



SHASTA MOSQUITO AND VECTOR CONTROL DISTRICT

July 18, 2017

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 Vickie Marler called the meeting to order at 1:01 P.M.

Roll Call

Trustees Present: Larry Mower, Vice President
Mike McNamara, Secretary
Ann Morningstar, Trustee

Trustees Absent: None

Others Present: Peter Bonkrude, District Manager
Darcy Buckalew, Administrative Office Manager
Guangye Hu, Assistant Manager
John Albright, Vector Ecologist- Absent

2. Pledge of Allegiance: The meeting opened with the Pledge of Allegiance. **Trustee Morningstar.**
3. Approval of Agenda: **A motion was made by Vice President Mower and seconded by Trustee Morningstar to unanimously approve the agenda.**
4. Public Comment: President Marler 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 June 20, 2017.
 - b) June/July Payables in the amount of \$432,913.53. **A motion was made by Vice President Mower and seconded by Secretary McNamara and it was agreed 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 6/30/2017-
The District Manager stated that we are where we should be with income and expenses. We ended our 2016-2017 fiscal year which is the second complete year under the new treasury system. We received most of our income and as of this date we are below budget overall and on target for income. We will be booking accruals into late July early August to complete the 2016-2017 fiscal year.
- b) California Arbovirus Surveillance Bulletin #14- Week of July 7, 2017 – The District Manager stated that the Bulletin shows as of July 7, 2017. The District Manager stated there are 51 WNV positive birds in 12 counties. There have been 490 WNV positive pools in 15 counties as of this date. There are three WNV positive humans in Kings County, Kern County and Los Angeles County. Overall the WNV positive numbers are lower than last year at this time.
- c) Compliments to the District-The District Manager stated that Linda from Shasta Lake City called in to praise Robert on what a wonderful job he has done and to thank him for always contacting them and making sure the mosquito issues are addressed. The District Manager also wanted to add kudos to all staff for stepping up during the Fourth of July week and filling in where needed. Staff demonstrated team work by taking fogging routes out of their zones as well as the lab working hard to make sure traps were set and collected so fogging routes could be scheduled. Thank you all.
- d) 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.
- e) Pesticide Award- The District Manager stated the attached sheet showed the pesticide award for Target, Univar, AdapCo, Clarke and Valent. All products were ordered for the new fiscal year and most have arrived at the District. There are only a few products that are outstanding.
- f) Trustee 101 Training Dates- The District Manager stated Trustee 101 training was developed for our Trustees to help them better understand the District and what it means to be a board member. The District Manager went over some of the items to be discussed as part of the training. The board members discussed the dates. The Administrative Office Manager stated she would reach out to see who is interested and then narrow down a date in July or August for the training.

8. Manager's Report – The District Manager stated during this report period, time has been spent working with the new intern and seasonal hire for training and the creation of the catch basin categorization app. Additionally, the District Manager stated he has been working on several mapping projects for operations staff, our volunteer masters student and the catch basin program. We also received and process the aerial imagery for this season, hoping to inspect all potential mosquito breeding habitats by the end of July. In preparation for the new fiscal year, prepared and tabulated the pesticide bids, began planning for a budgeted website upgrade, starting planning for several talks scheduled in August and September to City of Redding staff and PAPA (pesticide applicators), a larval surveillance plan for proposed vegetation mats at Sierra Pacific-Shasta Lake, long-range planning and analysis regarding CalPERS pension costs to be presented to the Board in the Fall, continued development focused on the visual gateway reporting module with the State surveillance and control database, and completing the draft pay

in lieu of abatement plan. The District Manager also added that the construction schedule should be out this week and we are waiting on the County for permits. President Marler asked about the timeline of the project. The District Manager stated approximately 3 months depending on weather.

9. Department Reports:

- a) Guangye Hu, Ph.D., Assistant Manager - Operations Report – The Assistant Manager stated during this report period, the Operations Department added another seasonal employee, Garrett Hawkinson, and an intern, Rachel Evernden. The District also received two new foggers which were calibrated and installed today. Besides inspecting and treating mosquito sources, Garrett focuses on larvicide efficacy tests while Rachel focuses on GIS mapping of catch basins in our District. The remaining staff focused on battling disease-transmitting *Culex* mosquitoes, carried out the annual inspection/treatment of catch basins and started the summer neglected swimming pool program. A total of 48 service requests were received from 12 communities. It was down from the previous month (196). The decrease was due to the transition from treehole mosquitoes to disease transmitting *Culex*. Of the service requests, 56% were from the Redding area, 16% from Anderson, and 8% each from Shingletown and Lakehead. Among the types of service requests, half (50%) were for mosquito fish, 35% for mosquito complaints, 4% for mosquito fish and mosquito complaints, and 2% for neglected swimming pools. Staff completed a total of 2,855 inspections in 16 communities for mosquito breeding, of which Anderson had 31.7%, Redding 27.2%, Cottonwood 19.4%, and Enterprise 6.5%. Staff made a total of 583 treatments, of which 85.4% were larviciding to control mosquito larvae and pupae, 13.0% were adulticiding to control adult mosquitoes, and 1.5% were herbiciding to open up or maintain accesses to treating the sources. Of the 498 treatments made for controlling mosquito larvae and pupae by different products, 36.6% were by spinosad, 26.9% by microbial products such as BTI, 17.3% by releasing mosquito fish, 10.1% by surface oil which forms a monomolecular film on water to suffocate mosquito larvae and pupae, and 9.2% by insect juvenile hormones (methoprene). The Catch Basin Program was developed because catch basins can cause a serious mosquito-breeding problem in the urban and suburban areas. They collect and retain water from rain and excessive irrigation of landscaping and breed *Culex* mosquitoes that play important roles in West Nile Virus (WNV) transmission. Each year the staff inspects the catch basins within the District boundaries in the summer and treats those that hold water, potentially breeding mosquitoes. This year staff inspected 6,983 catch basins, of which 965 (13.8%) were treated with immature control products. Anderson and Cottonwood had the highest percentages of treated catch basins (27%), followed by Palo Cedro (19.3%). The urban areas (Redding and Enterprise), however, had lower percentages (13.1% and 10.4%). This may be due to the City of Redding Public Works Department's efforts in recent years to inspect and clean the catch basins within their jurisdictions. Catch basins in higher risk areas (with heavy traffic) were inspected and treated in the early morning (3:00-6:30 AM) by paired-up technician teams. Most of the catch basins in other areas were done during the regular day-shift hours. A total of 461 man-hours were spent on this program.
- b) John Albright, Vector Ecologist – Vector Ecology Report –The District Manager presented the Vector Ecology report. The adult mosquito populations as measured by the District's 45 weekly CO2-baited encephalitis virus surveillance (EVS) traps were right at seasonal norms for this time of year. We had anticipated that they might be higher due to high precipitation this year. This most likely did not happen because EVS traps are typically set in areas that have historically and perennially maintained good mosquito breeding habitats, even during the drought years. The District's 15 New Jersey-style light traps have also shown populations

about normal, though the deviations from the average from week to week seem to be a little higher with these traps than with EVS traps. *Culex spp.* mosquitoes are the predominant type of mosquitoes being found at this time of year. This is important because these are the types of mosquitoes capable of transmitting West Nile virus. This trend is expected to continue through the remainder of the season. No West Nile virus or other mosquito-borne virus diseases have been detected within Shasta Mosquito and Vector Control District so far in 2017. With peak *Culex spp.* populations anticipated during the upcoming report period, it is also most likely that West Nile virus activity will begin to be detected and increase during that time frame. During this report period 99 mosquito samples of from 12 to 50 mosquitoes were submitted to UC Davis to be tested for the presence of mosquito-borne viruses. This brings the total number of samples submitted in 2017 to 161. No mosquito-borne diseases have been detected in any mosquito samples submitted by the District so far in 2017. Blood samples from the District's five sentinel chicken flocks (40 total birds) have been taken every two weeks since the beginning of May and were submitted to the California Department of Public Health (CDPH) lab in Richmond to test for antibodies to mosquito-borne viruses. No antibodies to mosquito-borne viruses have been found in any chicken blood samples submitted so far in 2017. Blood samples are next scheduled to be taken on July 13. One dead scrub jay was reported to the District through the CDPH dead bird hotline on June 26 from the French Gulch area. The bird was picked up by the District, but was too badly decomposed to test for West Nile virus. This is the only dead bird that has been collected within the Shasta Mosquito and Vector Control District in 2017. The District submitted 24 samples of 12 to 50 western treehole (*Aedes sierrensis*) mosquitoes each, 729 total mosquitoes, to University of the Pacific to be tested for the presence of canine heartworm (*Dirofilaria immitis*) and other parasitic nematode diseases. Five samples came back positive for heartworm for a minimum infection rate of about 7 infected mosquitoes per 1,000 mosquitoes tested. This is about one out of every 145 *Aedes sierrensis* mosquitoes spread throughout the District. Locations found positive were Northwest Redding, Mountaingate, Enterprise, and two locations in southwest Redding. The District is still collecting some of these mosquitoes and will submit another small batch of *Aedes sierrensis* samples in another week or so to see how infection rates may have changed over time. The District is being proactive in searching for invasive *Aedes spp.* mosquitoes that are capable of transmitting diseases such as Dengue, Chikungunya, yellow fever and Zika viruses. The District added four new trap locations to an array of traps designed to catch female invasive *Aedes spp.* mosquitoes looking for water-filled containers to lay eggs in (CDC-AGO traps). The District currently has 10 CDC-AGO traps set at high risk locations within the District, and plans to set more, along with some other types, as the season progresses to bolster this surveillance program. President Marler asked if the mosquito populations are less this year than last year. The District Manager stated that numbers throughout the state are lower but we are starting to see increases. One of the issues could be due to the unstable weather we had in May could have thrown off the breeding schedule of the mosquitoes which could just put off the season until end of July or August.

10. Committee Reports

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

11. Old Business:

12. New Business:

- a) Discussion and/or approval authorizing the withdrawal and wire transfer of Shasta Mosquito and Vector Control District monies from the Shasta County Treasury in an amount of \$800,000 to be deposited into the District's Wells Fargo Banking account. When the District created the new financial accounting system monies were transferred to the District's Wells Fargo banking account to pay for payroll, accounts payable and other District warrants for payment. At least quarterly, the District will replenish the Wells Fargo account from the Shasta County Treasury. This will be the first transfer of the 2017-2018 fiscal year. President Marler asked if we will need to transfer more money for the consecution. The District Manager stated if we do we will aigenized a special transfer. **A motion was made by Vice President Mower and Seconded by Trustee Morningstar and it was agreed unanimously to authorize the withdrawal and wire transfer of Shasta Mosquito and Vector Control District monies from the Shasta County Treasury in an amount of \$800,000 to be deposited into the District's Wells Fargo Banking account.**
- b) Discussion and/or approval to provide staff with direction regarding the proposed pay in lieu of service program, set to roll out at the end of this mosquito season. The District Manager stated in 2016 staff began compiling data and ideas on how to revise and formalize the District policy regarding pay in lieu of abatement. The most reasonable idea to formalize this policy would be formal agreements that would compel the property owner to better manage their land regarding mosquito production. Staff is proposing the following steps for the 2017, 2018, 2019 and 2020 mosquito season. Continue with status quo billing for the remainder of the 2017 mosquito season, Alternative number one would be only bill larvicides. Alternative number two would be bill product only, no labor. Starting January 1st, 2018 halt all invoicing until formal agreements can be signed between the District and the property owners. We would first make an initial phone call to the filtered properties with an average of \$1,500 or more per year over a 7 year period. Then follow up the initial phone with an initial letter that was presented to the board. If there was no response is given the District would follow up with second letter. We would then organize a meeting with the property owner/manager to discuss potential best management practices (BMP) for mosquito breeding reduction. The property owners that comply with step 2 and 3 will see a reduction to larval product cost only. We would offer a MOU with the property owner in lieu of abatement, which if required would revert to the property owner paying 100% of all costs associated with mosquito control on the property. If any BMP actions are taken and maintained regularly, the property owner will see a discount of 25% of the product cost. Annually we will run the cost analysis and any property owner that falls off the \$1,500 per year average for 7 years will no longer be billed. The timeline will be initial meeting within the 2018 calendar year to identify BMPs, 2019 will be applying the BMPs and 2020 would be the first year of billing. For the properties currently being billed, the timeline could be drastically reduced. The staff recommends authorizing District staff starting July 1, 2017 to continue invoicing the current list of property owners through the 2017 mosquito control season, but reduce the billing to control product cost and remove labor fees. Engage District counsel with drafting a template MOU that would capture the above process and discounts associated with compliance and provide direction to staff to draft a policy that captures the above or alternate process for dealing with properties that require extraordinary abatement costs to maintain control. This fiscal impact of this will reduce the District's revenue in account #692700 which is currently budgeted for \$20,000 for the 2017-2018 fiscal year. However, the hope is the reduction in staff labor and control products will help to close the potential gap. President Marler added is it fair to say that a

third will work with us, a third will open lines of communication and the remaining third will be difficult. The later third will probably be where our time is spent. The District Manager agreed and discussed drafting a policy. Secretary McNamara asked how long before we see the changes. The District Manager stated 2-3 years. If they work with us we will be able to get started sooner. Trustee Morningstar stated if the identified parcels are shown to be large mosquito sources then the property owners should not get away with creating these sources. Discussion followed. **A motion was made by Vice President Mower and Seconded by Trustee Morningstar and it was agreed unanimously continue with status quo billing for the remainder of the 2017 mosquito season billing only product and no labor and in 2018 stop billing until formal agreements can be signed between the District and property owners.**

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 Morningstar stated she saw the Discovery channel show on mosquitoes and it was great. The District Manager stated you can also see it online at Discovery.com. Vice President Mower stated he has a new great grandson born. Trustee McNamara suggested one of his neighbors may be interested in the open board position. The District Manager stated he use to work here and that is a good suggestion.

14. ADJOURNMENT –

Upcoming Events and SMVCD Office Schedule:

- *August 2, 2017, Discover Health - Redding Rancheria Health Fair-Win River*
- *August 15, 2017 Shasta MVCD Regular Board of Trustees Meeting (SMVCD Boardroom)*
- *September 4, 2017 Labor Day Holiday Observed*
- *September 19, 2017 Shasta MVCD Regular Board of Trustees Meeting (SMVCD Boardroom)*

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 2:12 p.m.

MINUTES APPROVED: _____
