

**AGENDA**  
1075<sup>th</sup> MEETING OF THE BOARD OF TRUSTEES  
OF THE ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT  
DECEMBER 11TH, 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 1074<sup>th</sup> meeting held November 13<sup>th</sup>, 2019 (**Board action required**)
5. Resolution 1075-1 honoring Miguel Cardenas for his service to the District (**Board action required**)
6. Nominating Committee (Beatty, Hernandez, Cooley) nominates a slate of 2020 District Officers for Board approval (**Board action required**)
7. Appointment of members to the Personnel Committee (**Board action required**)
8. Financial Reports as of November 30<sup>th</sup>, 2019: (Information only).
  - a. Check Register
  - b. Income Statement
  - c. Investments, reserves, and cash report
  - d. Balance Sheet
9. Presentation of the Monthly Staff Report for December 2019 (Information only).
10. Presentation of the Manager's Report for December 2019 (Information only).
  - a. Trustee Anniversary
  - b. Erick Gaona hired as an Assistant Mosquito Control Technician
  - c. LAFCo annexation application approved at 11/14/19 meeting

d. Alameda County Special District Association meeting at ACMAD on 1/8/20

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

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

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

14. 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

### 1074<sup>th</sup> MEETING OF THE BOARD OF TRUSTEES OF THE ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT November 13<sup>th</sup>, 2019

TIME: 5:00 P.M.  
PLACE: Office of the District, 23187 Connecticut Street, Hayward  
TRUSTEES: Eric Hentschke, President, City of Newark  
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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 5:00 P.M.
2. Trustees Hentschke, Beatty, Roache, Cooley, Young, Marquez, Doggett, Washburn, Narum, Aguilar and Bhat were present. Trustees Poulson and Brown were absent. Trustee Dickinson arrived at 5:05 P.M.
3. Board President Hentschke invited members of the public to speak on any issue relevant to the District. Lab Director Dr. Eric Haas-Stapleton and Regulatory and Public Affairs Director Erika Castillo were present to give a presentation about Mosquito Control on the SF Bay Shoreline. Vector Biologist Jeremy Sette was present to record the minutes.
4. Approval of minutes of the 1073<sup>rd</sup> meeting held October 9<sup>th</sup>, 2019.  
**Discussion:** The General Manager noted some corrections from the previous month's minutes: Trustee Washburn met with officials in 2015, not 2012; "recent" should be changed to "recently"; change "or" to "nor".  
**Motion:** Trustee Aguilar moved to approve the minutes with the changes  
**Second:** Trustee Marquez  
**Vote:** motion carries: unanimous.
5. Appointment of a committee to nominate candidates for board offices.  
**Discussion:**  
Trustees Washburn, Narum and Doggett were recommended to be appointed to the committee to nominate candidates for Board offices.  
**Motion:** Trustee Beatty moved to approve the appointment of Trustees Washburn, Narum and Doggett to the Committee to Nominate Candidates for Board Offices  
**Second:** Trustee Bhat  
**Vote:** motion carries: unanimous.
6. Presentation: *Mosquito Control on the SF Bay Shoreline* by Regulatory and Public Affairs Director Erika Castillo and Lab Director Dr. Eric Haas-Stapleton.

**Discussion:**

The General Manager gave a background of the presentation and introduced Regulatory and Public Affairs Director Erika Castillo and Lab Director Dr. Eric Haas-Stapleton. Castillo and Haas-Stapleton gave their presentation and fielded the following discussion. Trustee Beatty asked for the definition of an ecotone (Haas-Stapleton answered: an ecotone is the transition space between two different types of ecological environments). The General Manager commended Castillo and Haas-Stapleton for their ongoing efforts and explained that ACMAD is leading the conversation on mosquito control issues in this arena. Castillo expressed the importance of having communication with cities on any future construction projects which might produce standing water, including ecotone horizontal levees. Trustee Marquez asked which criteria cities might use to know which projects to send over to ACMAD (Castillo answered: any projects would be useful). The General Manager asked Trustee Marquez which department to contact on building projects (Trustee Marquez answered: Community Development Department). Trustee Beatty commented on his interest in how ecotones are developed. Castillo commented that ACMAD wants to be ahead of the projects to give input during the design and planning phase of ecotone projects and is interested in becoming part of the permitting of ecotones. The General Manager commented that making land managers pay for costs would be a last resort scenario if ACMAD's comments are not considered when developing ecotones. President Hentschke asked how the District can fine land managers (the General Manager answered that they would follow Health and Safety Code laws which give the District authority to levy abatement penalties). Trustee Dickinson asked if there were certain building codes one had to follow for horizontal levees, similar to building codes, and if we could get involved there (Castillo answered: not currently, hence the need for continued efforts by the District to be involved with development and within CEQA regulations). Trustee Dickinson asked for the definition of CEQA (Castillo answered: California Environmental Quality Act which led to the District's own PEIR and mentioned that past efforts to reform CEQA to address mosquito control concerns fell through). The General Manager commented that there is a stress being placed on the development of the bay because of the housing crisis and that the District will be going to use data to drive the District's concerns and efforts. President Hentschke asked if there were any other interests that ACMAD could work with regarding mosquito control interests in ecotones (The General Manager answered: contact has been made with the East Bay Dischargers Association regarding any future development of ecotones in Alameda County and that it was important for the District to continue to go to special district meetings and conferences to discuss design ideas and changes with other land owners before they are built.

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

**Discussion:**

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

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

**Discussion:**

The General Manager presented the Monthly Staff Report for October 2019 for Operations. Haas-Stapleton gave the Monthly Staff Report for the Lab and fielded the following discussion. Trustee Beatty asked for clarification on the KDR assay (mostly testing the top three *Culex* possible West Nile Virus carriers-*Culex pipiens*, *Culex tarsalis* and *Culex erythrothorax*) and asked how many mosquitoes were tested (every *Culex* species in the summer of 2019). Trustee Washburn will ask his contacts at the Vero Beach lab in Florida to send mosquitoes for testing. The General Manager commended seasonal employee Kelli Hager for her role on the KDR assay. Castillo gave the Monthly Staff Report for Public Affairs and fielded the following questions. Trustee Marquez commended Haas-Stapleton and Castillo's presentation and ongoing work and asked if Castillo could promote the District through city channels that

broadcast council meetings. Trustee Narum commented that it would be beneficial to have ACMAD information shown in this forum.

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

**Discussion:**

The General Manager presented the Manager's Report for October 2019 and fielded the following discussion. Trustee Dickinson announced he would be stepping down after the completion of this term. The General Manager commended Trustee Dickinson's service to the District, especially regarding his contributions to the financial reporting and investment advice. The General Manager announced that Trustee Brown will also be stepping down as he is moving out of Alameda County and asked the Board to let him know if anyone is interested in the upcoming conferences. Trustee Washburn asked if the General Manager would want any Board members to attend the LAFCo hearing (it may be worthwhile to have representation), asked if retired manager John Rusmisl might be attending (not sure), and also asked if the General Manager would be the only one from the District planning on speaking at the LAFCo hearing (yes). Trustee Marquez mentioned that there is usually not a rebuttal time after speakers during the LAFCo hearings and he should ask to speak last, if possible. Trustee Narum suggested mentioning that the District is very financially stable, with sufficient reserves, and has no need or plans to raise rates, and that mosquitoes do not know city boundaries. Trustees Beatty and Cooley gave advice to only stick to clearly defined facts. Trustee Bhat mentioned that he wrote a letter to the Mayor and City Council of Albany and Union City disputing erroneous statements by Mr. Gay at the Albany City Council meeting in September. Trustee Beatty commented that the Albany's City Council's mind was made up before the meeting in September which is unfortunate as they did not review the past LAFCo efforts at annexation, and that fairness, solvency, and clarity, are the District's strongest arguments. The General Manager thanked the Trustees for guidance in the LAFCo process and that he would be leaving a training session early to attend the LAFCo hearing.

10. Board President Hentschke asked for reports on conferences and seminars attended by Trustees. Trustee Narum brought up the California League of Cities and how she received mosquito education materials from Los Angeles County West Vector Control.

11. Board President Hentschke asked for announcements from the Board. The General Manager announced that Vector Biologist, Miguel Cardenas, had accepted a supervisorial position at Santa Clara County Mosquito and Vector Control, commended his long service at ACMAD, and that his last day at ACMAD would be on December 13<sup>th</sup>, 2019.

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 6:34 P.M.

**Respectfully submitted,**

Approved as written and/or corrected  
at the 1075<sup>th</sup> meeting of the Board of  
Trustees held December 11<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

RESOLUTION NO. 1075-1

ALAMEDA COUNTY MOSQUITO  
ABATEMENT DISTRICT

**COMMENDATION TO: Miguel Cardenas**

WHEREAS: You, Miguel Cardenas, served the District as a seasonal employee from 2007 through 2012, and

WHEREAS: You were hired as an Assistant Mosquito Control Technician in January of 2012, raising to the title of Vector Biologist in February of 2016, and

WHEREAS: You completed your bachelor's degree in Political Science and master's degree in Public Administration at California State East Bay during your employment, and

WHEREAS: You sought out new challenges and responsibilities, such as requesting a transfer to a difficult marsh treatment zone, getting elected by your peers to lead them in labor negotiations as Employee Association President, and coordinating the District's first strategic plan, therefore be it

RESOLVED: We, the undersigned Board of Trustees, and General Manager, do hereby extend our sincere appreciation for your dedication of service to this District.

\_\_\_\_\_  
Kathy Narum

\_\_\_\_\_  
Elisa Marquez

\_\_\_\_\_  
Wendi Poulson

\_\_\_\_\_  
Jan O. Washburn

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Alan Brown

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Cathy Roache

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George Young

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James N. Doggett

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Victor Aguilar

\_\_\_\_\_  
P. Robert Beatty

\_\_\_\_\_  
Betsy Cooley

\_\_\_\_\_  
Eric Hentschke

\_\_\_\_\_  
Subru Bhat

\_\_\_\_\_  
Ryan Clausnitzer, *mgr*

## Alameda County Mosquito Abatement Dist.

## Check Register

For the Period From Nov 1, 2019 to Nov 15, 2019

Filter Criteria includes: Report order is by Date.

<b>Check #</b>	<b>Date</b>	<b>Payee</b>	<b>Amount</b>
1909	11/14/19	Payroll	76,078.76
1910	11/15/19	All-Ways Green Services	461.54
1911	11/15/19	Airgas	415.98
1912	11/15/19	Alco Sheet Metal and Heating, Inc.	405.00
1913	11/15/19	Bay Area MVCAC Regional Training Fund	1,440.00
1914	11/15/19	CalPERS 457	2,443.92
1915	11/15/19	Cintas	1,284.95
1916	11/15/19	F.H Dailey Chevrolet	62,198.14
1917	11/15/19	Guaranteed Auto Service	593.83
1918	11/15/19	Grainger	100.66
1919	11/15/19	Greenwood & Moore, Inc.	4,349.00
1920	11/15/19	Integrated DNA Technologies, Inc	25.68
1921	11/15/19	Leading Edge Associate, Inc.	7,800.00
1922	11/15/19	Long, Rick	40.88
1923	11/15/19	Lowe, Carol	40.88
1924	11/15/19	McMahon, Thomas J.	160.00
1925	11/15/19	PFM Asset Management	1,641.29
1926	11/15/19	PG&E	81.07
1927	11/15/19	SUNLOGIC dba Solar	106,748.25
1928	11/15/19	Safety-Kleen	175.00
1929	11/15/19	Schaeffer MFG.Co.	1,231.05
1930	11/15/19	Sette, Jeremy	160.00
1931	11/15/19	Techniclean	92.33
1932	11/15/19	Treds	140.00
1933	11/15/19	Voya Institutional Trust Company	177.41
1934	11/15/19	VCJPA	217.92
1935	11/15/19	Yung, Lance	40.88
1936	11/15/19	U.S Bank Corporate Payment System	20,634.41
ACH	11/15/19	CalPERS Retirement	13,148.11
<b>Total Expenditures - November 15, 2019</b>			<b>302,326.94</b>

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

Filter Criteria includes: Report order is by Date.

<b>Check #</b>	<b>Date</b>	<b>Payee</b>	<b>Amount</b>
1937	11/25/19	Payroll	78,400.08
1938	11/27/19	Doggett, James N	100.00
1939	11/27/19	Dickinson, Robert	100.00
1940	11/27/19	Hentschke, Eric Armin	100.00
1941	11/27/19	Young, George	100.00
1942	11/27/19	Airgas	153.08
1943	11/27/19	All-Ways Green Services	237.70
1944	11/27/19	CalPERS 457	2,756.66
1945	11/27/19	Cintas	250.09
1946	11/27/19	Campbell, Cornelius	167.58
1947	11/27/19	Finn, Richard	40.88
1948	11/27/19	Integrated DNA Technologies, Inc	264.50
1949	11/27/19	JCR Custom/ Paul Builders	3,090.05
1950	11/27/19	PG&E	1,750.15
1951	11/27/19	Robles, Michelle	1,722.25
1952	11/27/19	Techniclean	49.16
1953	11/27/19	Voya Institutional Trust Company	177.41
1954	11/27/19	Verizon	1,425.70
1955	11/27/19	WEX Bank	3,860.57
ACH	11/27/19	Aguilar, Victor	100.00
ACH	11/27/19	Beatty, Robert .P	100.00
ACH	11/27/19	Bhat, Subrahmanya Y	100.00
ACH	11/27/19	Cooley, Elizabeth	100.00
ACH	11/27/19	Marquez, Elisa	100.00
ACH	11/27/19	Narum, Katherine	100.00
ACH	11/27/19	Roache, Cathy J Pinkerton.	100.00
ACH	11/27/19	Washburn, Jan	100.00
ACH	11/27/19	CalPERS Retirement	13,707.05
ACH	11/27/19	CalPERS Health	33,298.76
<b>Total Expenditures - November 30, 2019</b>			<b>142,551.67</b>



**Alameda County Mosquito Abatement District  
Income Statement  
November 30, 2019. (5 of 12 mth, 42%)**

<b>REVENUES</b>	<b>Actual 2017/18</b>	<b>Actual 2018/19 <sup>1</sup></b>	<b>Current Month</b>	<b>Year to Date 2019/20</b>	<b>Budget 2019/20</b>	<b>Actual vs Budget</b>
<b>Total Revenue</b>	<b>\$ 4,623,350.00</b>	<b>\$ 4,063,848.12</b>	<b>\$ 2,551.97</b>	<b>\$ 344,059.04</b>	<b>\$ 4,705,236.00</b>	<b>7%</b>

<b>EXPENDITURES</b>	<b>Actual 2017/18</b>	<b>Actual 2018/19 <sup>1</sup></b>	<b>Current Month <sup>2</sup></b>	<b>Year to Date 2019/20</b>	<b>Budget 2019/20</b>	<b>Actual vs Budget</b>
Salaries	\$1,744,412	\$ 1,874,396.01	\$ 169,368.84	\$ 850,399.16	\$2,425,552	35%
CalPERS Retirement	\$262,107	\$ 310,838.21	\$ 15,267.32	\$ 262,117.78	\$360,538	73%
Medicare	\$23,564	\$ 25,149.24	\$ 2,253.24	\$ 11,319.38	\$30,843	37%
Fringe Benefits	\$449,954	\$ 452,960.30	\$ 33,298.76	\$ 189,831.01	\$502,043	38%
<b>Total Salaries, Retirement, &amp; Benefits</b>	<b>\$2,480,037</b>	<b>\$ 2,663,343.76</b>	<b>\$220,188</b>	<b>\$1,313,667</b>	<b>\$3,318,976</b>	<b>40%</b>
Clothing and personal supplies (purchased)	\$ 7,308.71	\$ 8,899.04	\$ 1,379.19	\$ 2,596.48	\$8,000	32%
Laundry service and supplies (rented)	\$ 9,819.37	\$ 12,602.62	\$ 624.52	\$ 5,706.96	\$12,750	45%
Utilities	\$ 29,830.25	\$ 30,161.25	\$ 1,831.22	\$ 11,893.55	\$12,600	94%
Communications-IT	\$ 102,855.59	\$ 108,886.22	\$ 15,398.22	\$ 29,760.33	\$117,100	25%
Maintenance: structures & improvements	\$ 21,374.70	\$ 13,673.39	\$ 2,358.18	\$ 7,235.20	\$25,000	29%
Maintenance of equipment	\$ 43,585.45	\$ 43,628.61	\$ 2,156.37	\$ 5,134.70	\$35,000	15%
Transportation, travel, training, & board	\$ 131,330.43	\$ 98,432.96	\$ 11,118.09	\$ 38,589.56	\$134,260	29%
Professional services	\$ 100,563.13	\$ 112,944.66	\$ 5,990.29	\$ 45,262.04	\$169,320	27%
Memberships, dues, & subscriptions	\$ 15,933.00	\$ 20,773.00	\$ -	\$ 20,049.00	\$22,655	88%
Insurance - (VCJPA, UAS)	\$ 131,392.69	\$ 125,189.76	\$ 217.92	\$ 133,359.84	\$133,546	100%
Community education	\$ 64,109.47	\$ 34,860.85	\$ 41.16	\$ 8,712.43	\$40,000	22%
Operations	\$ 176,000.00	\$ 206,731.27	\$ -	\$ 50,219.83	\$228,500	22%
Household expenses	\$ 18,101.06	\$ 18,656.19	\$ 876.87	\$ 7,406.18	\$15,850	47%
Office expenses	\$ 10,753.26	\$ 11,795.67	\$ 35.09	\$ 2,426.99	\$14,500	17%
Laboratory supplies	\$ 113,768.06	\$ 95,640.16	\$ 11,566.48	\$ 54,049.59	\$137,000	39%
Small tools and instruments	\$ 8,376.29	\$ 2,211.74	\$ 48.03	\$ 273.02	\$3,000	9%
<b>Total Staff Budget</b>	<b>\$ 985,101.46</b>	<b>\$ 945,087.39</b>	<b>\$ 53,641.63</b>	<b>\$ 422,675.70</b>	<b>\$1,109,081</b>	<b>38%</b>
<b>Total Operating Expenditures</b>	<b>\$ 3,465,138.55</b>	<b>\$ 3,608,431.15</b>	<b>\$ 273,829.79</b>	<b>\$ 1,736,343.03</b>	<b>\$4,428,057</b>	<b>39%</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  
November 30, 2019. (5 of 12 mth, 42%)**

Account #	Investment Accounts	Beginning Balance	Deposits	Withdrawals	Interest Activity	Ending Balance
1004	LAIF	\$ 1,111,570.48	\$ -	\$ (273,000.00)	\$ -	\$ 838,570.48
1005	OPEB Fund	\$ 4,320,765.06	\$ -	\$ -	\$ 70,555.04	\$ 4,391,320.10
1006	VCJPA Member Contingency	\$ 353,497.00	\$ -	\$ -	\$ 4,650.00	\$ 358,147.00
1007	VCJPA Property Contingency	\$ 52,796.00	\$ -	\$ (52,796.00)	\$ -	\$ -
1008	CAMP: Repair and Replace	\$ 335,145.96	\$ -	\$ (62,198.14)	\$ 468.11	\$ 273,415.93
1009	CAMP: Public Health Emergency	\$ 520,688.12	\$ -	\$ -	\$ 805.96	\$ 521,494.08
1010	CAMP: Operating Reserve	\$ 1,923,887.95	\$ -	\$ -	\$ 2,977.93	\$ 1,926,865.88
1011	CAMP: Capital Reserve Fund	\$ 144,190.44	\$ -	\$ (108,723.95)	\$ 135.86	\$ 35,602.35
1012	PARS: Pension Stabilization <sup>1</sup>	\$ 1,580,993.68	\$ -	\$ -	\$ 12,786.83	\$ 1,593,780.51
<b>Total</b>		<b>\$ 10,343,534.69</b>				<b>\$ 9,939,196.33</b>
Cash Accounts		Beginning Balance		Withdrawals	Activity	Ending Balance
1001	Bank of America (Payroll Account) *	\$ 39,573.94				\$ 113,348.83
1002	Bank of The West (Transfer Account) *	\$ 261,293.69				\$ 283,702.29
1003	County Account	\$ 559,413.09			\$ 2,551.97	\$ 561,965.06
1013	Petty Cash	\$ 409.20			\$ (21.16)	\$ 388.04
<b>Total</b>		<b>\$ 860,689.92</b>				<b>\$ 959,404.22</b>

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

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

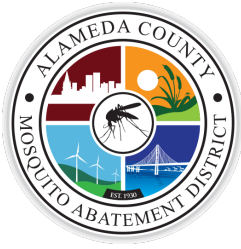
Alameda County Mosquito Abatement Dist.  
Balance Sheet  
November 30, 2019

ASSETS

Current Assets		
Cash	\$	4,391,320.10
Bank of America payroll		112,701.69
Bank of the West		411,971.07
County		561,965.06
Cash with LAIF		838,570.48
VCJPA- Member Contingency		358,147.00
CAMP - Repair and Replace		273,415.93
CAMP - Public Health Emergency		521,494.08
CAMP - Operating Reserve		1,926,865.88
CAMP - Capital Reserve Fund		35,602.35
PARS		1,593,780.51
Petty cash		<u>388.04</u>
 Total Current Assets		 11,026,222.19
Property and Equipment		
Acc Dep - equipment	(1,318,915.70)	
Acc Dep - stru & improv	(2,349,631.01)	
Construction in progress	535,663.99	
Equipment	1,699,506.64	
Structure/improvement	4,637,746.62	
Land	<u>61,406.00</u>	
 Total Property and Equipment		 3,265,776.54
Other Assets		
Net OPEB Asset	<u>716,666.00</u>	
 Total Other Assets		 <u>716,666.00</u>
 Total Assets		 <u>\$ 15,008,664.73</u>

LIABILITIES AND CAPITAL

Current Liabilities		
Accounts payable	\$	104,215.36
Acc payroll/vacation		187,668.43
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		 2,967,778.79
 OPEB Fund		 <u>4,391,320.10</u>
 Total Liabilities		 7,359,098.89
Capital		
Designated fund balances	4,100,295.19	
Investment in general fixed as	4,637,374.11	
Net Income	<u>(1,088,103.46)</u>	
 Total Capital		 <u>7,649,565.84</u>
 Total Liabilities & Capital		 \$ 15,008,664.73



## Board of Trustees

### President

Eric Hentschke

### Newark

### Vice-President

Wendi Poulson

### Alameda

### Secretary

P. Robert Beatty

### Berkeley

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

## MONTHLY STAFF REPORT – December 2019

### 1. OPERATIONS REPORT

During November, operations staff noted the start of the shift from our summer species to the appearance of our winter species of mosquitoes. Efforts continued to focus on our active species of concern: *Culex pipiens* and *Culex tarsalis*. Inspections and treatments of catch basins, flooded basements/crawlspaces, sewer plants, freshwater marshes, creeks, canals, unmaintained swimming pools, cemetery urns, and ponds were conducted. Larvae of both species, especially *Cx. tarsalis*, were at low numbers and the first significant rains should contribute a downward trend in their population numbers. Operations staff also collected the first significant numbers of larval *Culiseta inornata* for the season. This species typically estivates over the summer months and adult females start reappearing and laying eggs as temperatures drop, the photoperiod shifts, and the first rains occur. These females seek out standing water suitable for egg deposition in a variety of sources. Adult females were collected in both light traps and traps set out by the lab for the last two months but in low numbers. As rainwater accumulates, inspections and treatments for *Cs. inornata* will intensify. As for our other winter mosquito species: *Aedes squamiger*, *Aedes washinoi*, and *Aedes sierrensis*, rainwater will need to accumulate enough to inundate and hatch eggs deposited in previous seasons before they hatch into this season's larvae.

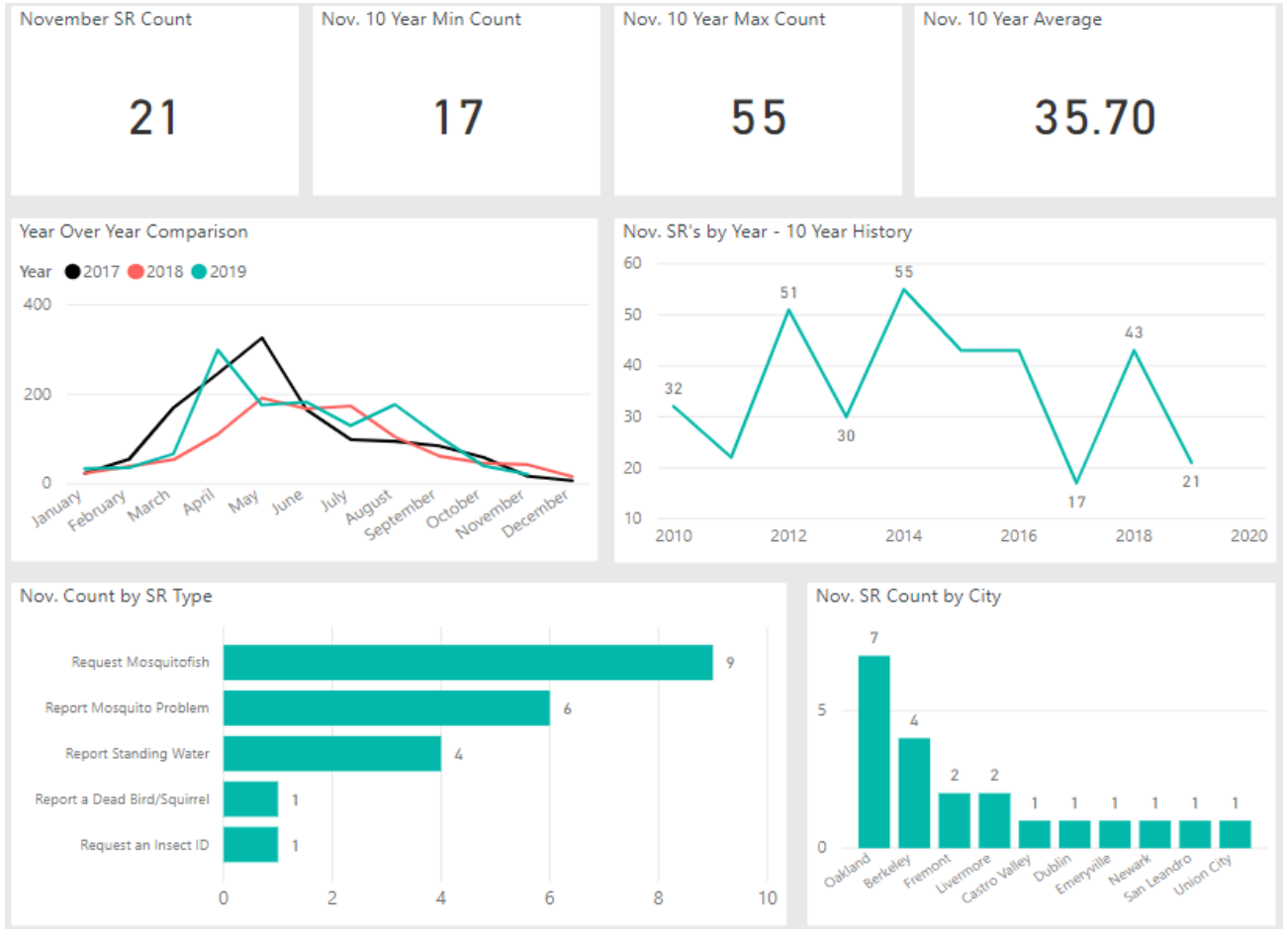
Operations staff also continued progress on ditch maintenance efforts in November. Focus continued on Fremont tidal marsh areas. These marshes produce a significant number of *Aedes dorsalis* larvae from late spring into fall and pose several challenges for inspections and treatments. The intent is to lessen the impounding of tidal waters thus reducing the potential larval production sources for this species. Another reason for the focus in these marshes is access. After the first rainfall, the miles of levees utilized to access these sources becomes undrivable until they dry after the last rains of spring. Ditching efforts will then shift north to tidal marsh areas that remain accessible regardless of rainfall. Ditch maintenance in these areas will continue on a regular basis, rain or shine, until the end of January when this year's permit cycle ends.

Requests for service received from the public were well below the ten-year average for November. Nearly half the requests were for mosquito fish for back-yard ponds, unmaintained swimming pools, and livestock troughs. One request to retrieve a dead bird was received and results from the district lab from this, and other birds collected, and various adult mosquito samples all tested negative for West Nile virus. The six requests received to report adult mosquito issues were attributable to *Cx. pipiens* and *Culiseta incidens*. Most of the larvae collected in the field and identified by operations staff in November were also confirmed to be either *Cx. pipiens* or *Cs. incidens*. These two species are often associated with back yard sources or sources that are close to homes. Between the two, they are responsible for a majority of the requests for service involving adult mosquitoes received by ACMAD county-wide. *Cx. pipiens* numbers tend to drop significantly with the onset of winter but *Cs. incidens* are active year-around. The often close association of both species to residential properties, their wide-spread distribution, and their often cryptic/difficult to access breeding sources also make them some of the most challenging species for operations staff to locate and control.

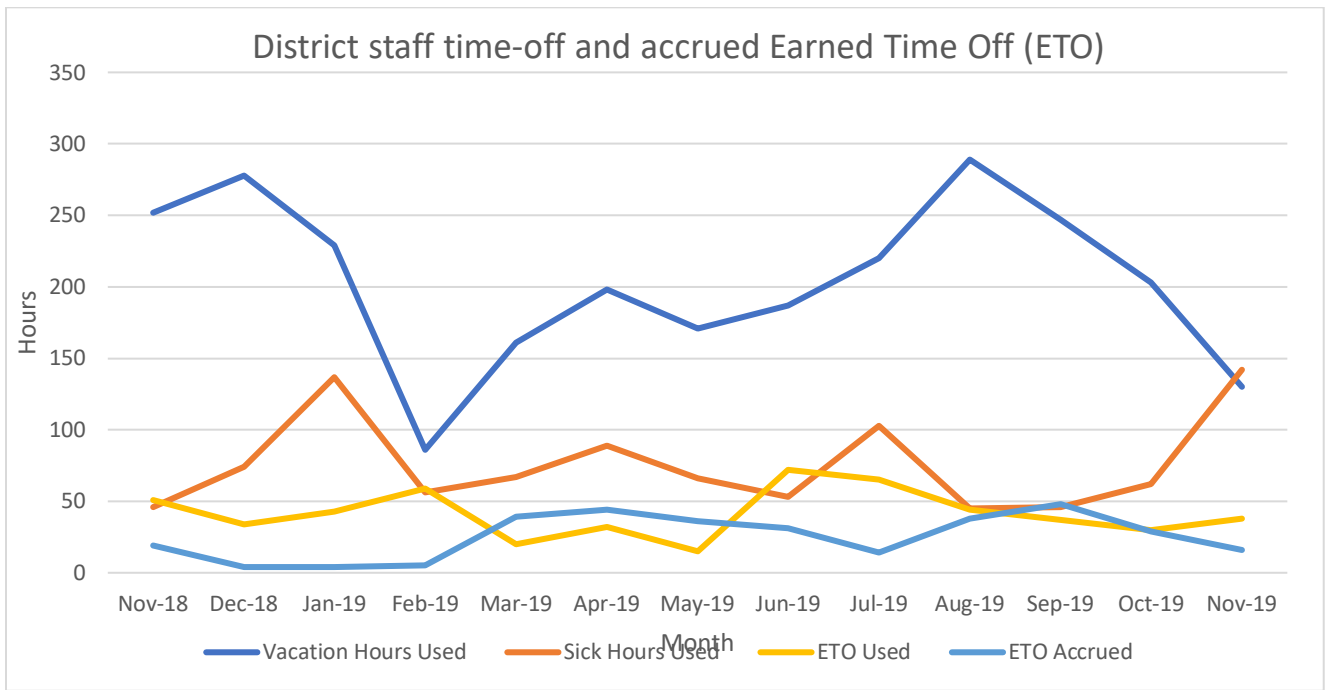
Field Operations Supervisor  
Joseph Huston

## A. District Data

### 1. Service Requests

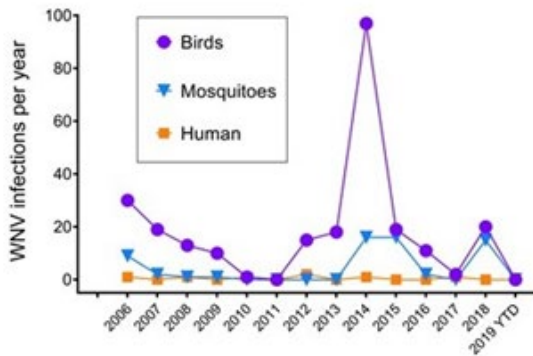


## 2. Activity Report

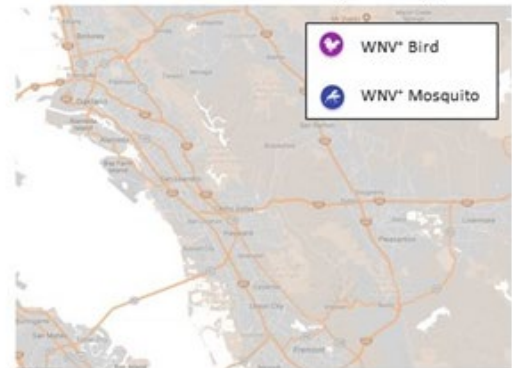


## 3. WNV Activity

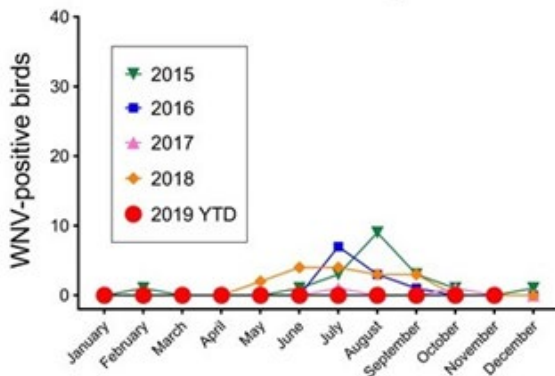
WNV infections detected in Alameda County  
2005 – 2019 YTD



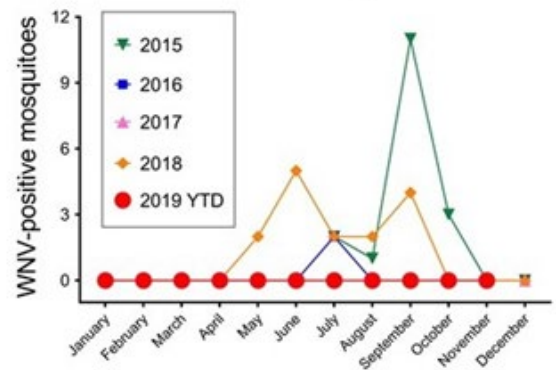
Locations of WNV-infected mosquitoes and birds  
collected in Alameda County during 2019



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 in November.
- Adult mosquito abundance during November 2019 was lower than the prior year.
- A total of 469 adult mosquitoes were captured and killed by lab traps during November.

### Arbovirus Monitoring

- West Nile virus (WNV) was not detected in birds or mosquitoes in November.
- 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).

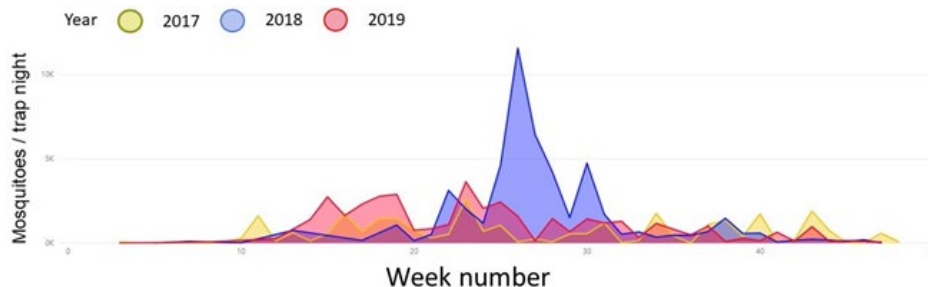
### Native Mosquito Abundance

- Over the course of the month, 81 EVS CO<sub>2</sub> traps were placed; 271 mosquitoes were collected and identified to species (Figure 1). There was an average of 7.47 mosquitoes per trap night, a 2.2-fold decrease in the number of mosquitoes per trap night relative to the prior month (n = 1,927 mosquitoes collected during October 2019). *Culex pipiens* was the most abundant species collected in EVS CO<sub>2</sub> traps, followed by *Culex erythrothorax*, and *Culiseta incidens* (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 3. Overall, mosquito abundance during October 2019 as measured by EVS CO<sub>2</sub> traps was similar to the prior two years (Figure 1; 2019, red line; 2018, blue line; 2017, yellow line). There was a broader geographic distribution of adult *Cx. pipiens* throughout the county (particularly in Livermore and Pleasanton) than during the same period of 2018 (Figure 3A).
- Mosquito abundance, as measured using NJLT, was slightly lower than the prior month (Figure 4; 0.54 and 0.74 mosquitoes / trap night, respectively; total of 198 mosquitoes over 364 trap nights). *Culex tarsalis* was the most prevalent species collected in NJLT during October 2019, followed by *Culiseta inornata* and *Culiseta incidens* (Figure 5).

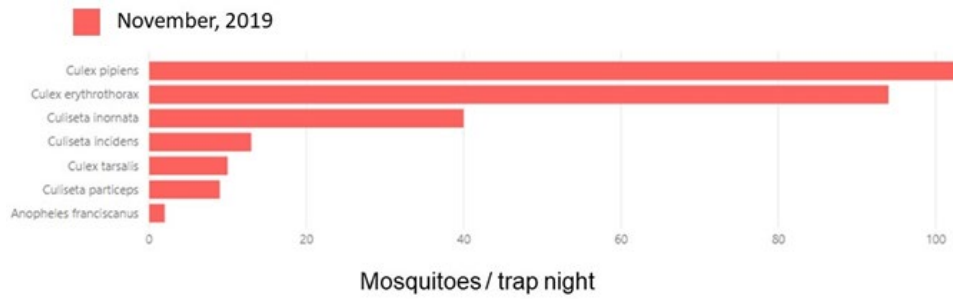
### Invasive Aedes Monitoring

- 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 271 mosquitoes were captured in EVS CO<sub>2</sub> traps during November 2019 and identified to species.

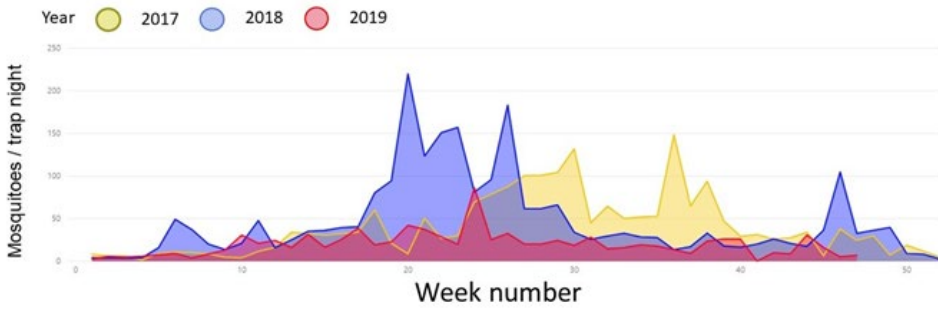


**Figure 2. The six-most abundant species of mosquito captured during October 2019 using EVS CO<sub>2</sub> traps.**

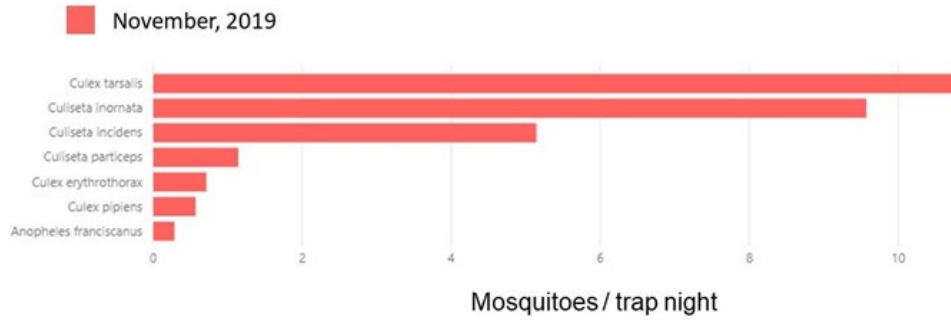


**Figure 3. Mosquito abundance by trap site evaluated using EVS CO<sub>2</sub> traps.** Pie charts over trap sites indicate the distribution of mosquito species collected at the trap site. The size of the pie charts indicates the relative number of mosquitoes at each site during November 2019. (A) Entirety of Alameda County. (B) Livermore and Pleasanton regions.





**Figure 4. Mosquitoes captured in NJLT from 2017 – 2019.** A total of 198 mosquitoes were captured in NJLT during November 2019 and identified to species.

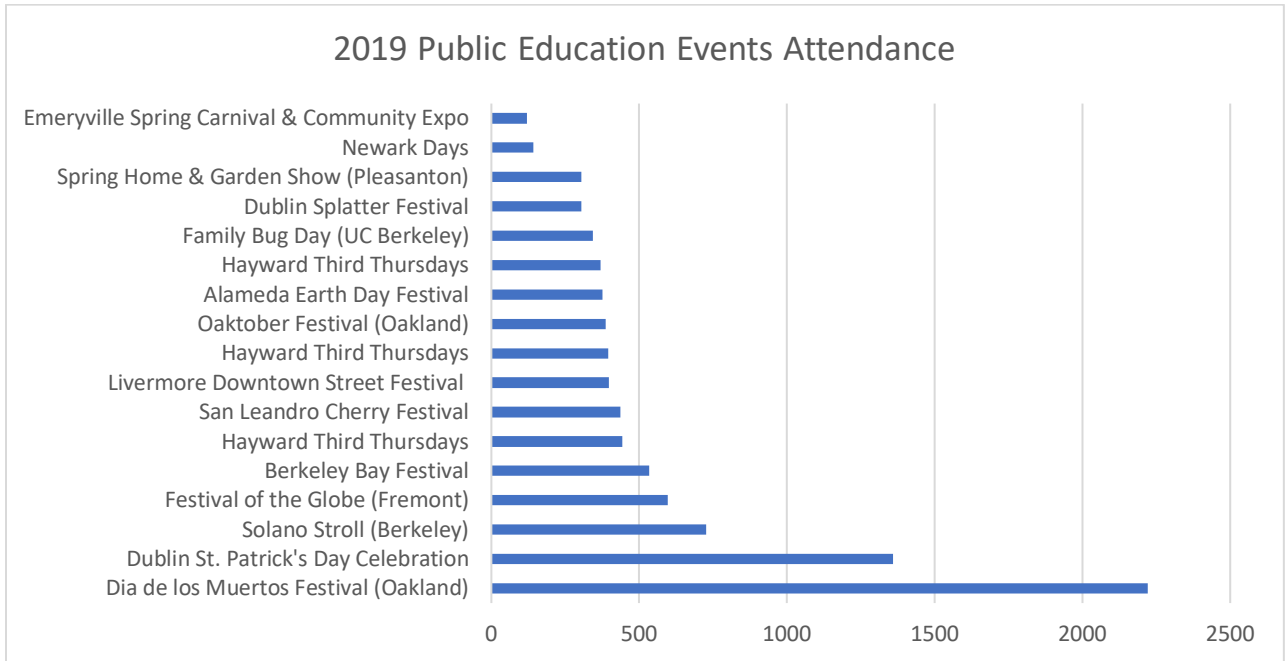


**Figure 5. The six-most abundant species of mosquito captured during November 2019 in NJLT.**

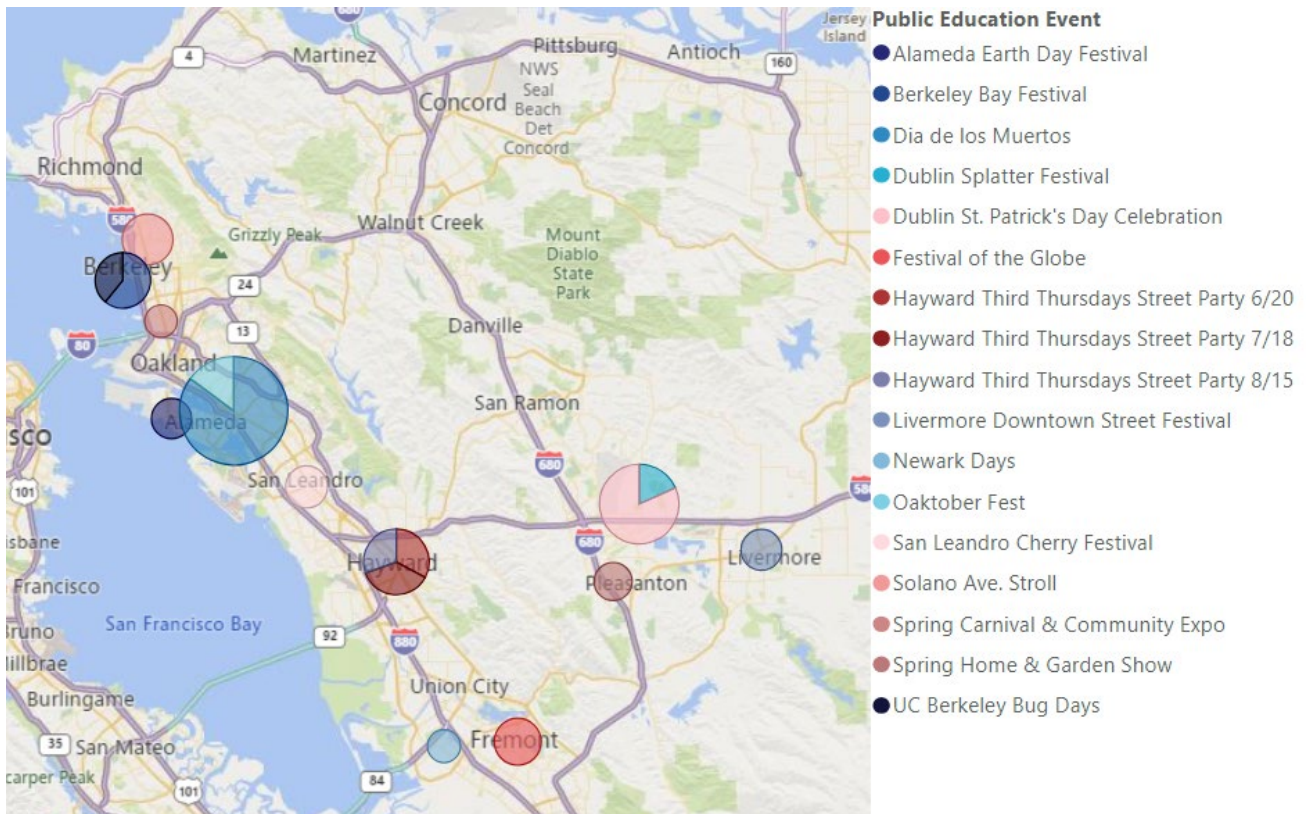
**PUBLIC EDUCATION**

**A. Events**

**i. Past**



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



**Figure 2. Public education events in 2019.** ACMAD participated in 24 events during 2019. Booth attendance at events held on school campuses were not recorded. Booth attendance for the shows listed on the map was almost 9,500 people.

## B. Google Analytics

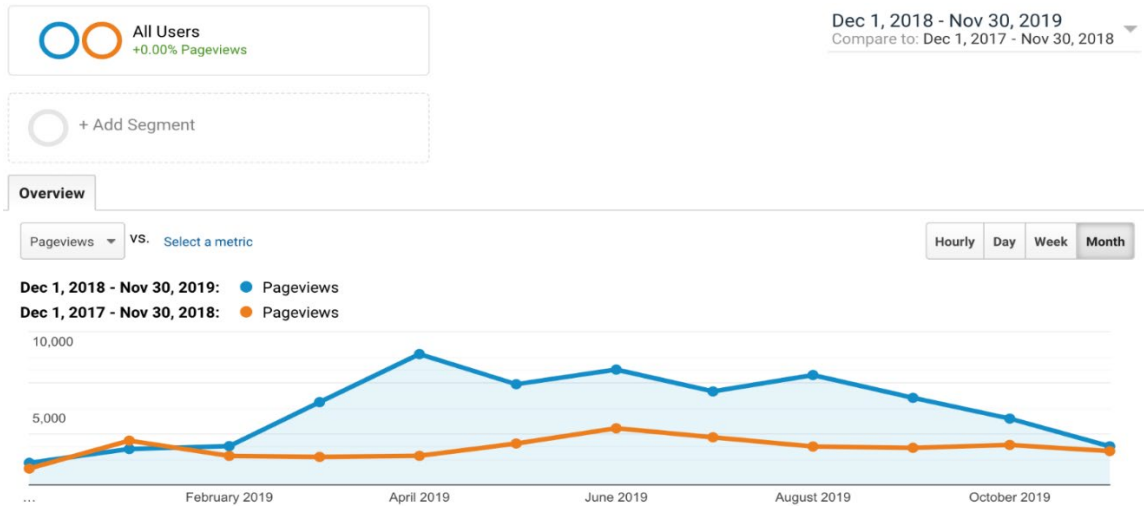


Figure 3. Comparison of website users over the past two years

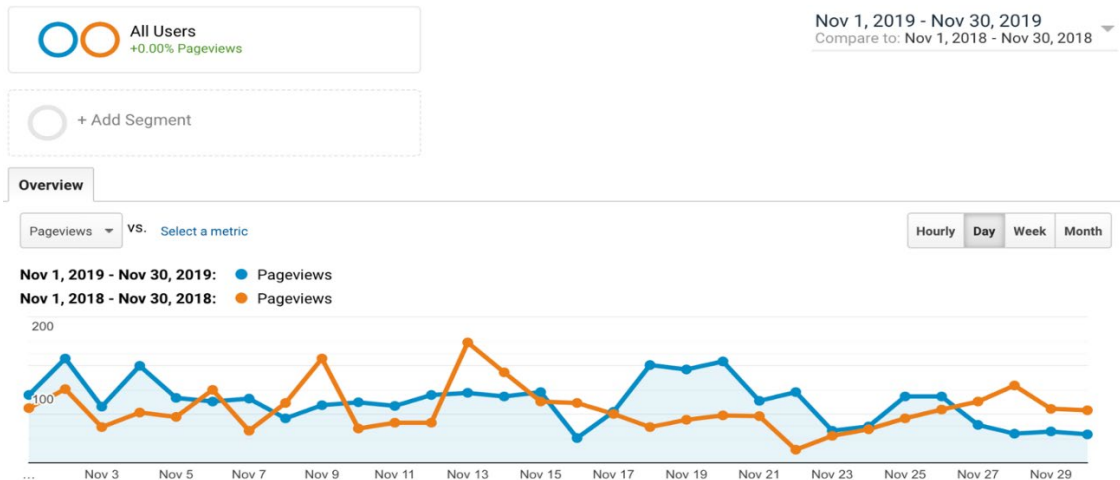
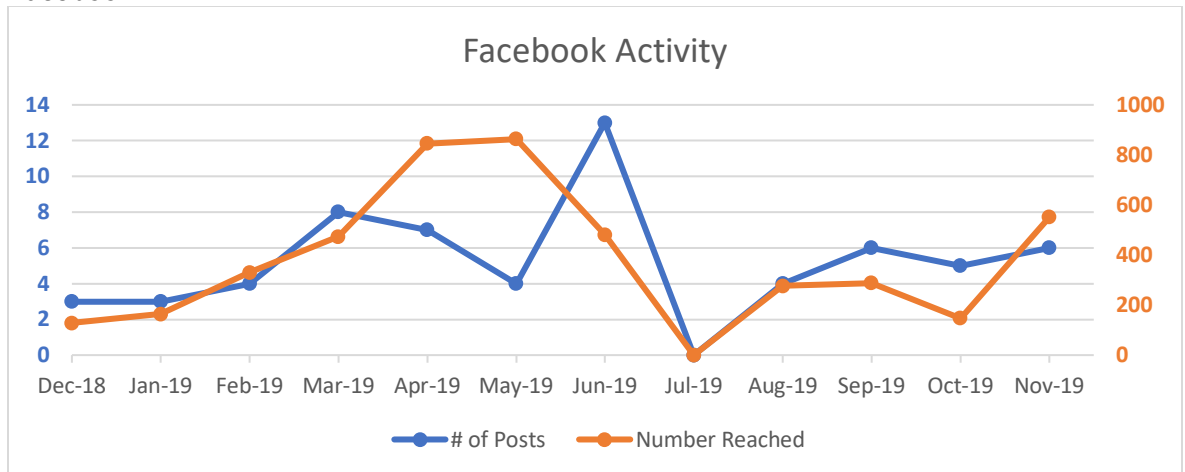


Figure 4. Comparison of website users over the past two years for November.

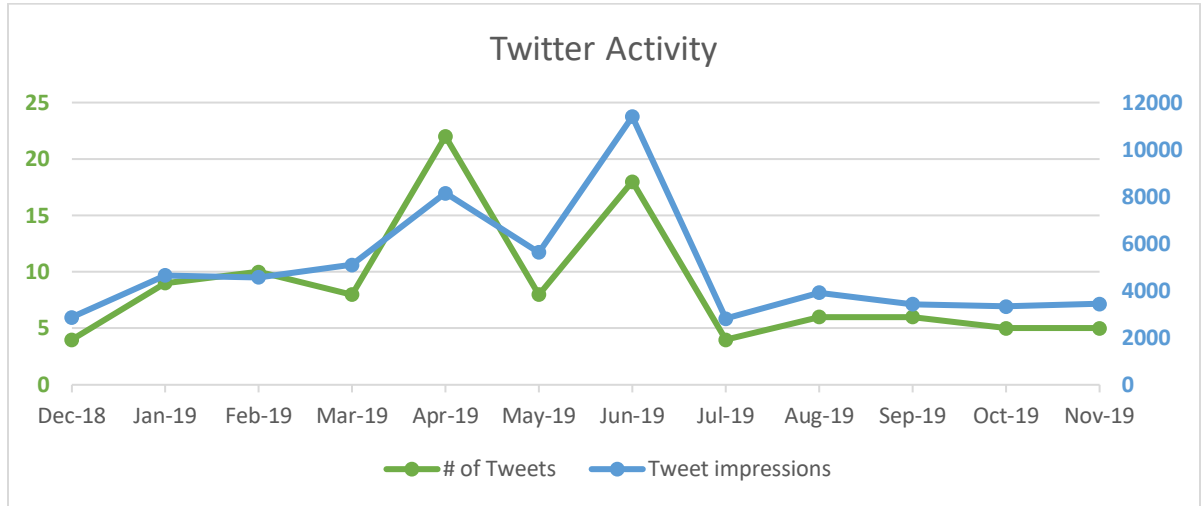
## C. Facebook



**Total Number of Followers:** 203 (Up from 201 in October)

**November's Most Popular Post:** Rain is finally in our forecast this week! Make sure to cover or tip over any containers that might fill with water to help prevent mosquitoes from breeding later. 🌧️🦟 (photo)

**D. Twitter**

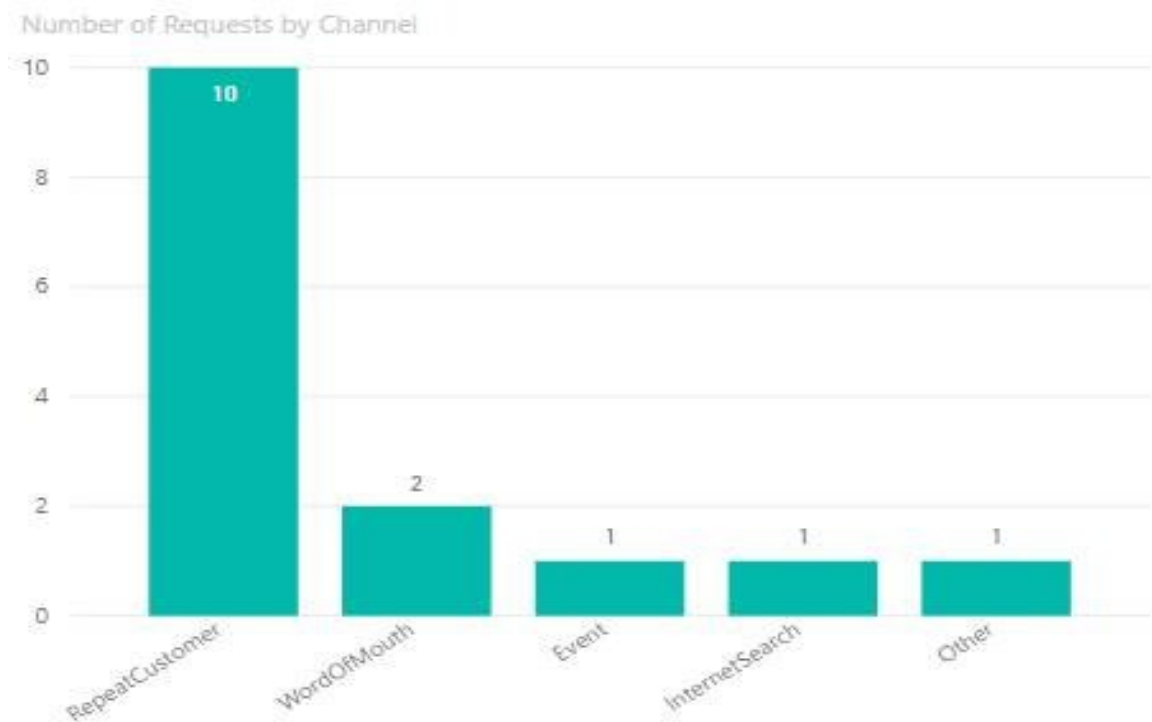


**Number of Profile Visits in November: 43**

**Total Number of Followers (New This Month): 689** (up from 680 in October)

**Top November Tweet:** Rain is finally in our forecast this week! Make sure to cover or tip over any containers that might fill with water to help prevent mosquitoes from breeding later. 🌧️🦟

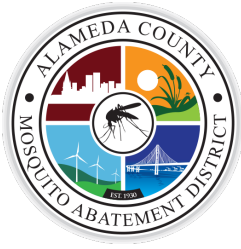
**E. Service Request Referral Summary**



**Note:** Movie theater ads, billboard, sign, poster, internet ad, social media, property tax bill, district vehicle, employee, and phone book are also options for this question but were not included on this chart because they were not selected in November. Those who selected “Other” did not specify how they heard about us.

**4. LEGISLATIVE UPDATE:**

Nothing new to report.



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### 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 trustee on their anniversary in December.

Trustee	City	Years of Service	Anniversary Date
Betsy Cooley	Emeryville	3	December 6 <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*