



SHASTA MOSQUITO AND VECTOR CONTROL DISTRICT

August 16, 2016 1:00 P.M.

District Office, 19200 Latona Road, Anderson, CA 96007

MINUTES OF THE REGULAR MEETING OF THE BOARD OF TRUSTEES

1. Call to Order: District Board President Mr. Stephen Morgan called the meeting to order at 1:00 P.M.

Roll Call

Trustees Present: Stephen Morgan, President
 Vickie Marler, Vice President
 Larry Mower, Secretary
 Dale Dondero, Trustee
 Mike McNamara, Trustee

Trustees Absent: None

Others Present: Peter Bonkrude, District Manager
 Darcy Buckalew, Administrative Office Manager
 John Albright, Vector Ecologist

2. Pledge of Allegiance: The meeting opened with the Pledge of Allegiance. **Trustee Dondero led the pledge of allegiance.**
3. Approval of Agenda: **A motion was made by Secretary Mower and seconded by Vice President Marler it was agreed to unanimously to approve the agenda.**
4. Public Comment: President Morgan stated that this is the time for any person wishing to address the Board to do so.
5. Consent Calendar –
 - a) Minutes of the Regular Board Meeting held July 19, 2016.
 - b) July Payables in the amount of \$365,660.75. **A motion was made by Trustee McNamara and seconded by Secretary Mower and it was agreed unanimously to approve the consent calendar.**

6. Items Removed from the Consent Calendar –

7. Correspondence/Informational:

- a) Shasta Mosquito and Vector Control District Financial Report at 7/31/2016-
The District Manager stated that we are at the beginning the 2016-2017 fiscal year. Everything is where it should be at this time of the year. We will be accruing income into August for property taxes and billing. We have set up a separate fixed asset account to track the remodel expenditures, the first item, permitting, is noted on the balance sheet.
- b) California Arbovirus Surveillance Bulletin #22- Week of August 5, 2016 – The
District Manager stated that the Bulletin shows as of August 5, 2016. The District Manager stated there are 834 WNV positive birds in 28 counties; we are over for dead bird positives. There have been 1,841 WNV positive pools in 30 counties as of this date and we are ahead of the 2015 WNV positive pools amount. There are now 10 WNV positive humans in 8 counties with Tehama having one. Of the 10 human cases one has resulted in a fatality. We were just informed today that Butte County has reported 3 human cases. St. Louis encephalitis virus (SLEV) 70 positive mosquito pools reported from two counties; Riverside and Kern. There are also 84 WNV seroconversions on sentinel chickens in 12 counties. The District Manager stated that across the state the numbers are up compared to 2015. We currently have 4 WNV positive mosquito pools as well as one WNV positive dead bird.
- c) VCJPA Member and Property Contingency Funds at 6/30/16-The District Manager stated that this is the District's VCJPA Member Contingency Fund at the quarter and fiscal year ending 6/30/16 showing a balance of \$332,097. The Property Contingency Fund at the quarter and fiscal year ending 3/31/16 showing a balance of \$30,528. The prudent fund over amount is 109,263. We only need 222,834 for our prudent fund currently our balance is 332,097.
- d) Buzz about Employees- John Albright, Vector Ecologist. John is a long time resident of Northern California and has lived in Redding off and on since 1998. John is the middle child of five and also the only male sibling. His parents just recently celebrated their seventieth wedding anniversary. John graduated from CSU Chico with a BS in microbiology and a minor in chemistry. He began work for the District in 1997 after 8 years with the Shasta County Department of Agriculture Weights and Measures. John and his wife Linda were married in 1981 and have one daughter, Lee, together and John has one stepson Jake as well as two grandchildren. John enjoys music and plays a variety of stringed and wind instruments. Currently John plays the tuba regularly and is playing with local groups including Shasta Symphony Orchestra, Shasta Symphonic Band, Red Bluff Community band and the Shasta Brass. The board stated they enjoy reading buzz about Employees.
- e) Strategic Plan Update- The District Manager stated this agenda item has been updated and sections highlighted for the staff and board members to view easily.

8. Manager's Report – This District Manager stated as we move into August, the risk to people from West Nile virus hits its peak in our area. Typically during this time we see our peak mosquito abundance numbers and incidences of West Nile virus in our disease sentinels rising. The good news is that despite average or above average mosquito populations we

have not been able to isolate another positive mosquito sample since our first in July. However, that unfortunately does not mean our risk is zero, and to support that we did get a positive dead bird in the Palo Cedro area. The wide span between positives would suggest that we continue to have active West Nile transmission throughout the district. Since our last report, human cases have been creeping northward with Tehama County reporting their first human West Nile case this year. Additionally, many Sacramento Valley counties are reporting West Nile activity at levels that match or exceed 2015. Throughout this period, while continuing to focus on West Nile virus response and mosquito control, we also were able to conduct an operational research project, namely our Swath Width Characterization study. We will be presenting our results to the board later in the year, but the short explanation of the trial is that we are attempting to assess our impact in a real world fogging landscape the efficacy of our application methods. The trial went well and we are excited to continue with replications to confirm our preliminary results. It is important to always challenge our techniques and products to ensure we are providing the best mosquito control we can to our residents. Another note is we did receive permit plans from our architect yesterday and the District Manager stated he is reviewing them and the architect is to submit to the county later this week.

9. Department Reports:

- a) Guangye Hu, Ph.D., Assistant Manager - Operations Report – The District Manager stated that the Assistant Manager was out with an employee and he would present the report on his behalf. During this report period the Operations Department responded to the first West Nile virus (WNV) positive mosquito pool and the first WNV+ dead bird, completed the summer pool project, and continued to focus on the control of disease transmitting mosquitoes - the *Culex*. A total of 44 service requests were received from 14 communities, in which most were from the Redding area (36.4%), followed by Anderson (22.7%), and all other communities each had less than 10%. Among the types of service requests, 39.0% were requests for mosquitofish, 31.7% for mosquito complaints, 17.1% for neglected swimming pools, and 7.3% for both mosquito fish and mosquito complaints. Staff inspected a total of 2,396 sites in 17 communities to determine if mosquito breeding was present. Of the inspections, 30.4% were made in Anderson, 28.4% in Redding, 20.8% in Cottonwood, and 6.3% in Enterprise. Staff made 506 applications for treating mosquitoes. Of the applications, 21.5% were for controlling mosquito adults, 77.7% for controlling mosquito larvae, and less than 1% for controlling vegetation to facilitate mosquito control. Mosquitofish were released to 85 permanent and semi- permanent water bodies across the district as biological control agents to control mosquito larvae and pupae. A mosquito pool sampled in the Northern Anderson area tested positive for WNV. It was the first indicator of WNV activity in the District in 2016. The staff responded with an enhanced breeding source search; four teams each with two technicians were sent to inspect each quadrant of about one-mile radius from the positive sample site and treat the sources found breeding mosquitoes. Staff also conducted enhanced adulticiding in those areas; if any traps in that area had mosquito populations reach thresholds, the area surrounding the trap sites would be fogged three times in a row with at least one PM fogging. The first dead bird was collected in Palo Cedro and tested positive for West Nile virus. Vector techs were sent to conduct a concentrated source search and treatment of immature mosquitoes. No fogging was needed due to lack of thresholds of adult mosquitoes in traps. Neglected swimming pools usually breed *Culex* mosquitoes that transmit West Nile virus. One unmaintained pool can produce more than a million mosquitoes during the season. In 2016, the District continued using Franklin Aerial

Services to detect neglected swimming pools. A total of 727 pools were identified by staff for ground inspections. Redding had 78% of the pools, Cottonwood, Anderson, and Shasta Lake had 10%, 9%, and 3%, respectively. The inspection results showed that 49% of the pools were maintained, 19% had no mosquito larvae or pupae found, 12% (88) were treated with either chemical products (25) or mosquitofish (63), 8% were not pools, 6% had mosquitofish present, 5% (36) were winter pools that were inspected and treated as needed during the winter-spring season, and 1% were colored pools. Of all the identified pools, 17 (2%) needed warrants to access for inspection and treatment. The District Manager added that the Assistant Manager reviewed the history of the aerial pool program. The aerial pool program was initiated to respond to the increased property foreclosures due to the economic downturn in the U.S. in 2008. The year 2009 was the worst year with neglected swimming pools. Our 9-years pool results, however, showed that each year after the economic depression, a number of pools were still detected breeding mosquitoes. Furthermore, in 2016, the number of treated pools was resumed to the level of 2009. There were 88 pools treated in the summer in addition to the 10 detected in the summer but previously treated in the winter-spring season. This indicates neglected swimming pools continue to be a problem for “urban” mosquito breeding throughout our District boundaries. The cost of the aerial program has not been significantly increased since 2009, even with extended scope of fly-over areas and improved technology. Franklin Aerial Services specializes in high resolution mapping-quality imagery and expert image analysis with most affordable neglected pool detection system in the industry. The aerial program is still an effective and economical tool to be used to detect neglected swimming pools. The Assistant Manager noted some staff visited the Beneficial Insectary, Inc. site in Redding. Trustee Dondero asked what Beneficial Insectary was. The District Manager stated they produce and apply beneficial organisms used in biological pest control and integrated pest management programs. As far as our contact and concern with them it has to do with the wash water and where it is resting and creating a mosquito habitat. They are currently working with the Regional Water Control Board as well as Vestra trying to come up with a plan to control their excess water situation. We are trying to work with them to keep mosquitoes controlled in the standing water they are creating. Trustee McNamara asked about our source surveillance response and if it would be similar if we were to have Zika present in our District. The District Manager stated that if we were to have Zika present in our district surveillance would be more time and labor intensive because we would have to go door to door inspecting each house individually, whereas now we are looking at a wider area. Adulticiding is just one part of what we do we begin with source and larvaciding to minimize the adulticiding.

- b) John Albright, Vector Ecologist – Vector Ecology Report –The Vector Ecologist stated that Mosquito populations as measured by both New Jersey-style light traps and CO₂-baited encephalitis virus surveillance (EVS) traps peaked the first week of this report period then quickly declined below seasonal averages. There is really nothing special about the weather or other conditions this year to account for this dramatic drop. *Culex spp.* mosquitoes still are the predominant types of mosquitoes in the traps. These are the mosquitoes of greatest concern for West Nile virus (WNV) transmission. The District initiated surveillance for the exotic invasive mosquito species *Aedes aegypti* and *Aedes albopictus*, which are potential vectors of Zika, Chikungunya, and Dengue viruses, at five mobile home parks and Home Depot. The District is using a new type of trap (CDC-AGO) designed to catch female mosquitoes seeking egg-laying stagnant water sources. So far these traps have not caught any mosquitoes at all, which is good news. A single sample of 44 *Culex tarsalis* mosquitoes collected on July 12 was found positive for WNV.

This was the first detection in mosquito samples or any other type of surveillance of any mosquito-borne diseases within the District so far this year. The District submitted 173 samples containing from 13 to 50 *Culex spp.* mosquitoes each to UC Davis to be tested for the presence of mosquito-borne diseases during the report period. This brings the total number of mosquito samples submitted this mosquito season by the District to 378. The second detection of WNV within the District was a single saliva sample from a dead scrub jay submitted on August 2 and found to be positive for the presence of WNV. This is the only dead bird saliva sample collected for testing so far in 2016. This and the aforementioned WNV+ mosquito sample are the only two detections of mosquito-borne disease within the District so far in 2016. No chicken blood samples have been found positive for mosquito-borne disease antibodies so far in 2016. Bottle bioassays were done on mosquitoes from two locations within the District to assess whether local mosquitoes are showing any signs of resistance or tolerance to products that we use for adult mosquito control. Two types of pyrethroid active ingredients were used as well as malathion, which has a different mode of action. All mosquitoes were found to be highly susceptible to malathion, but some mosquitoes from both locations seemed to show some tolerance for the pyrethroid products. Samples of mosquitoes from these sites will be sent to the California Department of Public Health in the near future for genetic testing to determine if the apparent tolerance to pyrethroids is due to the knock-down resistance (KDR) gene. This mutation was found in local mosquitoes last year. We do not yet have good information on the distribution or persistence of this exact mode of resistance within our local mosquito populations. The Vector Ecologist demonstrated the BG sentinel trap and how it works to trap the *Aedes* mosquitoes.

10. Committee Reports

- a) Executive –
- b) Financial –
- c) Personnel –
- d) Oversight Committee-
- e) Ad Hoc Build Committee-

11. Old Business:

12. New Business:

- a) Discussion and/or Possible volunteer to the California Special Districts Association (CSDA) Committee & or Expert Feedback Team Participation. The District Manager stated the Shasta Mosquito and Vector Control District is a member of the California Special Districts Association (CSDA). This item is on the agenda in the event that a Board member wishes to volunteer for the CSDA Committee & or Expert Feedback Team Participation. The District Manager added that CSDA does not reimburse committee members for their related travel expenses for Committee meetings as outlined in their policy. Reimbursement for expenses associated with required attendance at CSDA committee meetings would have to be provided by the District. The CSDA Expert Feedback team is conducted via email and phone and does not require travel. **No Board Action taken.**
- b) Discussion and/or approval for up to (2) individuals to attend the 2016 Mosquito and Vector Control Association of California (MVCAC) Fall Meeting in Seaside, CA at a cost not to exceed \$825.00 per person from accounts #35950 Lodging, #35900 Travel Expenses, #35941 Travel Mileage, and #35949 Meals. The District Manager stated the

MVCAC Fall Meeting is an educational and networking opportunity consisting of training, workshops, committee meetings and a Board Meeting. The District Manager currently serves on the IT Committee, the Regulatory Affairs Committee and is the regional representative on the MVCAC Board. **A motion was made by Secretary Mower and Seconded by Trustee Dondero and it was agreed unanimously to approve 2 individuals to attend the 2016 Mosquito and Vector Control Association of California (MVCAC) Fall Meeting in Seaside, CA at a cost not to exceed \$825.00 per person from accounts #35950 Lodging, #35900 Travel Expenses, #35941 Travel Mileage, and #35949 Meals.**

- c) Discussion and/or approval to authorize the District Manager to solicit Uniform Rental and Laundry Service request for proposals to all qualified vendors providing such services in the area. The District Manager stated the district supplies uniforms and laundry services for its field employees. The District has been with the current uniform and laundry service G and K Services since 2012. The original contract called for a three year term with the option for a year to year contract past that mark. We are now in our fourth year with G and K and although the service level is largely satisfactory, its good practice to periodically test the market for price and quality. The District will evaluate the responding vendors based on work history references, technical expertise, ability, resources and other pertinent factors, including cost. The District reserves the right to reject all bids. **A motion was made by Trustee Dondero and seconded by Secretary Mower and it was agreed unanimously to authorize the District Manager to solicit Uniform Rental and Laundry Service request for proposals to all qualified vendors providing such services in the area.**
- d) Discussion and/or approval to authorize the District Manager to solicit proposals for an Auditing services firm for a three (3) year term, beginning with the fiscal year 2016-2017 year end independent annual audit. The District Manager stated that we have contracted with Kcoe Isom since 2011 for the District's Annual Independent Audit. This year, our representative at Kcoe Isom communicated that the year end 2015-2016 Annual audit would be the last Kcoe Isom would perform for the District. It is generally considered a good practice for special districts to solicit proposals for auditing services every 5-7 years to discourage complacency and to provide the Board with fresh eyes on the District's financial statements. If approved, staff intends to solicit bids to qualified bidders in the Northern California area. These proposals will be brought back to the Board at a later board meeting with a staff recommendation. **A motion was made by Secretary Mower and seconded by Trustee McNamara and it was agreed unanimously to authorize the District Manager to solicit proposals for an Auditing services firm for a three (3) year term, beginning with the fiscal year 2016-2017 year end independent annual audit.**

13. Trustee Comments, Requests for Future Agendas Items and/ or Staff Actions: *The Board may not legally take action on any item presented at this time other than to direct staff to investigate a complaint or place an item on a future agenda unless (1) by a majority vote, the Board determines that an emergency situation exists, as defined by Government Code Section 54956.5, or (2) by a two-thirds vote, the board determines that the need for action arose subsequent to the agenda being posted as required by Government Code Section 54954.2(a).* Trustee Dondero stated he would not be at the September board meeting and asked if that was one of the meetings being considered for cancellation. The District Manager stated that at this time September was not going to be cancelled possibly a later one. The District Manager asked the board members to let staff know if there is a preferred month to cancel than another. Vice President Marler

asked about the Zika graph that was handed out. The District Manager stated that that the Zika virus infections in California have been documented only in people who were infected while traveling outside the United States. To date there has been no local mosquito-borne transmission of Zika virus in California. Trustee McNamara asked about a vaccination for Zika. The District Manager stated they are working on one with great potential but it will take some time, most likely years to be able to use it and that is on the fast track.

14. ADJOURNMENT –

Upcoming Events and SMVCD Office Schedule:

- *September 5, 2016 Holiday, Labor Day, office closed*
- *September 11-15 SOVE Annual Conference Anchorage, Alaska*
- *September 20, 2016 SMVCD Regular Board of Trustees Meeting (SMVCD Boardroom)*
- *October 18, 2016 SMVCD Regular Board of Trustees Meeting (SMVCD Boardroom)*
- *October 26-27 MVCAC Fall Meeting, Seaside, CA*

Upcoming Training:

- **Available anytime: web-based**, required (every 2 years) *Ethics Compliance Training – AB1234* - paste the following link into browser: <http://fppc.gov/index.php?id=477>. Once you have completed this course, be sure to print out your certificate of completion and bring a copy to the office for our files.

The Board meeting was adjourned at 1:44 p.m.

MINUTES APPROVED: _____
