The existence of any social or economic communities of interest in the area* – ACMAD serves residents countywide, with the exception of Albany; however, the City of Albany is also considered a community of interest, as it has a strong possibility of becoming a part of ACMAD.
  - e. *Nature, location, extent, functions & classes of services to be provided* – ACMAD provides monitoring, control and treatment of mosquito sources and infection levels in mosquitos and birds, coordinates activities with other public health agencies, and distributes educational materials on mosquito biology and control to the public within the district boundaries which encompass all of Alameda County, except for the City of Albany.
4. Determine, as lead agency for the purposes of the California Environmental Quality Act (CEQA), that update of the agency’s SOI and the related MSR are categorically exempt under Sections 15061(b)(3) and 15306, Class 6 of the CEQA Guidelines.

5. Direct staff to file a Notice of Exemption as lead agency under Section 15062 of the CEQA Guidelines.

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This Resolution was approved and adopted by the Alameda Local Agency Formation Commission at the public hearing held on January 10, 2013, at 7051 Dublin Blvd., Dublin, California on the motion made by Commissioner Haggerty, seconded by Commissioner Sbranti, and duly carried.

Ayes: 7 (Commissioners Haggerty, Miley, Sblendorio, Wieskamp, Johnson, Sbranti, and Marchand)  
 Noes:  
 Excused:

          /Nate Miley/            
 Nate Miley, Chair, Alameda LAFCo

Approved as to Form:

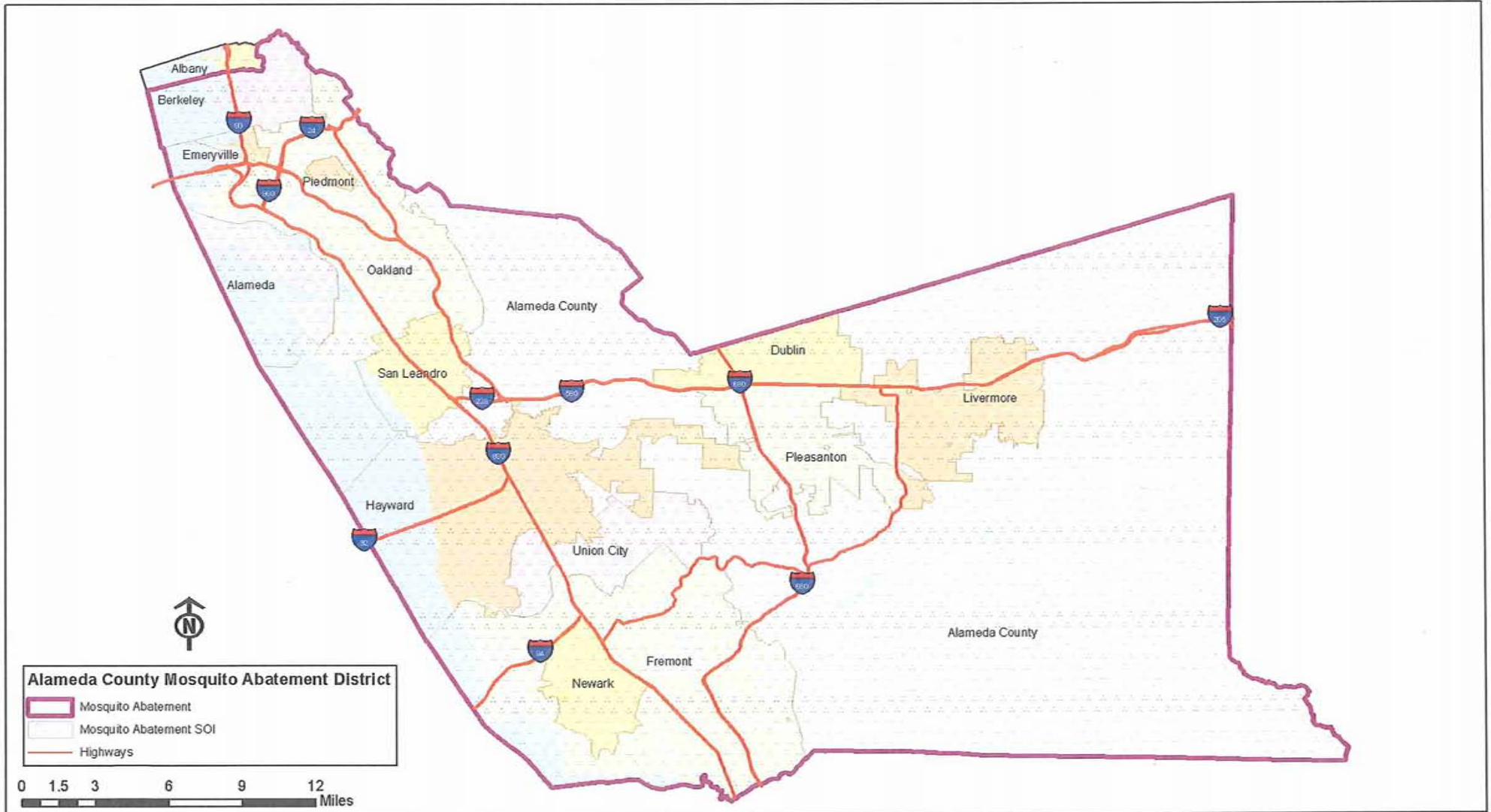
By:   
 Andrew Massey, LAFCo Legal Counsel

**CERTIFICATION:** I hereby certify that the foregoing is a correct copy of a resolution adopted by the Alameda Local Agency Formation Commission, Oakland, California.

Attest:   
 Mona Palacios, LAFCo Executive Officer

Date: 2/22/2013

### Alameda County Mosquito Abatement District Boundary and SOI\* Approved by Alameda County LAFCo, January 10, 2013



\*Agency sphere differs from the service area boundary

**ALAMEDA LOCAL AGENCY FORMATION COMMISSION  
RESOLUTION NO. 2013-06**

**Adopting Municipal Service Review Determinations, Sphere of Influence Determinations, and  
Updating the Sphere of Influence for the Vector Control County Service Area**

**WHEREAS**, Government Code Section 56425 et seq. requires the Local Agency Formation Commission (LAFCo) to develop and determine the sphere of influence (SOI) of each local governmental agency under LAFCo jurisdiction within the County; and

**WHEREAS**, Government Code Section 56425(g) requires that LAFCo review and update adopted SOI boundaries, as necessary, not less than once every five years; and

**WHEREAS**, Government Code Section 56430 requires that a municipal services review (MSR) be conducted prior to or in conjunction with a SOI update; and

**WHEREAS**, LAFCo conducted a municipal services review of the services provided by the Vector Control County Service Area (CSA); and

**WHEREAS**, the Vector Control CSA has a SOI that is countywide and coterminous to the CSA's jurisdictional boundary; and

**WHEREAS**, no change in regulation, land use or development will occur as a result of updating the CSA's coterminous SOI; and

**WHEREAS**, in the form and manner prescribed by law, the Executive Officer has given notice of a public hearing by this Commission regarding the SOI update action; and

**WHEREAS**, the MSR determinations, the SOI determinations and the SOI update were duly considered at a public hearing held on January 10, 2013; and

**WHEREAS**, the Alameda LAFCo heard and received all oral and written protests, objections and evidence that were made, presented or filed, and all persons present were given an opportunity to appear and be heard with respect to any matter pertaining to said action.

**NOW, THEREFORE, BE IT RESOLVED, DETERMINED AND ORDERED** that the Alameda LAFCo hereby:

1. Adopt the following MSR determinations:
  - a. Growth and Population Projections
    - i. As of 2010, the population within Vector Control CSA was 1,510,271.
    - ii. Based on Association of Bay Area Governments (ABAG) growth projections the population of the Vector Control CSA is anticipated to be 1,966,300 by 2035.
    - iii. Future growth is anticipated to be concentrated in the cities of Dublin, Emeryville and Livermore over the next 25 years. According to the Vector Control CSA, growth in demand for services is concentrated in the City of Fremont area.
  - b. Location and Characteristics of Any Disadvantaged Unincorporated Communities Within or Contiguous to the Sphere of Influence
    - i. Using Census Designated Places, Alameda LAFCo determines that there are no disadvantaged unincorporated communities that meet the basic state-mandated criteria within the County. Alameda LAFCo recognizes, however, that there are communities in the County that

experience disparities related to socio-economic, health, and crime issues, but the subject of this review is municipal services such as water, sewer, and fire protection services to which these communities, for the most part, have access.

c. *Present and Planned Capacity of Public Facilities and Adequacy of Public Services, Including Infrastructure Needs and Deficiencies*

- i. Demand for vector control services is driven by growth of both human and vector populations.
- ii. Based on the response time of typically within 24 hours that the Vector Control CSA is able to maintain with approximately 23 requests per day, it appears that the CSA has sufficient capacity to continue to serve existing and anticipated demand.
- iii. There are no present or recent public health advisories concerning mosquito or vector-borne illnesses in the areas served by the Vector Control CSA. The CSA has been successful in eliminating the outbreak of illnesses including plague and encephalitis.
- iv. Since 2005, the Vector Control CSA has purchased three new vehicles, two smoke detectors to test sewer breaks, two microscopes, and updated all information technology equipment.
- v. No infrastructure needs or deficiencies were identified for the Vector Control CSA.

d. *Financial Ability of Agency to Provide Services*

- i. The Vector Control CSA reported that its financing levels were adequate to deliver services. No challenges to financing were identified.
- ii. The Vector Control CSA had just over nine months of expenditures in unrestricted reserves at the end of FY 10-11, which is sufficient to weather any short-term financial challenges.
- iii. The City of Albany is the only area in the County where the Vector Control CSA provides mosquito abatement services. The CSA does not assess property owners in that city any additional fee for the service.
- iv. The Vector Control CSA does not have any long-term debt.
- v. The Vector Control CSA uses a pay-as-you-go approach to capital improvement financing.

e. *Status and Opportunities for Shared Facilities*

- i. The Vector Control CSA engages in joint financing arrangements related to insurance and workers compensation.
- ii. The Vector Control CSA manages statistical data, and works cooperatively with the 13 local animal control agencies to administer the rabies surveillance program in Alameda County.
- iii. The Vector Control CSA participates in a countywide integrated pest management policy set by the Board of Supervisors.
- iv. There may be an opportunity for the Vector Control CSA to share specialized equipment and vehicles with the Alameda County Mosquito Abatement District (ACMAD).

f. *Accountability for Community Services, Including Governmental Structure and Operational Efficiencies*

- i. The Vector Control CSA is governed by the Alameda County Board of Supervisors. The Board updates constituents, broadcasts its meetings, solicits constituent input, discloses its finances, and posts public documents on its website.
- ii. The CSA demonstrated accountability in its cooperation with LAFCo requests for information.
- iii. A governance structure option is for the Vector Control CSA to discontinue mosquito abatement services in the City of Albany and for ACMAD to annex the City. The Vector Control CSA would continue providing vector control services countywide. At present, ACMAD's sphere of influence is countywide, indicating LAFCo's anticipation that ACMAD will eventually take on services in Albany.
- iv. Another potential governance structure option is consolidation with ACMAD. Such a consolidation may offer savings by eliminating some administration costs. A challenge to consolidation may be the differing revenue levels and sources of each of the agencies.



2. Retain the countywide, coterminous SOI for the Vector Control CSA as generally depicted in Exhibit A attached hereto.
  
3. Consider the criteria set forth in Government Code Section 56425(e) and determine as follows:
  - a. *The present and planned land uses in the area, including agricultural and open-space lands* – The Vector Control CSA encompasses every land use designated by the County and the incorporated cities within its bounds, including agricultural and open-space lands. The SOI is consistent with planned land uses. While there are agricultural and open-space lands within CSA, no impacts on agricultural resources, open space or Williamson Act contracts will occur as no service changes are proposed.
  
  - b. *The present and probable need for public facilities and services in the area* –Given that the Vector Control CSA averaged 23 requests for service per day in FY 10-11, there is a present need for the CSA’s services. The Vector Control CSA’s population is expected to grow indicating an ongoing need for the CSA’s services. The CSA will continue to monitor other vector borne illnesses, such as Lyme disease, Hantavirus pulmonary syndrome and plague.
  
  - c. *The present capacity of public facilities and adequacy of public services that the agency provides or is authorized to provide* –Based on the response time of typically within 24 hours that the Vector Control CSA is able to maintain with approximately 23 requests per day in FY 11, it appears that the CSA has sufficient capacity to continue to serve existing and anticipated demand. There are no present or recent public health advisories concerning mosquito or vector-borne illnesses in the areas served by the CSA. The CSA has been successful in reducing the outbreak of illnesses including plague and encephalitis.
  
  - d. *The existence of any social or economic communities of interest in the area* – The Vector Control CSA was formed to provide countywide vector control services and serve the residents of Alameda County. All County residents benefit from services provided by the CSA. Property owners that pay a benefit assessment to the CSA have a particular economic interest in its activities.
  
  - e. *Nature, location, extent, functions & classes of services to be provided* –The Vector Control CSA is responsible for providing vector control services, including controlling public health dangers carried by rats, fleas, ticks, mites, flies, and other insects. The CSA investigates public concerns and provides educational information regarding vectors and vector-borne diseases. The agency oversees the administration of quarantine measures regarding animal bites, investigates nuisances, and removes nuisance wildlife (skunks and raccoons) when preventative alternatives are infeasible or likely to be ineffective. The CSA conducts rodent suppression, surveys of rat populations, and inspection and baiting of sewers for rats. Supplemental services for the City of Oakland involve surveillance and control of a severe rat population originating in the City’s sewer system. The CSA also provides mosquito control services in the City of Albany.
  
4. Determine, as lead agency for the purposes of the California Environmental Quality Act (CEQA), that update of the agency’s SOI and the related MSR are categorically exempt under Sections 15061(b)(3) and 15306, Class 6 of the CEQA Guidelines.
  
5. Direct staff to file a Notice of Exemption as lead agency under Section 15062 of the CEQA Guidelines.

\* \* \* \* \*

This Resolution was approved and adopted by the Alameda Local Agency Formation Commission at the public hearing held on January 10, 2013, at 7051 Dublin Blvd., Dublin, California on the motion made by Commissioner Haggerty, seconded by Commissioner Sbranti, and duly carried.

Ayes: 7 (Commissioners Haggerty, Miley, Sblendorio, Wieskamp, Johnson, Sbranti, and Marchand)  
Noes:  
Excused:

/Nate Miley/

Nate Miley, Chair, Alameda LAFCo


Approved as to Form:

By:

  
Andrew Massey, LAFCo Legal Counsel

**CERTIFICATION:** I hereby certify that the foregoing is a correct copy of a resolution adopted by the Alameda Local Agency Formation Commission, Oakland, California.

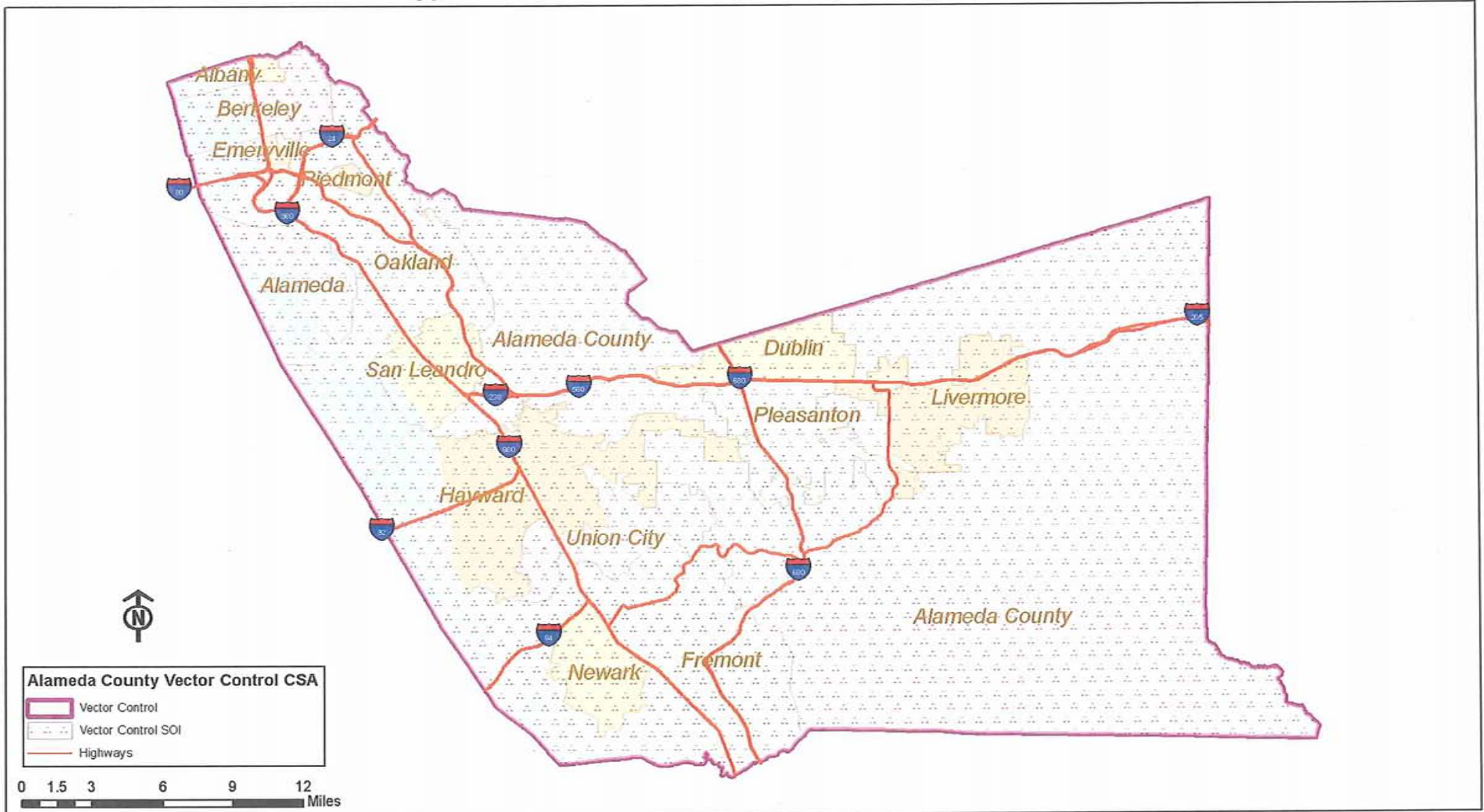
Attest:

  
Mona Palacios, LAFCo Executive Officer

Date:

2/22/2013

### Alameda County Vector Control CSA Boundary and SOI\* Approved by Alameda County LAFCo, January 10, 2013



\*Agency sphere equals the service area boundary

Created for Alameda LAFCo by the Alameda County Community Development Agency

Alameda County Mosquito Abatement Dist.  
**Check Register**  
 For the Period From Sep 1, 2019 to Sep 15, 2019

Filter Criteria includes: Report order is by Date.

<b>Check #</b>	<b>Date</b>	<b>Payee</b>	<b>Amount</b>
1812	9/15/19	Payroll	77,541.31
1813	9/15/19	Airgas	612.61
1814	9/15/19	All-Ways Green Services	410.00
1815	9/15/19	Argo Adventure	359.14
1816	9/15/19	ARS Rescue Rooter	395.00
1817	9/15/19	BARTKIEWICZ, KRONICK & SHANAHAN	213.98
1818	9/15/19	Bay Alarm	1,674.00
1819	9/15/19	CalPERS 457	2,742.94
1820	9/15/19	Cintas	667.28
1821	9/15/19	Clarke	1,340.91
1822	9/15/19	Grainger	227.61
1823	9/15/19	Guaranteed Auto Service	201.10
1824	9/15/19	Greenwood & Moore, Inc.	5,435.50
1825	9/15/19	Industrial Park Landscape Maintenance	215.00
1826	9/15/19	Integrated DNA Technologies, Inc	533.39
1827	9/15/19	KBA Docusys	549.58
1828	9/15/19	PG&E	54.43
1829	9/15/19	PFM Asset Management	1,683.95
1830	9/15/19	PC Professional	327.81
1831	9/15/19	San Mateo County Mosquito and Vector	906.58
1832	9/15/19	The Hartford	77.78
1833	9/15/19	Voya Institutional Trust Company	177.41
1834	9/15/19	U.S Bank Corporate Payment System	16,939.93
ACH	9/15/19	CalPERS Retirement	13,106.57
<b>Total Expenditures - September 15, 2019</b>			<b>126,393.81</b>

Alameda County Mosquito Abatement Dist.  
**Check Register**  
For the Period From Sep 16, 2019 to Sep 30, 2019

Filter Criteria includes: Report order is by Date.

<b>Check #</b>	<b>Date</b>	<b>Payee</b>	<b>Amount</b>
1835	9/26/19	Payroll	76,404.43
1836	9/26/19	Eric Armin Hentschke	100.00
1837	9/30/19	Wendi Lynn Poulson	100.00
1838	9/30/19	George Young	100.00
1839	9/30/19	Airgas	466.72
1840	9/30/19	CalPERS 457	2,742.94
1841	9/30/19	Cintas	522.86
1842	9/30/19	Grainger	45.57
1843	9/30/19	Guaranteed Auto Service	155.70
1844	9/30/19	PG&E	1,959.50
1845	9/30/19	Pitney Bowes	94.82
1846	9/30/19	R.P Coating, Inc.	12,229.00
1847	9/30/19	Treds	480.00
1848	9/30/19	Univar	6,606.07
1849	9/30/19	Voya Institutional Trust Company	177.41
1850	9/30/19	VSP	674.60
1851	9/30/19	Verizon	1,469.33
1852	9/30/19	Waste Management of Alameda County	272.16
1853	9/30/19	WEX Bank	3,451.62
ACH	9/30/19	CalPERS Retirement	13,040.16
ACH	9/30/19	CalPERS Health	32,528.44
ACH	9/30/19	Victor Aguilar	100.00
ACH	9/30/19	P. Robert Beatty	100.00
ACH	9/30/19	Subrahmanya Y Bhat	100.00
ACH	9/30/19	Alan Brown	100.00
ACH	9/30/19	Elizabeth Cooley	100.00
ACH	9/30/19	Elisa Marquez	100.00
ACH	9/30/19	Jan Washburn	100.00
<b>Total Expenditures - September 30, 2019</b>			<b>154,321.33</b>

**Alameda County Mosquito Abatement District  
Income Statement  
September 30, 2019. (3 of 12 mth, 25%)**

REVENUES	Actual 2017/18	Actual 2018/19 <sup>1</sup>	Current Month	Year to Date 2019/20	Budget 2019/20	Actual vs Budget
<b>Total Revenue</b>	<b>\$ 4,623,350.00</b>	<b>\$ 4,063,848.12</b>	<b>\$ 109,303.81</b>	<b>\$ 339,637.32</b>	<b>\$ 4,705,236.00</b>	<b>7%</b>

EXPENDITURES	Actual 2017/18	Actual 2018/19 <sup>1</sup>	Current Month <sup>2</sup>	Year to Date 2019/20	Budget 2019/20	Actual vs Budget
Salaries	\$1,744,412	\$ 1,874,396.01	\$ 168,766.33	\$ 510,352.76	\$2,425,552	21%
CalPERS Retirement	\$262,107	\$ 310,838.21	\$ 14,920.58	\$ 231,856.40	\$360,538	64%
Medicare	\$23,564	\$ 25,149.24	\$ 2,246.26	\$ 6,794.04	\$30,843	22%
Fringe Benefits	\$449,954	\$ 452,960.30	\$ 33,280.82	\$ 114,027.85	\$502,043	23%
<b>Total Salaries, Retirement, &amp; Benefits</b>	<b>\$2,480,037</b>	<b>\$ 2,663,343.76</b>	<b>\$219,214</b>	<b>\$863,031</b>	<b>\$3,318,976</b>	<b>26%</b>
Clothing and personal supplies (purchased)	\$ 7,308.71	\$ 8,899.04	\$ -	\$ 818.62	\$8,000	10%
Laundry service and supplies (rented)	\$ 9,819.37	\$ 12,602.62	\$ 1,190.14	\$ 3,886.37	\$12,750	30%
Utilities	\$ 29,830.25	\$ 30,161.25	\$ 2,286.09	\$ 7,349.31	\$12,600	58%
Communications-IT	\$ 102,855.59	\$ 108,886.22	\$ 6,173.65	\$ 11,223.42	\$117,100	10%
Maintenance: structures & improvements	\$ 21,374.70	\$ 13,673.39	\$ 999.89	\$ 2,078.32	\$25,000	8%
Maintenance of equipment	\$ 43,585.45	\$ 43,628.61	\$ (1,612.22)	\$ 1,308.35	\$35,000	4%
Transportation, travel, training, & board	\$ 131,330.43	\$ 98,432.96	\$ 4,661.87	\$ 18,581.65	\$134,260	14%
Professional services	\$ 100,563.13	\$ 112,944.66	\$ 5,520.26	\$ 36,230.95	\$169,320	21%
Memberships, dues, & subscriptions	\$ 15,933.00	\$ 20,773.00	\$ -	\$ 12,842.00	\$22,655	57%
Insurance - (VCJPA, UAS)	\$ 131,392.69	\$ 125,189.76	\$ -	\$ 133,141.92	\$133,546	100%
Community education	\$ 64,109.47	\$ 34,860.85	\$ 84.10	\$ 6,033.27	\$40,000	15%
Operations	\$ 176,000.00	\$ 206,731.27	\$ 8,165.87	\$ 43,019.22	\$228,500	19%
Household expenses	\$ 18,101.06	\$ 18,656.19	\$ 2,177.89	\$ 5,598.77	\$15,850	35%
Office expenses	\$ 10,753.26	\$ 11,795.67	\$ 815.36	\$ 1,324.13	\$14,500	9%
Laboratory supplies	\$ 113,768.06	\$ 95,640.16	\$ 11,782.57	\$ 29,147.50	\$137,000	21%
Small tools and instruments	\$ 8,376.29	\$ 2,211.74	\$ 159.31	\$ 159.31	\$3,000	5%
<b>Total Staff Budget</b>	<b>\$ 985,101.46</b>	<b>\$ 945,087.39</b>	<b>\$ 42,404.78</b>	<b>\$ 312,743.11</b>	<b>\$1,109,081</b>	<b>28%</b>
<b>Total Operating Expenditures</b>	<b>\$ 3,465,138.55</b>	<b>\$ 3,608,431.15</b>	<b>\$ 261,618.77</b>	<b>\$ 1,175,774.16</b>	<b>\$4,428,057</b>	<b>27%</b>

1 - Unaudited amount, as of July 31, 2019.

2 - Total Operating Expenditures in current month do not match the check register due to accounts receivable, capital purchases, and petty cash transactions.

**Alameda County Mosquito Abatement District  
Investment, Reserves, and Cash Balance Report  
September 30, 2019. (3 of 12 mth, 25%)**

Account #	Investment Accounts	Beginning Balance	Deposits	Withdrawals	Interest Activity	Ending Balance
1004	LAIF	\$ 1,496,524.18	\$ -	\$ (267,000.00)	\$ -	\$ 1,229,524.18
1005	OPEB Fund	\$ 4,398,925.50	\$ -	\$ -	\$ 12,182.18	\$ 4,411,107.68
1006	VCJPA Member Contingency	\$ 348,346.00	\$ -	\$ -	\$ -	\$ 348,346.00
1007	VCJPA Property Contingency	\$ 52,025.00	\$ -	\$ -	\$ -	\$ 52,025.00
1008	CAMP: Repair and Replace	\$ 292,221.38	\$ -	\$ (1,066.44)	\$ 532.13	\$ 291,687.07
1009	CAMP: Public Health Emergency	\$ 518,835.30	\$ -	\$ -	\$ 946.97	\$ 519,782.27
1010	CAMP: Operating Reserve	\$ 1,917,042.00	\$ -	\$ -	\$ 3,498.94	\$ 1,920,540.94
1011	CAMP: Capital Reserve Fund	\$ 232,252.87	\$ -	\$ -	\$ 423.90	\$ 232,676.77
1012	PARS: Pension Stabilization <sup>1</sup>	\$ 1,068,621.96	\$ 500,000.00	\$ -	\$ 7,489.32	\$ 1,576,111.28
<b>Total</b>		<b>\$ 10,324,794.19</b>				<b>\$ 10,581,801.19</b>
Cash Accounts		Beginning Balance		Withdrawals	Activity	Ending Balance
1001	Bank of America (Payroll Account) *	\$ 119,575.72				\$ 114,822.40
1002	Bank of The West (Transfer Account) *	\$ 362,892.01				\$ 302,894.17
1003	County Account	\$ 449,319.92			\$ 108,223.42	\$ 557,543.34
1013	Petty Cash	\$ 492.74			\$ (51.30)	\$ 441.44
<b>Total</b>		<b>\$ 932,280.39</b>				<b>\$ 975,701.35</b>

1- PARS - Pension Stabilization balance is as of August 31, 2019.

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

Alameda County Mosquito Abatement Dist.  
Balance Sheet  
September 30, 2019

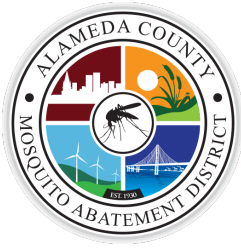
ASSETS

Current Assets		
Cash	\$	4,411,107.68
Bank of America payroll		114,075.08
Bank of the West		392,566.23
County		557,543.34
Cash with LAIF		1,229,524.18
VCJPA - Property Contingency		52,025.00
VCJPA- Member Contingency		348,346.00
CAMP - Repair and Replace		291,687.07
CAMP - Public Health Emergency		519,782.27
CAMP - Operating Reserve		1,920,540.94
CAMP - Capital Reserve Fund		232,676.77
PARS		1,576,111.28
Petty cash		<u>441.44</u>
Total Current Assets		11,646,427.28
Property and Equipment		
Acc Dep - equipment	(1,306,030.50)	
Acc Dep - stru & improv	(2,316,874.89)	
Construction in progress		468,270.42
Equipment		1,619,670.10
Structure/improvement		4,529,022.67
Land		<u>61,406.00</u>
Total Property and Equipment		3,055,463.80
Other Assets		
Net OPEB Asset		<u>716,666.00</u>
Total Other Assets		<u>716,666.00</u>
Total Assets		<u><u>\$ 15,418,557.08</u></u>

LIABILITIES AND CAPITAL

Current Liabilities		
Accounts payable	\$	103,943.20
Acc payroll/vacation		167,855.50
Def inflow - 75		41,760.00
Def inflow pen defer GASB 68		809,861.00
Defer outflow pen cont GASB 68		(818,392.00)
Net pension liability GASB 68		<u>2,642,666.00</u>
Total Current Liabilities		2,947,693.70
OPEB Fund		<u>4,411,107.68</u>
Total Liabilities		7,358,801.38
Capital		
Designated fund balances		4,100,295.19
Investment in general fixed as		4,702,022.77
Net Income		<u>(742,562.26)</u>
Total Capital		<u>8,059,755.70</u>
Total Liabilities & Capital		<u><u>\$ 15,418,557.08</u></u>





23187 Connecticut Street  
Hayward, CA 94545

T: (510) 783-7744  
F: (510) 783-3903

[acmad@mosquitoes.org](mailto:acmad@mosquitoes.org)

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Subru Bhat

### **Union City**

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General Manager

## MONTHLY STAFF REPORT – October 2019

### 1. OPERATIONS REPORT

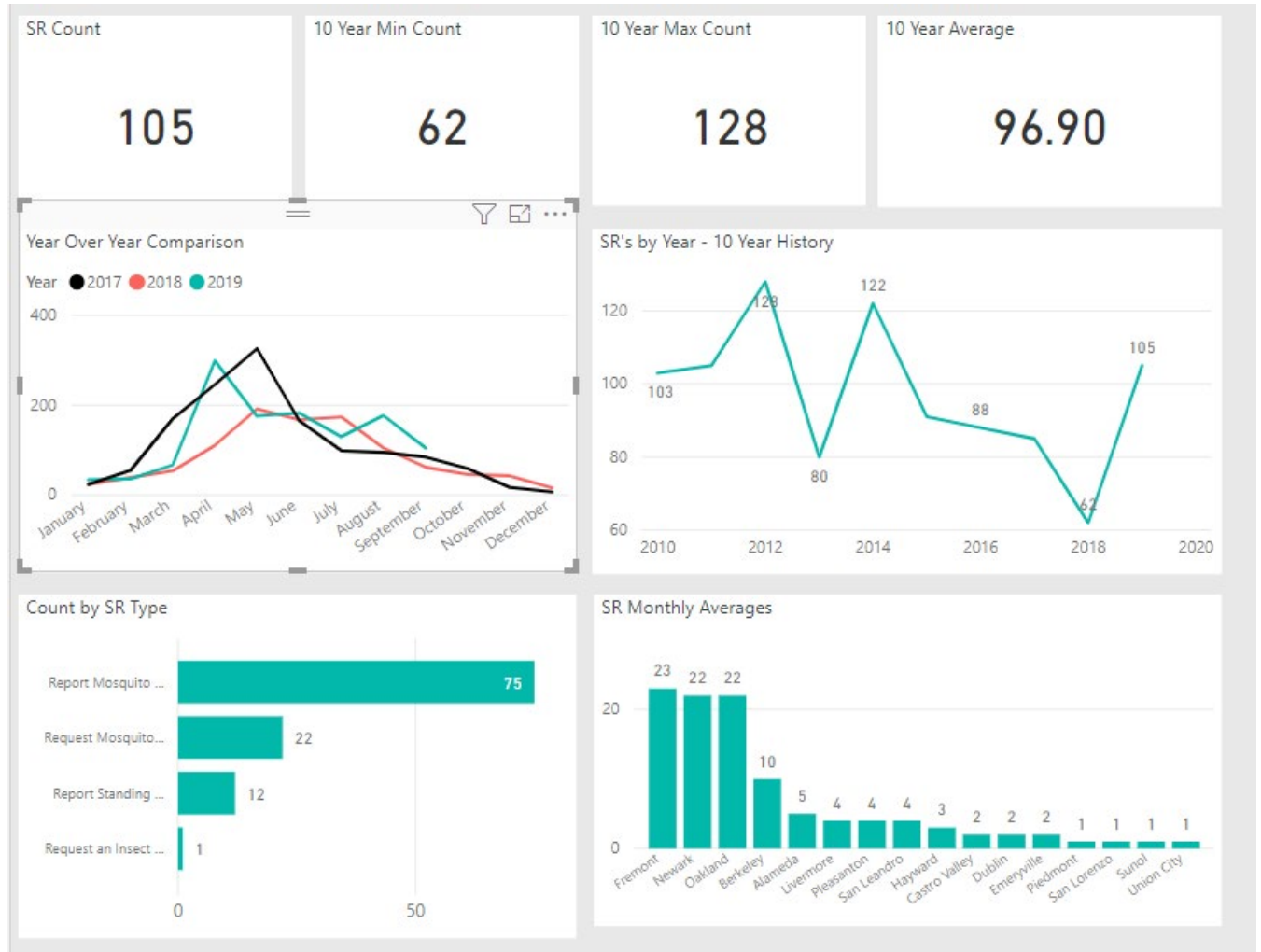
During September, operations staff began work on ditches in two regions of the county as our permit went into effect on September 1<sup>st</sup>. Work will be conducted on ditches twice a week until the permit expires in the first quarter of 2020. The goal is to clear existing ditches of silt and vegetation to increase water flow and to prevent pooling that provides mosquito breeding habitat. Most of the sources receiving this work are influenced by high tide events and the goal is to prevent or limit breeding habitat for *Aedes dorsalis*. Last season's efforts have yielded positive results in areas that received work. The one non-tidal source ditched last season functioned so well that it only required one hand treatment in the post-ditching season. This source had often required several acres of treatment on upwards of 7-9 times in each season for *Aedes squamiger*, *Culiseta inornata*, and *Culex tarsalis*. Years of not having a ditching permit has resulted in many ditches being choked by silt, vegetation, and debris. Consistent work on these ditches year after year makes cleaning these ditches a much less labor-intensive task and makes the work safer for operations staff. Prioritizing which ditches to focus on each season is based on mosquito breeding data, proximity of the sources to resident populations, and weather-dependent access issues.

September was again a significant month for *Aedes dorsalis*. Half of the calls received from the public to report mosquitoes were attributable to *Ae. dorsalis*. This species made its presence known in our entire region with several other counties receiving enough impact to garner the attention of local news channels. Reports from almost every district in the San Francisco bay and delta which abut salt marshes share their uncommonly high numbers of adult emergence. This species is a very aggressive day-biting mosquito and females can travel long distances to obtain a blood-meal. As with most *Aedes spp.* they prefer mammalian blood and quickly capture people's attention when present in even low numbers.

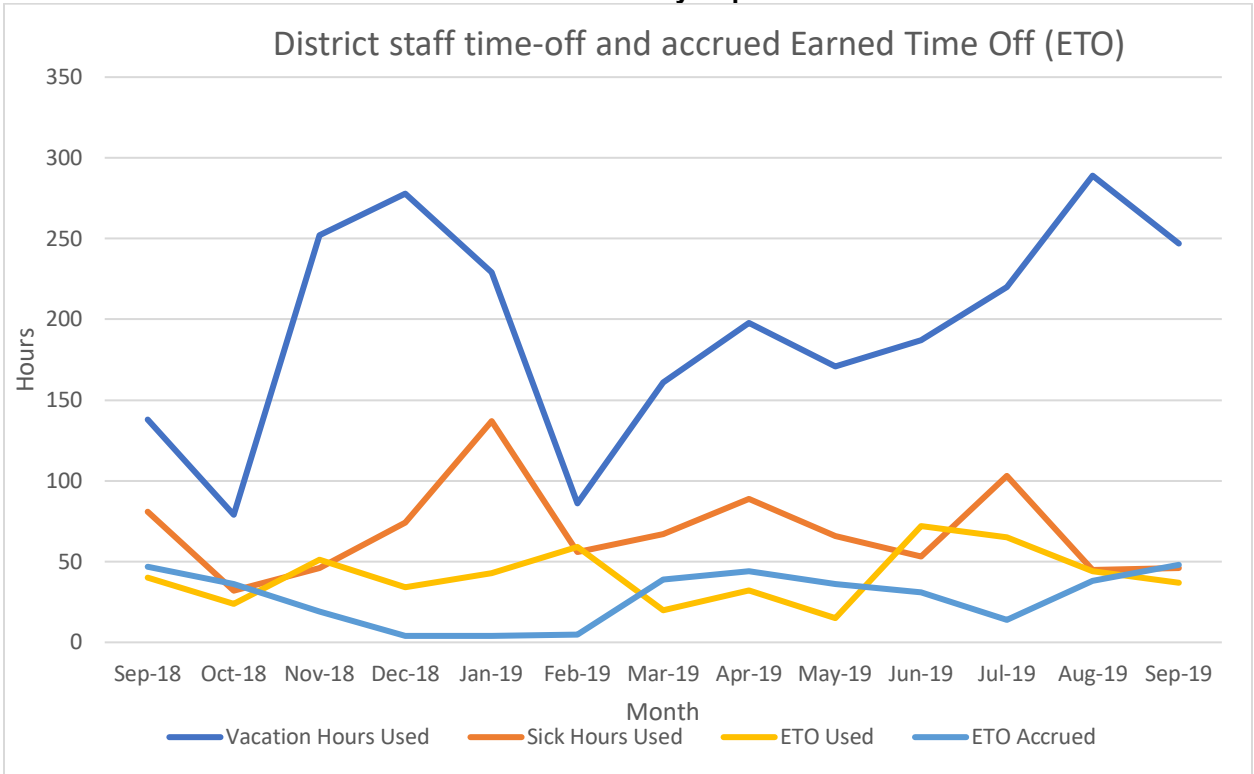
Operations staff continued to work on all three of our main *Culex spp.* during September as well. Adult numbers for all three remained at historic lows as reflected in District data. Catch basins, storm drains, canals, sewer plants, freshwater marshes, and unmaintained swimming pools were inspected and treated for *Culex tarsalis* and *Culex pipiens* to keep adult populations of these potential West Nile Virus (WNV) vectors as low as possible. To date, no positive WNV birds or mosquito samples have been documented in Alameda county this year while there are reports from adjacent counties. Operations staff will continue these efforts until the WNV season winds down and these species become much less active. This usually occurs in later October or early November triggered by the first significant rainfall events, cooling temperatures, and a shift in the photoperiod.

Field Operations Supervisor  
Joseph Huston

## A. Service Requests

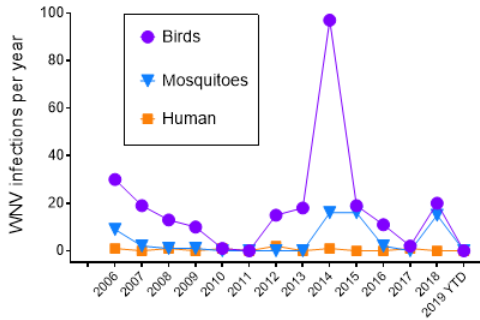


### B. Activity Report

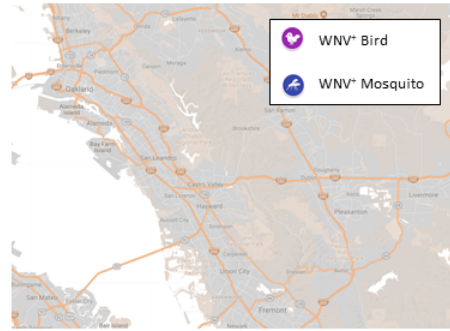


### C. WNV Activity

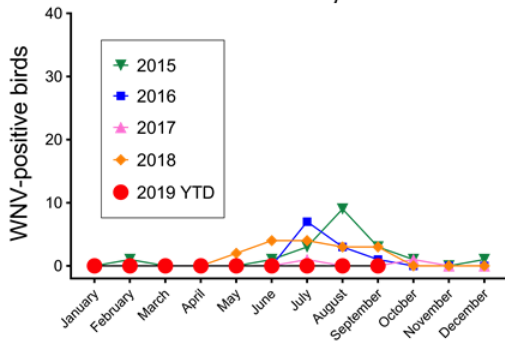
WNV infections detected in Alameda County 2005 – 2019 YTD



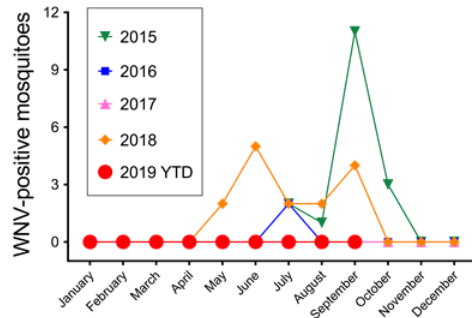
Locations of WNV-infected mosquitoes and birds collected in Alameda County during 2019



WNV-infected birds collected in Alameda County



WNV-infected mosquitoes collected in Alameda County



## 2. LAB

### Summary

- West Nile virus (WNV) was not detected in birds or mosquitoes during September.
- Adult mosquito abundance during September 2019 was slightly lower than the prior year.
- An adult *Culex thriambus* was collected in Livermore during September 2019, the first such detection recorded since 2001, the first year of abundance data that is currently available in District electronic records.

### Arbovirus Monitoring

- West Nile virus (WNV) was not detected in birds or mosquitoes during September 2019.
- None of the mosquitoes or birds that were collected during 2019 were found to contain Saint Louis encephalitis virus (SLEV) or Western equine encephalitis virus (WEEV).

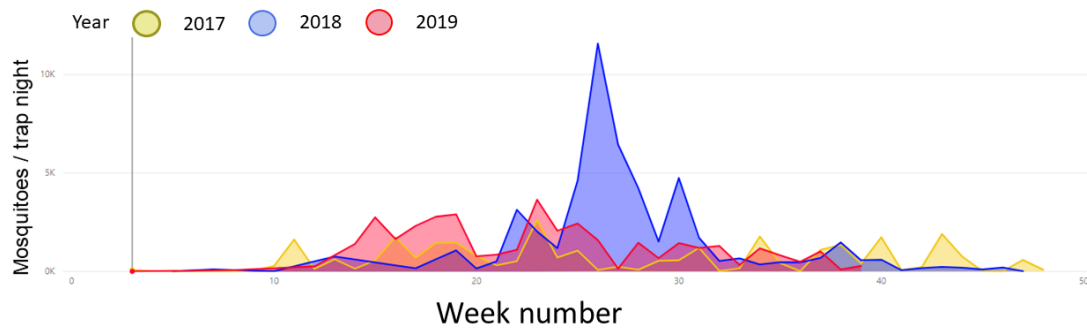
### Native Mosquito Abundance

- Over the course of the month, 207 EVS CO<sub>2</sub> traps were placed; 1,870 mosquitoes were collected and identified to species (Figure 1). There was an average of 9.0 mosquitoes per trap night, a 1.2-fold decrease in the number of mosquitoes per trap night relative to the prior month (n = 3,033 mosquitoes collected with 11.4 mosquitoes / trap night during August 2019). *Culex erythrothorax* remained the most abundant species collected in EVS CO<sub>2</sub> traps, followed by *Culex tarsalis*, and *Culex pipiens* (Figure 2). The geospatial distribution of mosquito species collected in EVS CO<sub>2</sub> traps at each trap site in the county is displayed in Figure 3a. Overall, mosquito abundance during September 2019 as measured by EVS CO<sub>2</sub> traps was lower than the prior year (Figure 2; 2019, red line; 2018, blue line), and similar to the same period of 2017 (Figure 1; 2017, yellow line).
- An adult *Culex thriambus* was collected in Livermore during September 2019, the first such detection recorded since 2001, the first year of abundance data that is currently available in District electronic records.
- Mosquito abundance, as measured using NJLT, was slightly lower than the prior month (Figure 4; 0.68 and 0.85 mosquitoes / trap night, respectively; total of 506 mosquitoes over 742 trap nights). Similar to the prior month, *Culiseta incidens* was the most prevalent species collected in NJLT during September 2019, followed by *Anopheles franciscanus* and *Culex tarsalis* (Figure 5).

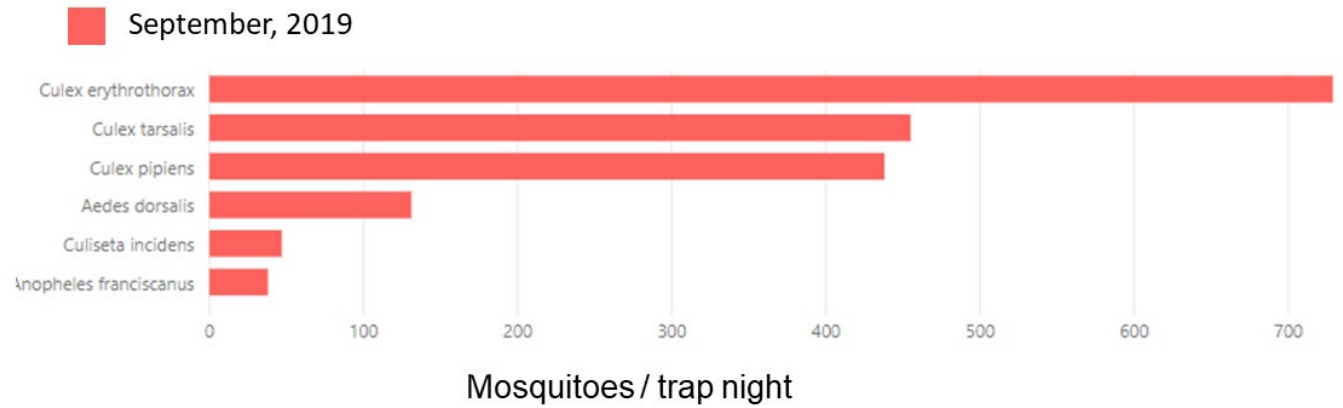
### Invasive Aedes Monitoring

- Invasive *Aedes* mosquitoes have not been detected in any mosquito trap placed in Alameda County during 2019.

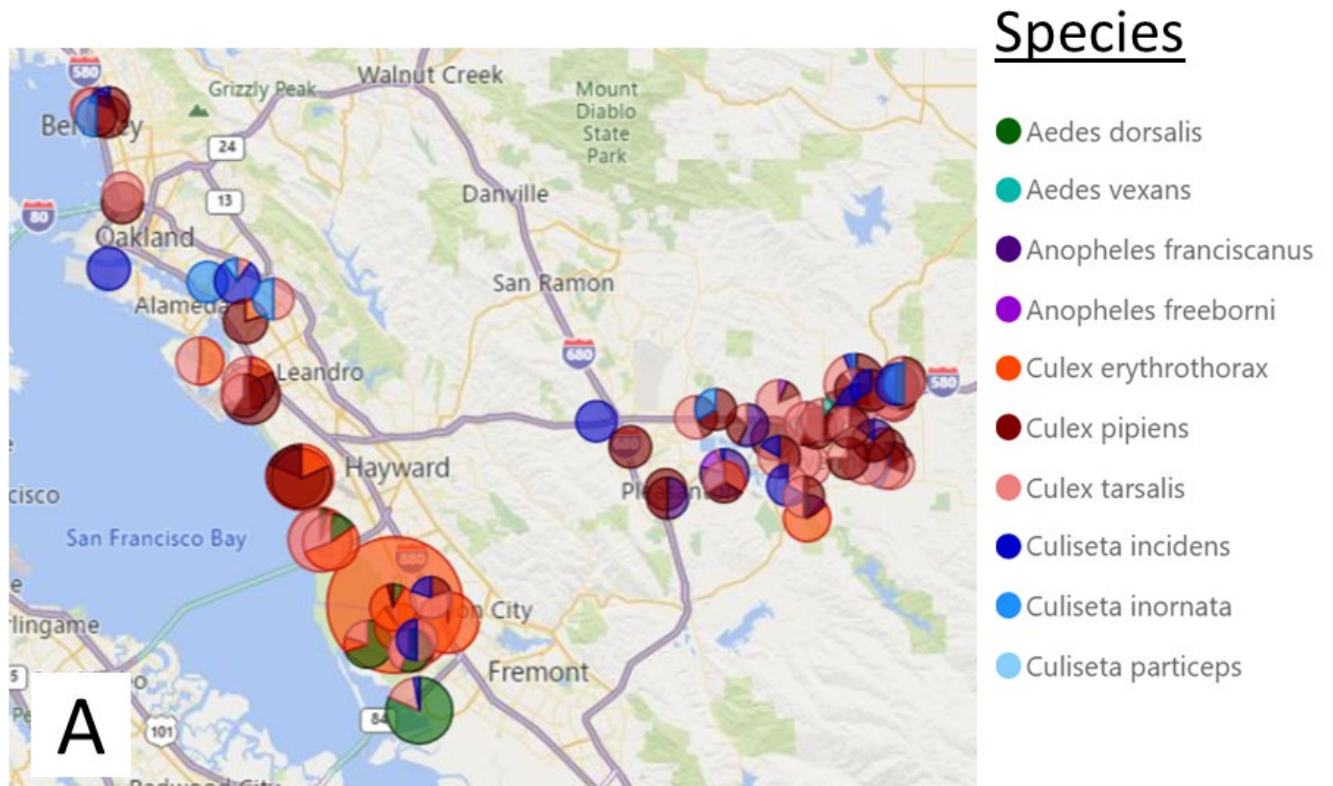
## FIGURES

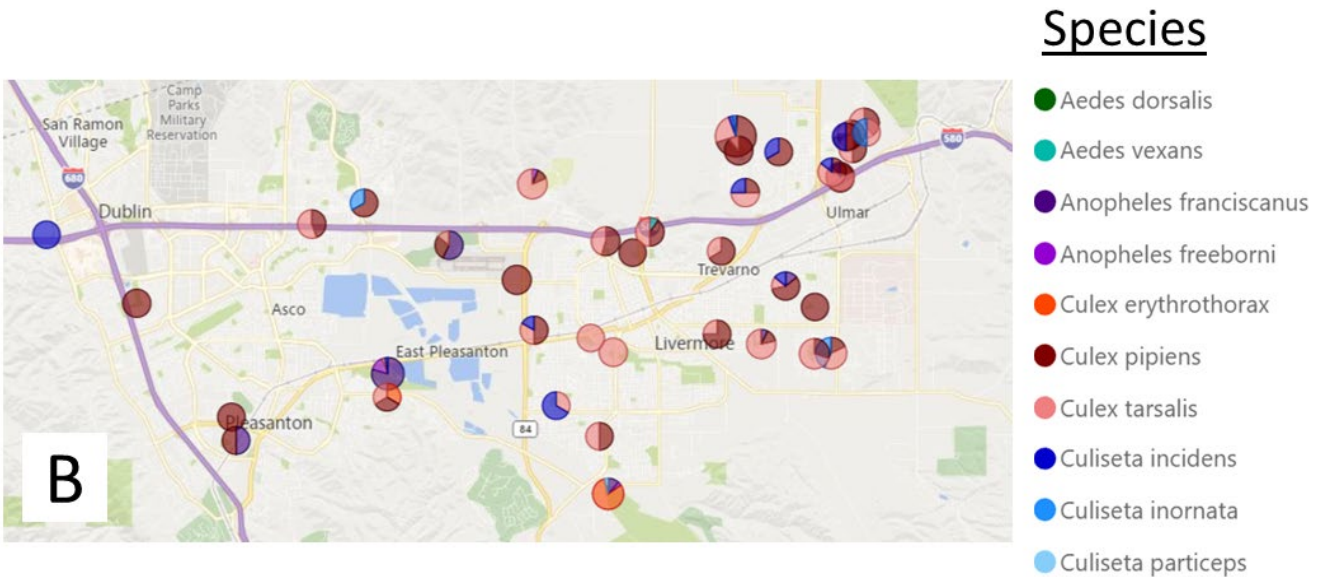


**Figure 1. Mosquitoes captured in EVS CO<sub>2</sub> traps from 2017 – 2019.** A total of 1,870 mosquitoes were captured in EVS CO<sub>2</sub> traps during September 2019 and identified to species.

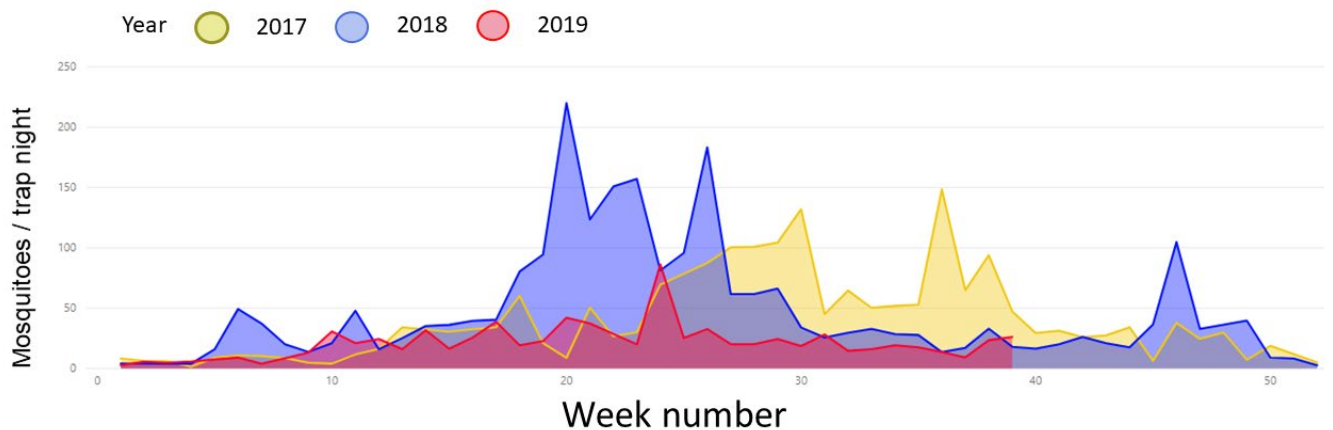


**Figure 2. The six-most abundant species of mosquito captured during September 2019 using EVS CO<sub>2</sub> traps.**

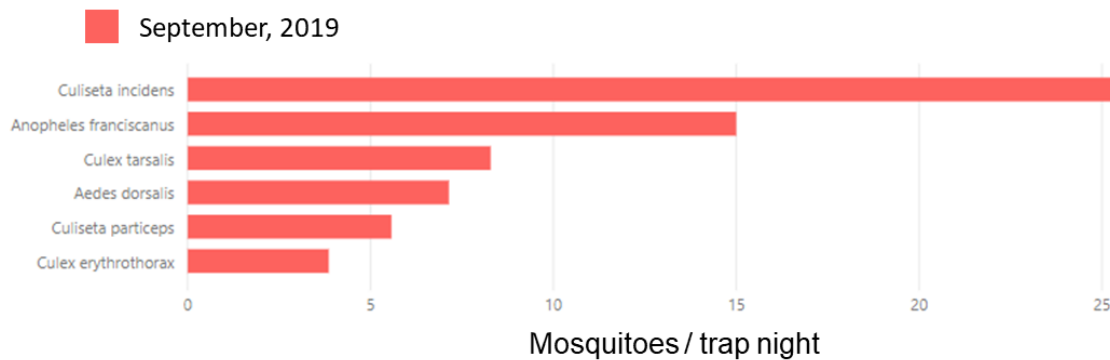




**Figure 3. Mosquito abundance by trap site evaluated using EVS CO<sub>2</sub> traps.** Pie charts over trap sites indicate the distribution of mosquito species collected at the trap site. The size of the pie charts indicates the relative number of mosquitoes at each site during September 2019. Sites with three or fewer mosquitoes collected in the traps are not shown on the map. (A) Entirety of Alameda County. (B) Eastern Alameda County.



**Figure 4. Mosquitoes captured in NJLT from 2017 – 2019.** A total of 506 mosquitoes were captured in NJLT during September 2019 and identified to species.



**Figure 5. The six-most abundant species of mosquito captured during September 2019 in NJLT.**

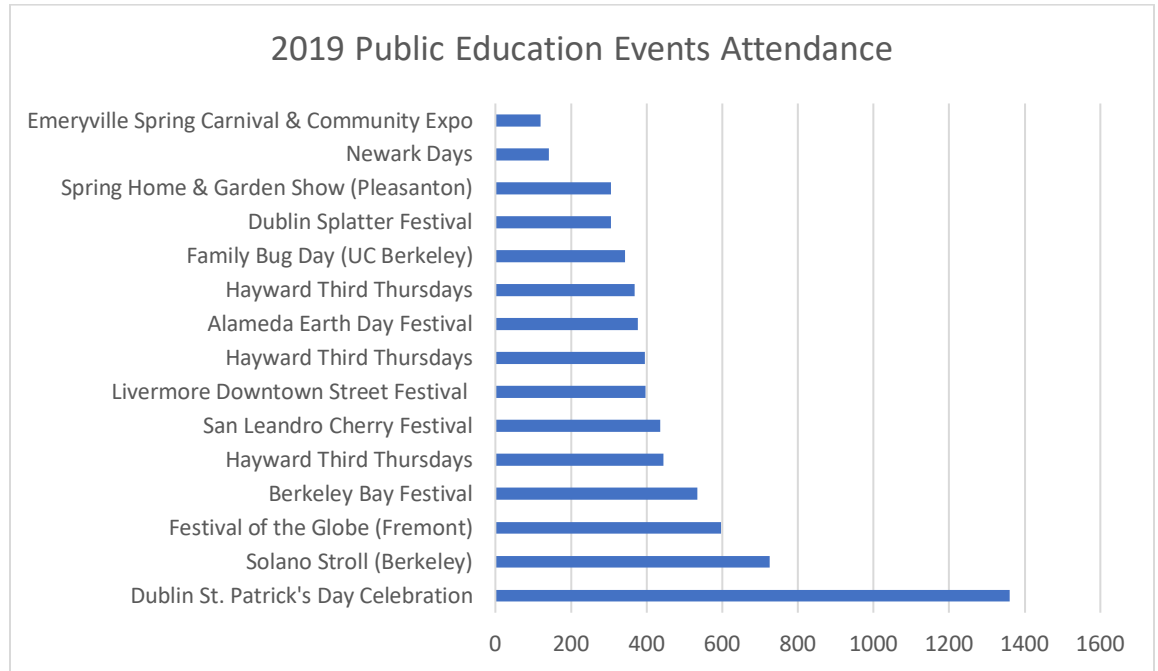
**PUBLIC EDUCATION**

**A. Events**

**i. Upcoming**

- **Oaktoberfest** – Saturday, October 5<sup>th</sup> and Sunday, October 6<sup>th</sup> (Oakland)
- **Dia de los Muertos Festival** – Saturday, November 2<sup>nd</sup> (Oakland)

**ii. Past**

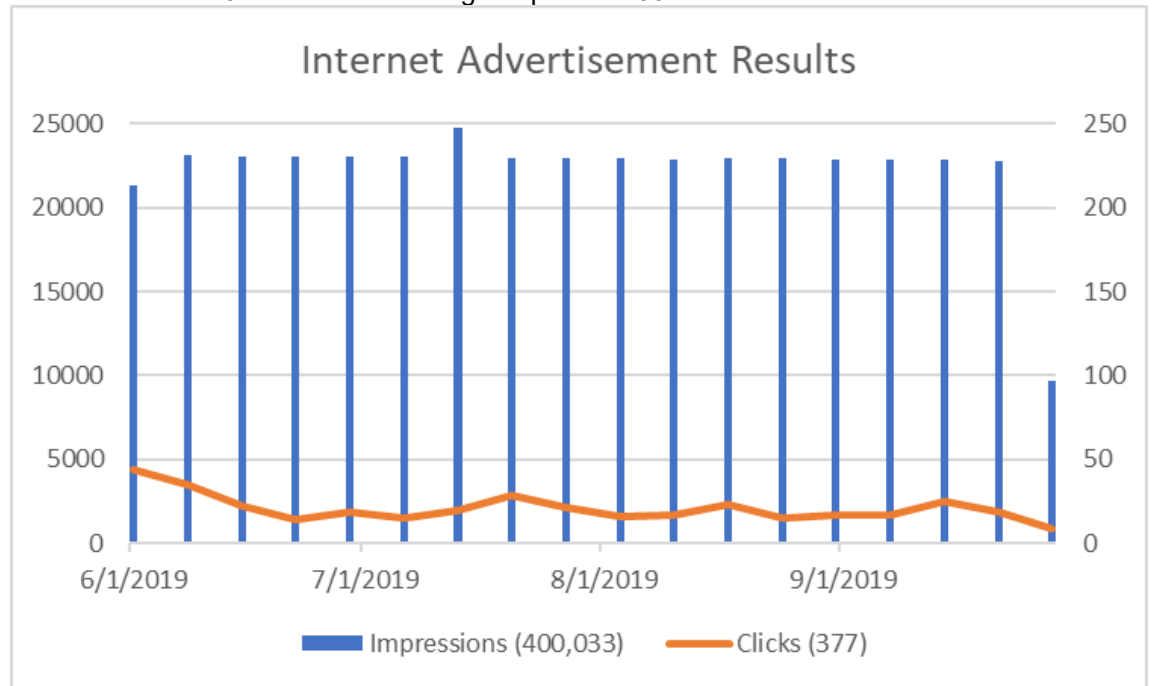


**Figure 1. Number of visitors that attended each event**

**B. Advertisement Campaigns**

**i. Internet Ads**

- Started June 1<sup>st</sup> to run through September 30<sup>th</sup>



**Figure 2. Internet advertisement results**

### C. Google Analytics

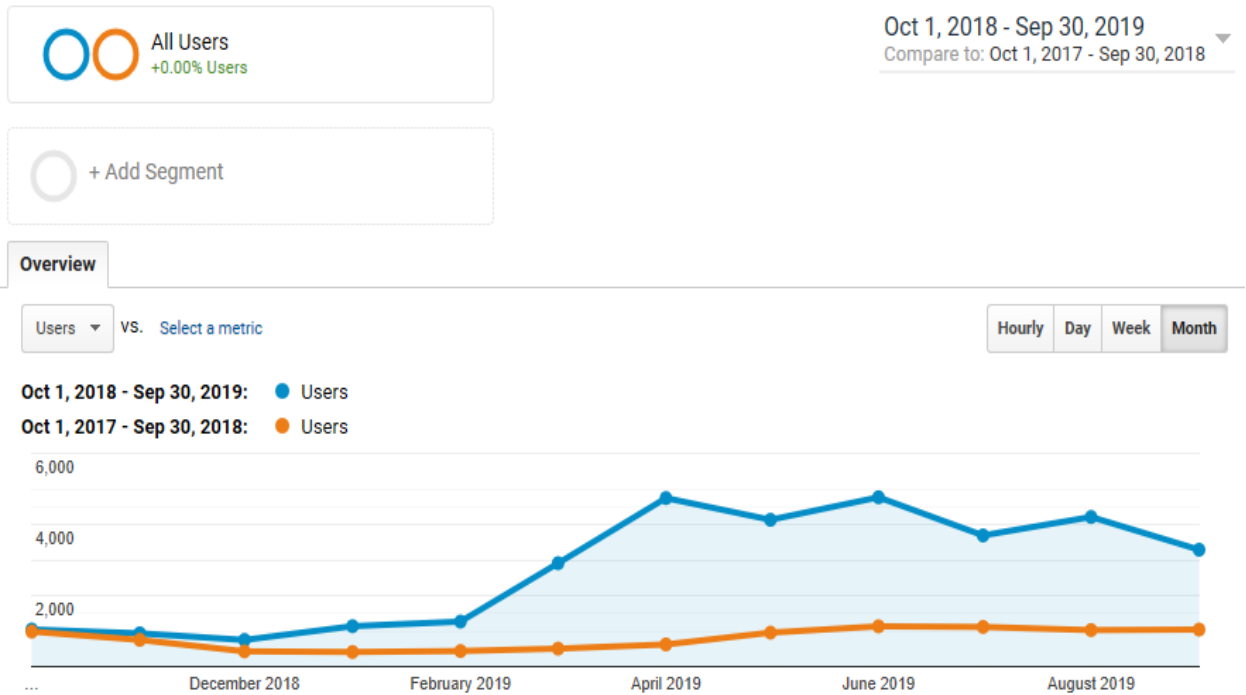


Figure 3. Comparison of website users over the past two years

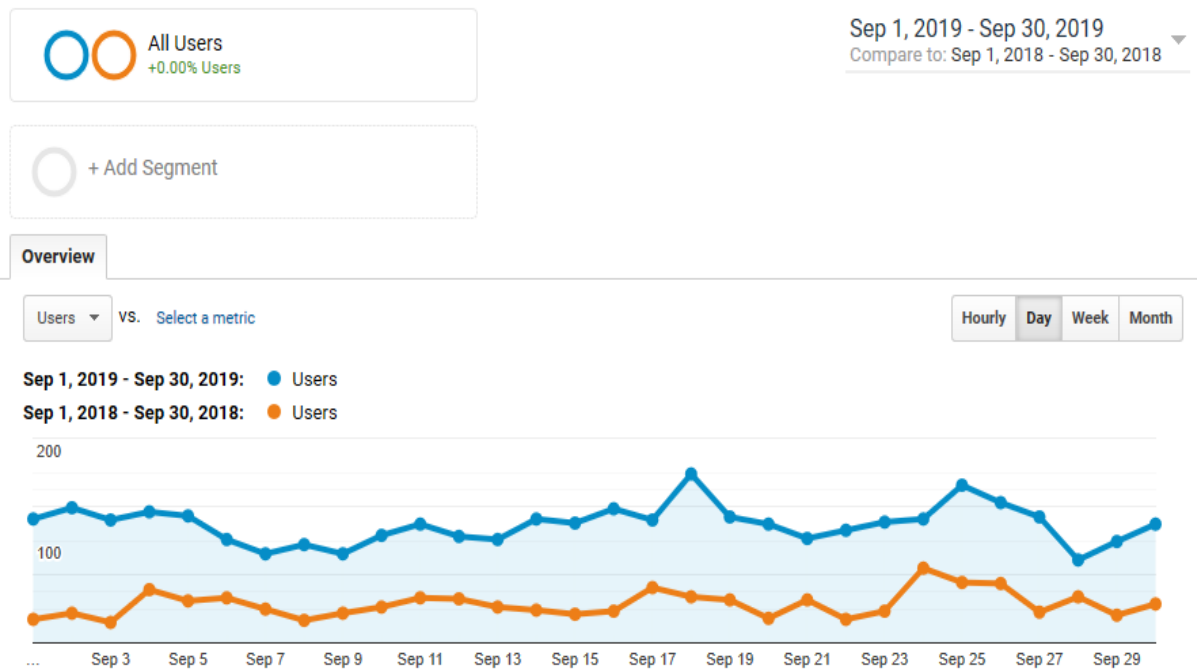
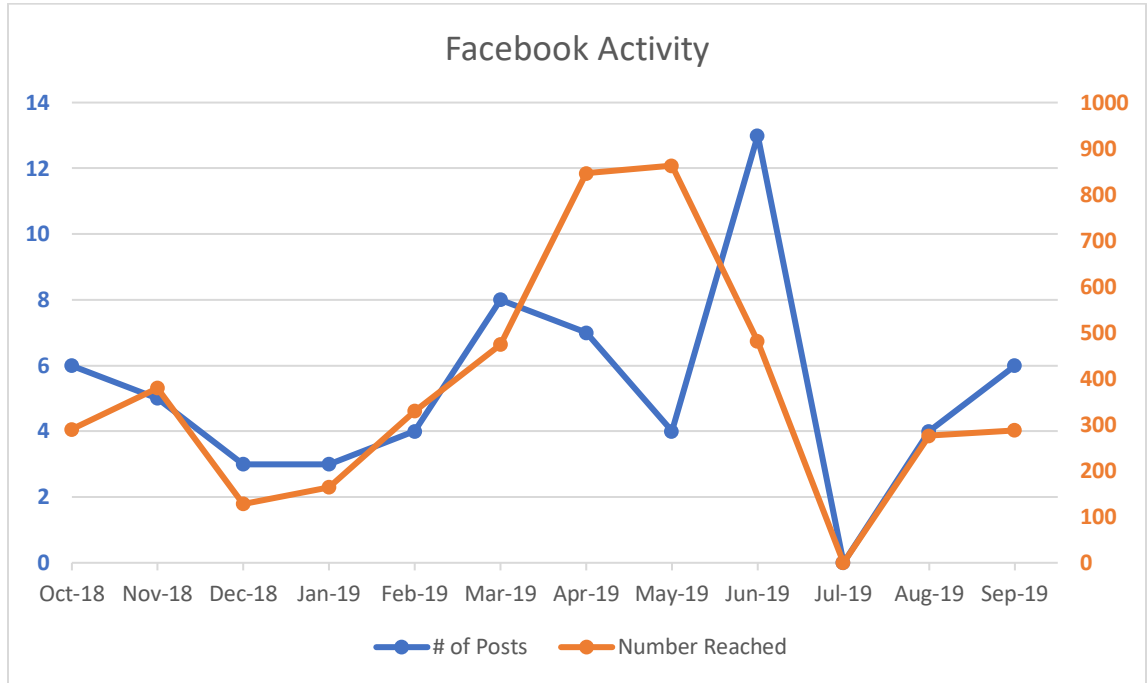


Figure 4. Comparison of website users over the past two years for September.



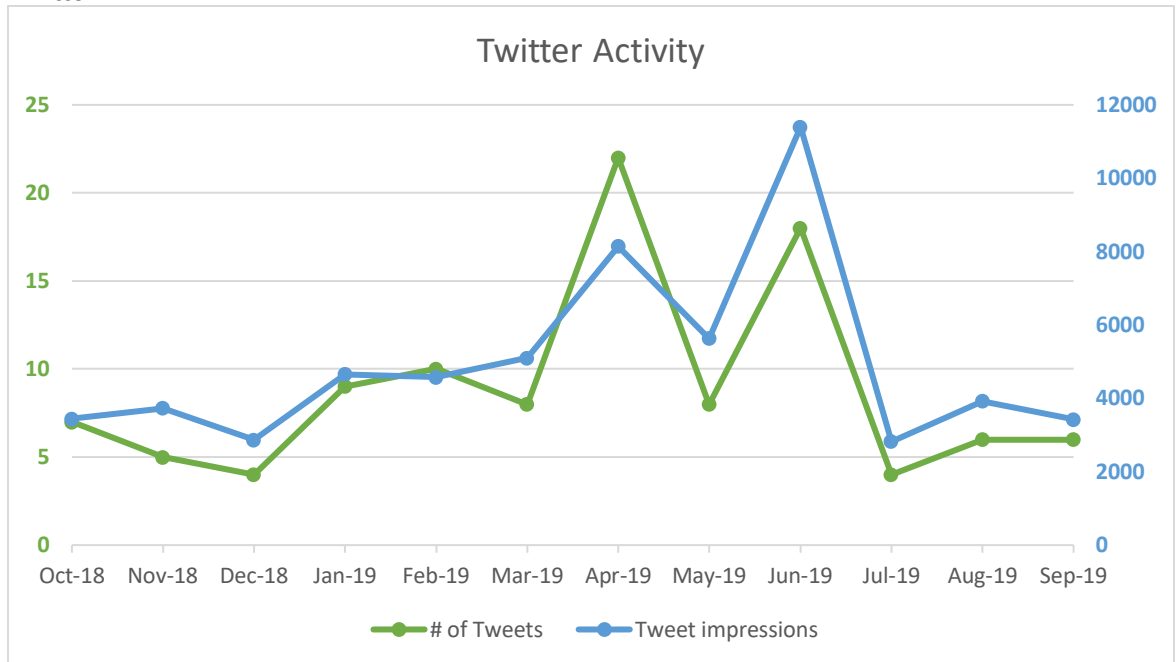
**D. Facebook**



**Total Number of Followers:** 201 (up from 200 in August)

**September's Most Popular Post:** Happy #AutumnEquinox! It might finally be Fall, but mosquitoes are still around. Make sure to keep checking your yard for standing water and putting insect repellent on while you're outside! (picture)

**E. Twitter**



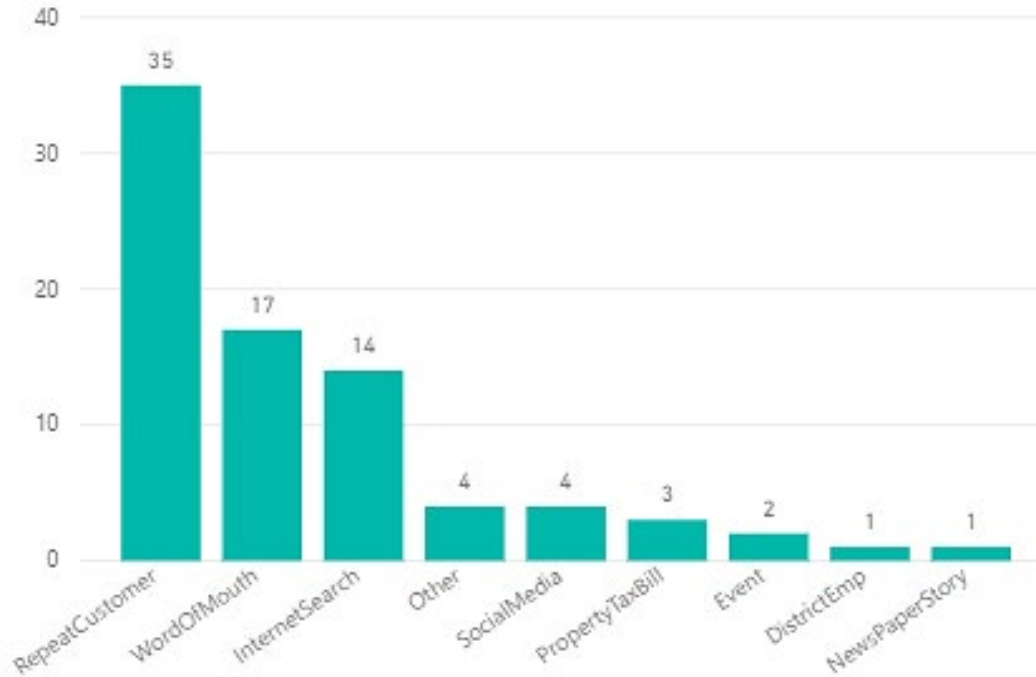
**Number of Profile Visits in September:** 32

**Total Number of Followers (New This Month):** 671 (up from 668 in August)

**Top September Tweet:** Happy #AutumnEquinox! It might finally be Fall, but mosquitoes are still around. Make sure to keep checking your yard for standing water and putting insect repellent on while you're outside! (gif)

**F. Service Request Referral Summary**

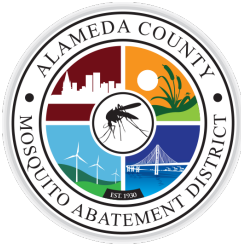
Number of Requests by Channel



**Note:** Movie theater ads, Billboard, sign, or poster, Internet ad and phone book are also options for this question but were not included on this chart because they were not selected in September. Those who chose “Other” indicated they heard about us from their HOA, the TV program Last Week Tonight with John Oliver, PetSmart, and a referral from a pest control company.

**4. LEGISLATIVE UPDATE:**

	Bill Name and description	Status	ACMAD Position	ACMAD Action
<i>California</i>				
<b>MVCAC</b>	<b>AB 320:</b> This bill would create the California Mosquito Surveillance and Research Program, to be administered by the University of California, and would require the University to maintain an interactive internet website for management and dissemination of data on mosquito-borne virus and surveillance control and coordinate with the department, among other functions.	Signed by the Governor on 10/2/19	Support	Letter of support



23187 Connecticut Street  
Hayward, CA 94545

T: (510) 783-7744  
F: (510) 783-3903

[acmad@mosquitoes.org](mailto:acmad@mosquitoes.org)

### Trustee Anniversary Recognitions:

#### Board of Trustees

*President*

Eric Hentschke

**Newark**

*Vice-President*

Wendi Poulson

**Alameda**

*Secretary*

P. Robert Beatty

**Berkeley**

ACMAD is pleased to recognize and thank the following employees on their anniversaries in October.

Trustee	City	Years of Service	Anniversary Date
Kathy Narum	Pleasanton	6	October 1 <sup>st</sup>
Wendi Poulson	Alameda	4	October 20 <sup>th</sup>

Cathy Roache

**County at Large**

Betsy Cooley

**Emeryville**

Alan Brown

**Dublin**

George Young

**Fremont**

Elisa Marquez

**Hayward**

James N. Doggett

**Livermore**

Jan O. Washburn

**Oakland**

Robert Dickinson

**Piedmont**

Kathy Narum

**Pleasanton**

Victor Aguilar

**San Leandro**

Subru Bhat

**Union City**

**Ryan Clausnitzer**

*General Manager*