



Coachella Valley Mosquito
and
Vector Control District

43420 Trader Place
Indio, CA 92201
Phone (760) 342-8287
www.cvmvcd.org

Board of Trustees Meeting

Tuesday, May 14, 2019

6:00 p.m.

AGENDA

Assistance for those with disabilities: If you have a disability and need accommodation to participate in the meeting, please call the Clerk of the Board at (760) 342-8287 for assistance so the necessary arrangement can be made.

1. **Call to Order** – Doug Hassett, President
2. **Pledge of Allegiance**
3. **Roll Call**
4. **Motion to Excuse Absences**
5. **Confirmation of Agenda**

Public Comments

Those wishing to address the Board should complete a Public Comment Card and provide it to the Clerk of the Board.

Non-Agenda Items: Persons wishing to address the Board on subjects other than those scheduled are requested to do so at this time. When addressing the Board, please come to the podium and give your name and address for the record. In order to conduct a timely meeting, a three-minute time limit per person has been established. California Government Code Section 54950 prohibits the Board from taking action on a specific item until it appears on the agenda.

Agenda Items: Comments should be made when the agenda item is called. Each presentation is limited to no more than three minutes.

6. Public Comments

7. Presentations

- A. General Manager's Report - **Jeremy Wittie, M.S., General Manager**

- B. IVM Program Update – **Jennifer Henke, M.S., Laboratory Manager, J. Wakoli Wekesa, PhD., Operations Manager Jill Oviatt, M.C.D.M., Public Information Manager**

8. Board Reports

- A. President's Report – **President Hassett**
 - Executive Committee Oral Report and Minutes for May 3, 2019 **(Pg. 6)**

- B. Finance Committee Oral Report and Minutes – **Treasurer Weightman**
 - Finance Committee Minutes for March 12, 2019 **(Pg. 8)**
 - Finance Committee Minutes for April 24, 2019 **(Pg. 10)**
 - Finance Committee Minutes for May 1, 2019 **(Pg. 12)**

9. Items of General Consent

The following items are routine in nature and may be approved by one blanket motion upon unanimous consent. Any member of the Board or the public may request an item be pulled from Items of General Consent for separate discussion.

- A. Minutes for March 12, 2019, Board Meeting **(Pg. 15)**

- B. Correspondence **(Pg. 20)**

- C. Approval of expenditures for April 10 to May 14, 2019 **(Pg. 32)**

- C. Informational items:
 - Financials **(Pg. 33)**
 - District Travel **(Pg. 46)**
 - Board Business Status Log **(Pg. 47)**
 - Staff reports from:
 - Pacific Branch Entomological Society of America Meeting March 31 to April 3, 2019, in San Diego, CA **(Pg. 49)**
 - MVCAC Spring Meeting and Legislative Day, April 2-3, 2019, in Sacramento, CA **(Pg. 50)**

- E. Approval for the annual renewal of Abila, MIP Fund Accounting, maintenance and support in an amount not to exceed \$12,600 from Maintenance Contracts Fund #7675.01.210.000 – Budgeted; Funds Available – **Edward Predez, Information Technology Manager (Pg. 54)**
 - F. Approval to purchase (1) one 2019 ARGO Frontier amphibious tract vehicle from ARGO Adventure in an amount not to exceed \$25,000 from Capital Replacement Fund #8415.13.300.000 – Budgeted; Funds Available – **Edward Predez, Information Technology Manager (Pg. 55)**
 - G. Approval to enter into an agreement with Cintas through a US Communities Purchasing Alliance contract for uniform service in an amount not to exceed \$30,500 per year, from Fund #7000.01.000.000, Uniform Expense – Budgeted; Funds Available – **Jeremy Wittie, M.S., General Manager (Pg. 56)**
 - H. Approval to remove, replace and install three vortex exhaust fan VFDs and contract with NSWC, Johnson Controls, and Zaretzky to complete the Laboratory's exhaust fan replacement project in an amount not to exceed \$20,000 from Facility Replacement Fund – Reserves, Funds Available – **David I'Anson, Administrative Finance Manager (Pg. 57)**
10. **Old Business**
- A. Approval of Resolution 2019-04 Adoption of the 2019 CVMVCD Mosquito-borne Virus Surveillance and Emergency Response Plan – **Jennifer A. Henke, M.S., Laboratory Manager (Pg. 59)**
11. **New Business**
- A. Approval to contract with Onyx, the lowest responsible bidder, for asphalt repair services of the District headquarters in an amount not to exceed \$111,000 from facility replacement fund – Budgeted at \$23,000; Funds Available – **David I'Anson, Information Administrative Finance Manager (Pg. 100)**
12. **Closed Session Public Comments**
Public Comments pertaining to the Closed Session item (A three-minute time limit per person has been established.)
13. **Closed Sessions:**
- A. Public Employee Discipline/Dismissal/Release Government Code §54957: Two matters.
 - B. Significant exposure to litigation pursuant to Government Code §54956.9(b): One matter.

14. **Closed Session Report**

15. **Trustee Comments, Requests for Future Agendas Items, Travel, 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). Each presentation is limited to no more than three minutes.

16. **Adjournment**

At the discretion of the Board, all items appearing on this agenda, whether or not expressly listed for action, may be deliberated and may be subject to action by the Board.

All public records relating to an agenda item on this agenda are available for public inspection at the time the record is distributed to all, or a majority of all, members of the Board. Such records shall be available at the District office located at 43420 Trader Place, Indio, California.

Certification of Posting

I certify that on May 10, 2019, I posted a copy of the foregoing agenda near the regular meeting place of the Board of Trustees of the Coachella Valley Mosquito & Vector Control District and on the District’s website, said time being at least 72 hours in advance of the meeting of the Board of Trustees (Government Code Section 54954.2)

Executed at Indio, California, on May 10, 2019.

Graciela Morales, Clerk of the Board

SECTION

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BOARD REPORTS

COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT

Executive Committee Meeting Minutes

TIME: 3:30 p.m. Friday, May 3, 2019

LOCATION: 43420 Trader Place, Indio, CA 92201

TRUSTEES PRESENT:

Indian Wells	Clive Weightman	La Quinta	Doug Hassett
Palm Desert	Doug Walker		

ABSENT:

County at Large Franz De Klotz

OTHERS PRESENT:

Jeremy Wittie, General Manager
Grace Morales, Clerk of the Board
Brad Anderson (member of the public)

- 1. Call to Order:** President Hassett called the meeting to order at 3:40 P.M.
- 2. Roll Call:** Roll call indicated three (3) committee members out of four (4) were present.
- 3. Confirmation of Agenda:** The Agenda was confirmed as presented.
- 4. Public Comments:** Mr. Brad Anderson commented he is in disagreement with the way the District has handled his employment matter. Mr. Anderson gave a letter to the Clerk of the Board to be included in the May 14, 2019 Board packet.
- 5. Closed Session:** A.Closed Session: Public Employee Discipline/Dismissal/Release (Government Code § 54957) Two (2) matters.
The Committee went into Closed Session at 3:42 p.m.

Executive Closed Session Item Report: President Doug Hassett announced there was no reportable action.

6. Public Comments: None.

7. Review of Draft May 2019 Agenda: The draft May Board meeting Agenda was reviewed by the Committee. Changes to the Agenda included, adding the AMCA MRF item to the May Board meeting Agenda, adding more details to item 9F (exhaust fans), 9H (contract with InterAccess) and 9I (onyx asphalt repair), moving item 11A (uniforms) to General Consent and moving item 9I (onyx asphalt repair) to New Business.

8. Ad hoc Research Committee Appointment: Members for 2019-20 cycle were confirmed: Vice President, Franz De Klotz, Secretary, Doug Walker, and Dr. Doug Kunz. President Doug Hassett will serve as an alternate member.

9. Discuss contribution to the AMCA MRF with some of the remaining funds from GL# 8510.01.600.000. Committee members asked for this item to be placed on the May 14, 2019 Board meeting Agenda.

10. Discussion of the District's Abatement Policy: General Manager, Jeremy Wittie, gave a brief oral overview and stated this item will be presented for in-depth discussion at the June Executive Committee meeting.

11. Trustee/Staff Comments: None.

12. Confirmation of Next Meeting Date: The next Executive Committee Meeting was scheduled for May 31, 2019, at 9:00 a.m.

10. Adjournment: The meeting was adjourned by President Hassett at 4:23 p.m.

COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT

Finance Committee Meeting Minutes

TIME: 4:30 P.M. MARCH 12, 2019

LOCATION: 43420 Trader Place, Indio, CA 92201

TRUSTEES PRESENT:

Clive Weightman Isaiah Hagerman
Bito Larson

TRUSTEES ABSENT: President Doug Hassett (alternate member)

STAFF PRESENT:

Jeremy Wittie, General Manager
David l'Anson, Administrative Finance Manager
Grace Morales, Clerk of the Board

1. **Call to Order:** Treasurer Weightman called the meeting to order at 4:35 p.m.
2. **Roll Call:** Roll call indicated three (3) committee members out of three (3) were present.
3. **Confirmation of Agenda:** The Agenda was confirmed as presented.
4. **Public Comments:** None.
5. **Items of General Consent:**

5A – Approval of Minutes from February 12, 2019, Finance Committee Meeting: On motion from Trustee Hagerman seconded by Trustee Larson, the Committee approved item 5A.

Ayes: Trustee Hagerman, Trustee Larson, and Treasurer Weightman.

Noes: None.

Abstained: None.

Absent: None.

6. Discussion and/or Approval:

6A. Review of Check Report from Abila MIP for the period of February 13, 2019 to March 7, 2019: Reviewed by Committee. Questions regarding certain checks were brought up by Committee members and staff provided additional information.

6B. CalCard Charges February 2019: Reviewed by Committee. Several questions regarding charges were asked by Committee members and staff provided additional information.

6C. Review of February 2019 Financials and Treasurer's Report: Reviewed by Committee.

6D. Budget Calendar: Reviewed by Committee and agreed to meet as scheduled.

6E. CalCard Rebate: Reviewed by Committee

7. Old Business: None.

8. New Business: None.

9. Confirmation of Next Meeting: The next Finance Committee meeting was scheduled for Wednesday, April 24, 2019 at 1:30 p.m. to review the first draft of the FY19-20 Budget.

10. Trustee and/or Staff Comments/Future Agenda Items: A Multi-Bank Securities, Inc. (MBS) bonds and CD's flyers were distributed to Committee members. Finance Manager David l'Anson stated this is pertinent to the District's reserve study. A discussion ensued. Trustee Hagerman asked to review the District's Reserve Policy and Treasurer Weightman suggested discussing items such as OPEB, healthcare, retirement, unfunded liability, and actuarial during the upcoming budget planning session. Additionally, it was recommended to review the District's Reserve Policy and update it as necessary.

11. Adjournment: The meeting was adjourned by Treasurer Weightman at 5:10 p.m.

COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT

Finance Committee Meeting Minutes

TIME: 1:30 P.M. APRIL 24, 2019

LOCATION: 43420 Trader Place, Indio, CA 92201

TRUSTEES PRESENT:

Indian Wells Clive Weightman Rancho Mirage Isaiah Hagerman
County at Large Bito Larson

TRUSTEES ABSENT: None (President Hassett is an alternate member of this Committee.)

OTHERS PRESENT:

Jeremy Wittie, General Manager
David l'Anson, Administrative Finance Manager
Grace Morales, Clerk of the Board
Brad Anderson (member of the public)

- 1. Call to Order:** Treasurer Weightman called the meeting to order at 1:36 p.m.
- 2. Roll Call:** Roll call indicated three (3) committee members out of four (3) were present. (President Hassett is an alternate member of this Committee.)
- 3. Confirmation of Agenda:** The agenda was confirmed with one exception: The meeting date originally stated was Tuesday, April 24, 2019; it should have been Wednesday, April 24, 2019. A revised Agenda was posted on the District's bulletin board and website as soon as the error was discovered on Tuesday, April 24, 2019.
- 4. Public Comments:** Brad Anderson stated he believes chemical treatment expenses were previously reported erroneously. He expressed his disagreement with the way some staff members are serving the District and he suggested removing the "no meeting" text from the Agenda area of our website. He also handed the Clerk of the Board a letter to be included in the upcoming Board packet.
- 5. Items of General Consent -**
Approval of Minutes from March 12, 2019, Finance Committee Meeting: On motion from Trustee Hagerman seconded by Trustee Larson, the Committee approved the March 12, 2019 meeting minutes.

Ayes: Trustees Hagerman, Larson, and Weightman

Noes: None.

Abstained: None.

Absent: None.

6. Old Business: None.

7. New Business:

a) CalPERS Discussion: A discussion ensued regarding the impending employer rate increase, the aspects of retirement and health insurance contributions, unfunded liability payments, the liability to the District, and aiming for fiscal stability.

b) Draft FY2019-20 Budget: The draft budget was reviewed by Committee members. Items discussed included: IT Capital Outlay Budget, staffing and payroll expenses, ADA compliance, the RIFA program, Toughbook replacements for technicians, proposed facility renovations, the retrospective adjustments to liability insurance and workers' compensation insurance, vehicle replacement schedule, solar panels, cyber security, the possibility to use the unassigned funds and the reserves to fund the CalPERS liability. The Committee asked David l'Anson, Administrative Finance Manager, to present various budgetary scenarios at the upcoming May 1, 2019 meeting. Additionally, the Committee requested an overview presentation of a five-year plan for IT capital replacement including expenditures forecast from IT Manager, Edward Prendez.

8. Confirmation of Next Meeting: The next Finance Committee meeting was scheduled for Wednesday, May 1 at 1:00 p.m.

9. Trustee and/or Staff Comments/Future Agenda Items: None.

10. Adjournment: The meeting was adjourned by Treasurer Weightman at 3:03 p.m.

COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT

Finance Committee Meeting Minutes

TIME: 1:00 P.M. MAY 1, 2019

LOCATION: 43420 Trader Place, Indio, CA 92201

TRUSTEES PRESENT:

Indian Wells Clive Weightman Rancho Mirage Isaiah Hagerman
President Doug Hassett arrived at 1:19 p.m. (alternate member)

TRUSTEES ABSENT: County at Large Bito Larson

STAFF PRESENT:

Jeremy Wittie, General Manager
David l'Anson, Administrative Finance Manager
Grace Morales, Clerk of the Board
Brad Anderson (member of the public)

- 1. Call to Order:** Treasurer Weightman called the meeting to order at 1:00 p.m.
- 2. Roll Call:** Roll call indicated two (2) committee members out of three (3) were present.
- 3. Confirmation of Agenda:** The Agenda was confirmed as presented.
- 4. Public Comments:** None.
- 5. Items of General Consent:**

Approval of Minutes from April 24, 2019, Finance Committee Meeting: On motion from Trustee Hagerman seconded by Treasurer Weightman, the Committee approved item 5.

Ayes: Trustee Hagerman and Treasurer Weightman.

Noes: None.

Abstained: None.

Absent: Trustee Larson.

6. Old Business: a) Draft FY2019-20 Budget

CalPERS Unfunded Liability scenarios presented by David l'Anson, Administrative Finance Manager were reviewed by the Committee. The Committee recommended moving forward with scenario #1 and #4 to be presented to the full Board for consideration. Other items discussed included: IT security, IT five-year plan with expenditure forecast, payroll adjustments, and possible future staffing adjustments. Treasurer Weightman asked if a budget provision would be included in the budget. Additionally, the Committee recommended tabling the IT security and IT five-year plan with expenditure forecast for the June Board meeting.

7. New Business: None.

8. Confirmation of Next Meeting: The next Finance Committee meeting was scheduled for Tuesday, May 14, 2019 at 3:30 p.m. A budget workshop is scheduled for Tuesday, May 14, 2019 at 4:30 p.m.

9. Trustee and/or Staff Comments/Future Agenda Items: Brad Anderson stated he opposes a benefit assessment increase.

10. Adjournment: The meeting was adjourned by Treasurer Weightman at 1:40 p.m.

SECTION

9



ITEMS OF GENERAL CONSENT

COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT

Board of Trustees Meeting Minutes

CALLED TO ORDER: 6:00 P.M. MARCH 12, 2019

LOCATION: 43420 Trader Place, Indio, CA 92201

TRUSTEES PRESENT:

PRESIDENT:	Doug Hassett	La Quinta
VICE PRESIDENT:	Franz De Klotz	County at Large

Coachella	Philip Bautista	Indian Wells	Clive Weightman
Palm Springs	Dr. Doug Kunz	Rancho Mirage	Isaiah Hagerman
Indio	Ben Guitron	Desert Hot Springs	Gary Gardner
Cathedral City	Sergio Espericueta	County at Large	Bito Larson

TRUSTEES ABSENT:

Palm Desert Doug Walker

STAFF AND COUNSEL PRESENT:

Jeremy Wittie, General Manager
Lena Wade, Legal Counsel, SBEMP
Grace Morales, Clerk of the Board
Edward Prendez, Information Technology Manager
Anita Jones, Human Resources Manager
Jill Oviatt, Public Information Manager
Jennifer Henke, Laboratory Manager
Wakoli Wekesa, Operations Manager
Mike Martinez, Field Supervisor

OTHER STAFF PRESENT: Teamsters and CSEA represented employees

- 1. Call to Order:** President Hassett called the meeting to order at 6:00pm.
- 2. Pledge of Allegiance:** Trustee Guitron led the Pledge of Allegiance.
- 3. Roll Call:** Roll call indicated ten (10) Trustees out of eleven (11) were present.
- 4. Motion to Excuse Absences**

On motion from Trustee Hagerman seconded by Trustee Guitron, and passed by unanimous vote, the Board of Trustees excused the absence of Trustee Walker.

Ayes: President Hassett, Trustees Hagerman, Guitron, Weightman, Espericueta, Kunz, Klotz, Larson, Gardner, and Bautista.

Noes: None.

Abstained: None.

Absent: Trustee Walker.

5. Confirmation of Agenda

Trustee Espericueta requested to pull item 11E as a separate item.

On motion from Trustee Hagerman seconded by Trustee Guitron, and passed by unanimous vote, the Board of Trustees approved the Agenda as amended.

Ayes: President Hassett, Trustees Hagerman, Guitron, Weightman, Espericueta, Kunz, Klotz, Larson, Gardner, and Bautista.

Noes: None.

Abstained: None.

Absent: Trustee Walker.

6. Closed Session: Public Employee Discipline/Dismissal/Release (Government Code § 54957) One (1) matter.

Returning from Closed Session, President Hassett announced there was no reportable action taken.

7. Public Comment: None. A letter regarding this Closed Session matter was received from Mr. Brad Anderson. It will be included in May's Board Packet.

8. Recognition: Vice President Hassett recognized Ramon Gonzalez for his 25 years of service to the District. He also presented him a certificate of appreciation.

9. Presentations:

- 2019 Surveillance Plan and Environmental Reports – *Jennifer A. Henke, M.S.*, Laboratory Manager gave a presentation regarding the National Pollutant Discharge Elimination System (NPDES) Annual Report, the EPA Pesticide Environmental Stewardship Program (PESP), and the California Environmental Quality Act (CEQA) Mitigated Negative Declaration Annual Compliance Report.
- General Manager's Report: General Manager *Jeremy Wittie* reported on the District's Strategic Implementation Plan item 1.1.4 – To establish Board Policy/direction on retaining, using or selling excess District-owned land. General Manager Wittie

informed Trustees on the status and recent findings in connection with the CV link easement or purchase.

10. Board Reports

A. President's Report: Vice President Hassett stated there was no action to be taken regarding the request from Mr. Brad Anderson to correct the minutes from the February 1, 2019 Executive Committee meeting.

B. Finance Committee: Treasurer Weightman reported that the Finance Committee met prior to the Board Meeting and that they had reviewed the check register and CalCard charges and had no concerns to report. The District's payroll and operating expenses are within reasonable levels. He also reported regarding the District's Reserve Study, the Thermal property, and pension and healthcare liabilities.

11. Items of General Consent:

- A. Minutes for February 12, 2019 Board Meeting
- B. Correspondence
- C. Approval of Expenditures for February 13-28, 2019, and March 1-12, 2019
- D. Informational Items:
 - District Travel
 - Board Business Status Log
 - National Pollutant Discharge Elimination System (NPDES) Annual Report – Jennifer A. Henke, M.S., Laboratory Manager
 - EPA Pesticide Environmental Stewardship Program (PESP) – Jennifer A. Henke, M.S., Laboratory Manager
 - California Environmental Quality Act (CEQA) Mitigated Negative Declaration Annual Compliance Report – Jennifer A. Henke, M.S., Laboratory ManagerStaff reports from:
 - AMCA Annual Conference, February 25-March 1, 2019, in Orlando, FL
 - MVCAC Annual Conference, February 3-6, 2019, in Burlingame Trustee Reports
- F. Approval for General Manager Jeremy Wittie, to sign a one year contract extension with Willdan Financial Services, to provide engineering support services for the District's benefit assessment.
- G. Approval to contract with Ceja Security International for security services for the District headquarters for one year in an amount not to exceed \$975.00 per month.
- H. Approval to renew annual maintenance contract with ESRI in an amount not to exceed \$19,000

- I. Approval of Resolution 2019-03 designating the week of April 21-27, 2019, as Mosquito Awareness Week.
- J. Approval to contract with Aerial Services for aerial reconnaissance services of the Coachella Valley's urban areas for neglected water features in an amount not to exceed \$18,500.

Item of General Consent, Item 11E: Department Reports

Trustee Sergio Espericueta pulled Item 11E because he had a question regarding the Operations Report (page 89) of the March Board Packet. The service requests total from Desert Hot Springs, compared to other cities such as La Quinta and Indio varied significantly in numbers and he was wondering the reason for this. Operations Manager, Wakoli Wekesa, Ph.D., explained these numbers only represent called-in service requests and inspections and treatments are not included. He further stated these service requests are frequently a reactive trigger from residents.

Public comment: Mr. Brad Anderson made a public comment regarding Item 11B - Correspondence included in the Board packet and his experiences when he submits service requests to the District.

On motion from Trustee Kunz, seconded from Trustee De Klotz, and passed by unanimous vote, the Board of Trustees approved the Items of General Consent.

Ayes: Trustees, Kunz, De Klotz, Hagerman, Guitron, Larson, Weightman, Gardner, Espericueta, Bautista and President Hassett.

Noes: None.

Abstained: None.

Absent: Trustee Walker.

12. Old Business:

- A. Discussion regarding the District's vacant land located adjacent to the District's main campus.

General Manager Jeremy Wittie shared the latest developments of the vacant land, roads, parking concerns, sidewalks, and potential liability exposure. He proposed the formation of an ad hoc Property Committee to assess the many items in connection with this matter. The following Trustees volunteered to be members of the Property Committee: Kunz, Hagerman, Guitron, Espericueta and De Klotz.

13. New Business:

- A. Approval to develop a new District website in an amount not to exceed \$15,000. Jill Oviatt, Public Information Manager, stated the need for a new website and answered several questions from Trustees.

On motion from Trustee Weightman seconded by Gardner, and passed by unanimous vote, the Board of Trustees approved Item 13A.

Public comment: Mr. Brad Anderson spoke in opposition of item 13A.

Ayes: Trustees Weightman, Gardner, Hagerman, Bautista, Espericueta, De Klotz, Hassett, De Klotz, Kunz and President Hassett.

Noes: None.

Abstained: None.

Absent: Trustee Walker.

14. Trustee Comments, Requests for Future Agenda Items, Travel and/or Staff Actions:

None.

15. Adjournment: The meeting was adjourned by Vice President Hassett at 7:49p.m.

Doug Hassett
President

Franz De Klotz
Vice President

March 12, 2019

Coachella Valley Mosquito and Vector Control District

Attn: Graciela Morales (Clerk of the Board)

43420 Trader Pl.

Indio, CA. 92201

(888) 343-9399 – www.cvmvcd.org

RE: letter requesting the correction of Information on the CVMVCD Board of Trustees Meeting minutes that was held on February 12, 2019. Please submit this letter into the Public record

Dear CVMVCD Clerk of the Board and Board of Trustees,

Please correct the written minutes for the February 12, 2019 CVMVCD Board of Trustees Meeting (6:PM scheduled start time). The written minutes now reflect my Name (Brad Anderson) the City of Residents (Rancho Mirage) and statements of: (left after submitting a public comment card).

I (Brad Anderson) arrived before the scheduled Board of Trustees Meeting, while all but a few Board Members and staff were partaking in the Public funded provided dinner foods. A letter was offered to the Clerk and accepted, this letter was in reference to that nights agenda Item of "Re-branding/ logo changes) to the now and current completely funded CVMVCD publicly known Image.

I (Brad Anderson) never attended that Board meeting and never submitted a public comment "card". Please correct these misstatements and reframe from such actions in the future. The actions stated above may be potential violations of the California "Brown Act". Please act to self report to the appropriate authorities concerning this matter.

Sincerely,

Brad Anderson

Rancho Mirage, CA.

March 12, 2019

Coachella Valley Mosquito and Vector Control District

Attn: Graciela Morales (Clerk of the Board)

43420 Trader Pl.

Indio, CA. 92201

(888) 343-9399 - www.cvmvcd.org

RE: letter requesting the correction of February 12, 2019 Finance Committee Meeting minutes

Please submit this letter into the Public Record

Dear CVMVCD Clerk of the Board, and Board Trustees,

Please correct the written minutes of February 12, 2019 for the Finance Committee Meeting of the Coachella Valley Mosquito and Vector Control District. The now current written minutes states that, I (Brad Anderson) was present at the meeting, My City of residences and the time that I arrived at that meeting.

I never sign a attendance log, or speakers request and I didn't add any comments during the meeting. And having the time of arrival recorded from a person from the Public that was their to observe this small sub-committee Governmental agency meeting. Could be viewed as a "Invasive" type of action, to potential discourage such attends in CVMVCD meetings in the future.

The action of adding my name/City/time to the CVMVCD document may be a violation of California "Brown Act". Please correct this and reframe from potential future violations, and please self report to the appropriate authorities concerning this matter.

Sincerely,

Brad Anderson

Rancho Mirage, CA.

March 12, 2019

Coachella Valley Mosquito and Vector Control District

Attn: CVMVCD Clerk of the Board

43420 Trader Pl.

Indio, CA. 92201

(888) 343-9399 – www.cvmvcd.org

RE: letter of statements with regards to agenda Item: 6 Closed session, A: Public Employee discipline/dismissal/release. Government code 54957 (1) matter for the March 12, 2019 (6:PM scheduled start time) CVMVCD Board of Trustees Meeting. Please Include this letter in to the Public record

Dear Coachella Valley Mosquito and Vector Control Board of Trustees,

Please be advised that any action taken on the scheduled closed session conference of tonight's CVMVCD Board of Trustees Meeting is held with the up most Integrity and follows the rule of law, as described by Governmental code: 54957.

Having had past Issues with the CVMVCD administrators Including "major" dishonest and conspired upon deceitful actions orchestrated by current CVMVCD Supervisors to remove people from district employment. Those actions have aloud current supervisory staff members to have family and friends be placed in district employment by the aid of administrative departments. And also advance the career employment opportunities to a "few" district staff that didn't have the burden of competing against other "External" potential candidates.

The Coachella Valley Mosquito and Vector Control District has allowed their supervisors to conspired against employee's that have voiced grave concerns about Work place Harassment and safety matters. And because of those actions, and potential others the remaining CVMVCD staff and Vendor's have very deep fearful concerns for their CVMVCD careers and community reputation that may be attacked by the current CVMVCD Supervisors/Administrator's.

The Coachella Valley Mosquito and Vector Control District General Manager appears to lack the qualifications to control his supervisory staff. And because of this Infliction has made attempts to perverse the District's misguided approach to it's "Status-quo". Please consider reviewing all of the available Information with regards to your closed session Item. And consider that the current CVMVCD

administrative departments didn't provide all the requested information or act in an ethical matter with regards to past employment issues.

Sincerely,

Brad Anderson
Rancho Mirage, CA.

GOVERNMENT CODE - GOV

TITLE 5. LOCAL AGENCIES [50001 - 57550] (Title 5 added by Stats. 1949, Ch. 81.)

DIVISION 2. CITIES, COUNTIES, AND OTHER AGENCIES [53000 - 55821] (Division 2 added by Stats. 1949, Ch. 81.)

PART 1. POWERS AND DUTIES COMMON TO CITIES, COUNTIES, AND OTHER AGENCIES [53000 - 54999.7] (Part 1 added by Stats. 1949, Ch. 81.)

CHAPTER 9. Meetings [54950 - 54963] (Chapter 9 added by Stats. 1953, Ch. 1588.)

54957. (a) This chapter shall not be construed to prevent the legislative body of a local agency from holding closed sessions with the Governor, Attorney General, district attorney, agency counsel, sheriff, or chief of police, or their respective deputies, or a security consultant or a security operations manager, on matters posing a threat to the security of public buildings, a threat to the security of essential public services, including water, drinking water, wastewater treatment, natural gas service, and electric service, or a threat to the public's right of access to public services or public facilities.

(b) (1) Subject to paragraph (2), this chapter shall not be construed to prevent the legislative body of a local agency from holding closed sessions during a regular or special meeting to consider the appointment, employment, evaluation of performance, discipline, or dismissal of a public employee or to hear complaints or charges brought against the employee by another person or employee unless the employee requests a public session.

(2) As a condition to holding a closed session on specific complaints or charges brought against an employee by another person or employee, the employee shall be given written notice of his or her right to have the complaints or charges heard in an open session rather than a closed session, which notice shall be delivered to the employee personally or by mail at least 24 hours before the time for holding the session. If notice is not given, any disciplinary or other action taken by the legislative body against the employee based on the specific complaints or charges in the closed session shall be null and void.

(3) The legislative body also may exclude from the public or closed meeting, during the examination of a witness, any or all other witnesses in the matter being investigated by the legislative body.

(4) For the purposes of this subdivision, the term "employee" shall include an officer or an independent contractor who functions as an officer or an employee but shall not include any elected official, member of a legislative body or other independent contractors. This subdivision shall not limit local officials' ability to hold closed session meetings pursuant to Sections 1461, 32106, and 32155 of the Health and Safety Code or Sections 37606 and 37624.3 of the Government Code. Closed sessions held pursuant to this subdivision shall not include discussion or action on proposed compensation except for a reduction of compensation that results from the imposition of discipline.

April 24, 2019

Coachella Valley Mosquito and Vector Control District

Attn: Clerk of the Board and Administrative staff

43420 Trader Pl.

Indio, CA. 92201

(888) 343-9399 - www.cvmvcd.org

RE: Public Comment letter for Non- Agenda Item. To be added into the Public Record for April 24, 2019
– CVMVCD Finance Committee Meeting (1:30PM)

Dear Board of Trustees (Finance Committee),

Please consider adding an agenda Item to the next Coachella Valley Mosquito and Vector Control District scheduled Board of Trustees Meeting. The Item to be address would be adjustments and or amendments to board minutes for the matter of miscalculations and the diverting of (around the sum of \$ 45,000) for chemical treatment expenses that were extremely Inflated, and allowed to remain unchanged and approved by the CVMVCD Board to Trustees for months. After being mention in Public Comment forums for discussion and or comment to the CVMVCD Finance committee and the whole CVMVCD Board of Trustees at past meetings by this Resident. And to this date No noticeable actions or modifications were reported back to this Resident that made the recommendation to the CVMVCD to Investigate this gross financial misappropriation of Public funds.

Please also consider being as transparent as possible with the scheduling of all the CVMVCD Public meetings. This would Include this meeting, where the CVMVCD website had written statements of "April – No Meetings" for all of the categories of Public scheduled CVMVCD meetings listed on the CVMVCD website earlier in this Month. And having agendas posted with miss-information on meeting dates and making "corrections" after the posted scheduled meeting date and time, in violation of the California State Brown Act. If the CVMVCD is planning on using this technique to discourage and or purposely fool Residents on fraudly misrepresenting CVMVCD Public meeting dates in the future. Their will be written communication to all Interested party's with followed up, to help discourage the CVMVCD lack of transparency and misleading statements to avoid Public scrutiny at CVMVCD meetings.

Sincerely,

Brad Anderson | Rancho Mirage, CA.

May 03, 2019 (Friday)

Coachella Valley Mosquito and Vector Control District

Attn: Clerk of the Board and Members of the Board of Trustees

43420 Trader Pl.

Indio, CA. 92201 - (888) 343-9399 – www.cvmvcd.org

RE: Written statement to reference Item 5. Closed Session of the CVMVCD Executive Committee Meeting held on the date of May 3, 2019 at the scheduled start time of 3:30 PM. Please include this letter into the Public Record for this Executive Committee Meeting.

Dear Members of the CVMVCD Board of Trustees,

It appears that the Executive Committee has the burden of reviewing Employee topics related to the operation and responsibilities of the Coachella Valley Mosquito and Vector Control District General Manager Mr. Jeremy Wittie. I request that this Executive Committee completely review all areas of concern of the Closed session: Public Employee Discipline/Dismissal/Release of Two (2) matters. And allowing the complete CVMVCD Board of Trustees to also review all of the topics that the Executive Committee was burdened to review. Employment matters should be directed always to the complete CVMVCD Board of Trustees when the matters exist to potential Termination of employment without sub committee involvement.

Having had false accusations made against myself by certain current staff members of the CVMVCD and being accused of "Working for member's of the Union – to get CVMVCD Supervisors in trouble" are just a snippet of the lesser existents that certain current CVMVCD staff members have aggressively fabricated.

Please take the time and effort to completely review and question the CVMVCD Management that has developed the charges to cause disruptions in the CVMVCD work force. And please review past employment issues that may reflect the same CVMVCD staff members that developed the issues of concern that may have had prior disciplines (that rise to similar levels) before having their now current employment position that was extended to them by other means than qualifications. Also consider reviewing past employee separations (Voluntarily leaving employment – having the CVMVCD paid a severance package) and termination from District employment related to potential "Race/Age/Medical" conditions.

Please consider any action that supports the continuing dismantling of CVMVCD employees on false accusations made against them to potentially increase favoritism for any reason to anyone or to make open employment opportunities available to family members and friends as Wrong!

Brad Anderson | Rancho Mirage, CA.

April 3, 2019

Cl M and V -

Thank you for always good service
with polite and caring employees
years; ^{ago} my husband and I called about
mosquitoes - within a short time someone
was here and found the source.
Since then I get such good service
on the fire ants problem - I really need
to compliment Clarence Freeman.

Donald 7 Jan 2

From: Michael Martinez
Sent: Friday 3/8/2019 12:08 PM
To: DistrictWideGroup
Subject: Bee SR

Hello All,

Today I received a compliment call from Mary in Cathedral City regarding her bee problem. She wanted thank Ramon G. *for being immensely helpful, informative and a courteous employee for taking the time about 15 minutes to conduct inspection.* She was thankful he showed her to look for entry points and what to ask private pest control regarding removing bees. Ramon job well done and thank you for representing the district so well.

Michael Martinez

From: Diana Reyes
Sent: Monday 3/11/2019 11:51 AM
To: Wakoli Wekesa
Subject: Technician Recognitions

Hello Wakoli,

I want to let you know of two very good recognitions I received today on two technicians (listed below) while I was making Survey Calls.

I had two residents point out during the survey that they were so happy with the service these technicians provided, *technicians gave excellent customer service and residents stated that they were well informed on fire ants, technicians were friendly and delightful and residents enjoyed their presence.*

Way to go Operations Team!! Keep up the good work!!!

- Erica Frost
- Jess Lucia

Diana L. Reyes

From: Michael Martinez

Sent: Monday 3/11/2019 3:06 PM

To: DistrictWideGroup

Subject: Compliment Call

Hello All,

Today I received a compliment call for Ramon G. from residents Bob and Debbie S. regarding their RIFA service request. Debbie wanted to give a good review and *thank him for being so knowledgeable, informative and for sharing lots of information beyond RIFA. She also said he was really nice, thorough and thankful for him sharing so much information plus explaining it.* Ramon great job! Thank you for representing the district so well.

Michael Martinez

From: Gregorio Alvarado

Sent: Friday 4/5/2019 4:04 PM

To: DistrictWideGroup

Subject: Compliment

Hello everyone,

Today we received a card from Nancy F., a resident in the city of Palm Springs regarding a Neglected pool. Nancy wanted to commend Linda Petersen actions. Nancy stated that *“Linda went above and beyond, being helpful in taking care of a neglected pool. It is not often you meet such a helpful and above and beyond employee today”* She also added that *“our district is very fortunate to have such an extraordinary technician like Linda”*. Linda amazing job!! District really appreciates your dedication.

Greg Alvarado

From: Gregorio Alvarado

Sent: Tuesday 4/9/2019 12:06 PM

To: DistrictWideGroup

Subject: Compliment call

Hello,

Today I received a call from Mr. West a resident in the city of Indio regarding a RIFA service request. Mr. West wanted to commend Rosendo Ruiz. *Mr. West stated that Rosendo did amazing work addressing RIFA infestation and answered all of his questions on a very professional matter. He also stated that our District should be very proud to have such exemplary employee.* Rosendo excellent work!! Way to represent the District.

Greg Alvarado

From: Anita Jones

Sent: Friday 4/12/2019 9:37 AM

To: DistrictWideGroup

Subject: Kudos!

The District received a lovely note from the Towne residence in Indian Wells thanking the District for the good service from the “*polite and caring*” employees. “*I really need to compliment Diane Greeman*”. Great job to the technicians who have serviced their property and to Diane Greeman for her great customer service!

Anita Jones

From: Diane Greeman

Sent: Tuesday 4/16/2019 11:12 AM

To: DistrictWideGroup

Joan W. from Indian Palms Country Club called to express her thanks and gratitude to two of our technicians: Jonathan H. and Marissa. *She said they were absolutely professional as well as personable*. They took the time to inspect the entire area and gathered samples - found Aedes and proceeded to treat. She said “*they are absolutely fabulous.*”

How fortunate I feel to work with such professionals – keep up the good work!

Diane Greeman

From: Michael Martinez

Sent: Tuesday 4/16/2019 12:30 PM

To: DistrictWideGroup

Subject: Website Compliment

Great Job Marisa and Team! Keep up the great work!

This is a compliment website entry for Marisa and crew who went out recently to do a Mosquito Inspection to resident’s home Rebecca D.

To Whom It May Concern, I just wanted to recognize Marisa and her colleagues for helping finding the breeding source for our local mosquitos. Over the past two weeks I have gotten close to 50+ bites despite personal repel.

Michael Martinez

From: Jill Oviatt

Sent: Thursday 4/25/2019 2:04 PM

To: DistrictWideGroup

Subject: Resident compliment of Erica Frost

Congratulations Erica on a job well done!

A resident sent an email today commending Erica for her professionalism and friendly manner while handling her service request.

“Erica is to be commended for her professional and cheerful customer service during our telephone conversation.”

Thank you Erica for representing the District so well - professionally and cheerfully.

Keep up the great work!

Jill

Checks Issued for the Period of:
April 10 - May 9, 2019

Check No	Payable To	Description	Check Amount	Total Amount
	Payroll Disbursement	April 19, 2019	186,097.47	
	Payroll Disbursement	May 3, 2019	183,842.40	
				369,939.87
Pre-Approved Expenditures:				
42185	CalPERS-HEALTHCARE ACCT	Healthcare Premiums - March, April, & May 2019	154,587.76	
42186	CalPERS-RETIREMENT ACCT	Retirement Contributions 2/22, 3/8, 3/22, 4/5	102,347.33	
42188	Principal Life Insurance Co.	Dental & Life Insurance Premiums - April & May 2019	21,832.96	
42189	Standard Insurance Company	LTD Insurance Premiums: April & May 2019	6,199.54	
42190	Vision Service Plan (CA)	Vision Insurance Premiums - April 2019	935.52	
42191	CalPERS-RETIREMENT ACCT	Retirement Contributions: 4/19, 5/3 2019 PP (Classic & PEPRA Plan)	50,974.06	
42192	ICMA Retirement Trust	Deferred Compensation Contributions: 4/19 & 5/3 2019PP	19,393.43	
42194	Vision Service Plan (CA)	Vision Insurance Premiums: May 2019	955.01	
				285,903.11
Cash - First Foundation Bank Checking				
Cash - First Foundation Bank Checking				
42184	CarQuest Auto Parts	Equipment App Parts & Supplies	1,549.73	
42193	Verizon Connect	IT Communications	2,237.93	
42195	Winner Chevrolet	Capital Equipment Replacement	84,435.93	
42196	Advance Imaging Systems	Contract Services	796.44	
42197	Aerial Services	Green Pool Surveillance	17,496.00	
42198	Airgas Safety Inc.	Operating Supplies	1,013.92	
42199	Albom & Associates LLC	Promotion and Education	176.80	
42200	Alpha Media LLC	Public Outreach Advertising	920.00	
42201	CarQuest Auto Parts	Vehicle Parts & Supplies	1,137.27	
42202	Cintas Corporation #3	Uniform Expense	2,418.76	
42203	Clairemont Equipment	Equipment Rental	129.25	
42204	CleanExcel	Contract Services	3,496.00	
42205	C&R Wellness Works	Employee Assistance Program	268.00	
42206	Daniel's Tire Service	Tire Services	1,321.32	
42207	Desert Air Conditioning	Repair & Maintenance	577.88	
42208	Desert Recycling Inc.	Repair & Maintenance	190.00	
42209	Eisenhower Occupational Health Serv	Physician Fees	595.00	
42210	El Informador del Valle	Public Outreach Advertising	1,760.00	
42211	Employee Relations Inc.	Recruitment/Advertising	387.80	
42212	Entravision Communications Corporation	Public Outreach Advertising	1,405.00	
42213	Eurofins Agrosiences Services Inc.	Maintenance & Calibration	255.00	
42214	Fedak & Brown, LLP	Audit Services	850.00	
42215	Fiesta Ford-Lincoln-Mercury	Vehicle Parts & Supplies	27.73	
42216	Erica Frost	Tuition Reimbursement	297.82	
42217	Gulf California Broadcast Company	Public Outreach Advertising	4,365.00	
42218	Jernigan's Sporting Goods, Inc.	Safety Expense	1,008.97	
42219	Kwik Kleen Of The Desert	Offsite Vehicle Maintenance & Repair	208.00	
42220	Liebert Cassidy Whitmore	Attorney Fees	400.00	
42221	Marlin Business Bank	Contract Services	750.94	
42222	Molina, Antonio	Tuition Reimbursement	1,037.96	
42223	Moreno, Crystal	Tuition Reimbursement	951.00	
42224	NAPA Auto & Truck Parts	Vehicle Parts and Supplies	239.76	
42225	National Cine Media, LLC.	Public Outreach Advertising	4,520.00	
42226	Palm Springs Air Conditioning & Refrigeration, Inc.	Capital Outlay - Ducting for Dehumidifiers	22,500.00	
42227	Pitney Bowes Purchase Power	Postage	54.77	
42228	Praxair Distribution, Inc.	Equipment Parts & Supplies	48.89	
42229	Puretec Industrial Water	Equipment Parts & Supplies	286.18	
42230	RM Broadcasting LLC	Public Outreach Advertising	750.00	
42231	Salton Sea Air Service	Aerial Application	11,350.00	
42232	SIGMA-ALDRICH	Internal Mosquito PCR	162.43	
42233	Slovak Baron Empey Murphey & Pinkney LLP	Attorney Fees	4,000.00	
42234	SoCo Group Inc., The	Motor Fuel & Oils	7,269.55	
42235	South Coast AQMD	Contract Services	132.98	
42236	TCI Thermal Combustion Innovators, Inc.	Operating Supplies	323.81	
42237	UC Regents	Maintenance Contracts	600.00	
42238	Valley Lock & Safe	Operating Supplies	11.02	
42239	Waterlogic Americas LLC	Employee Support	213.15	
42240	Waxie Sanitary Supply	Maintenance Supplies	106.73	
42241	U.S. Bank	CalCard - 4/22/19 Statement	45,299.45	
Cash - First Foundation Bank Check Run Total to be Approved				159,779.98
Total Expenditures: April 10 - May 9, 2019				815,622.96

Coachella Valley Mosquito and Vector Control District
FINANCES AT A GLANCE
ALL FUNDS COMBINED
For the Month Ended April 30, 2019

	Beginning of the Month	Change During the Month	End of the Month
INVESTMENTS	11,732,279	(593,006)	11,139,273
CASH	<u>(25,549)</u>	<u>(17,327)</u>	<u>(42,876)</u>
INVESTMENTS & CASH	11,706,729	(610,333)	11,096,397
CURRENT ASSETS	1,784,036	(29,151)	1,754,885
FIXED ASSETS	10,725,824	-	10,725,824
OTHER ASSETS	5,111,294	-	5,111,294
TOTAL ASSETS	<u><u>29,327,884</u></u>	<u><u>(639,484)</u></u>	<u><u>28,688,400</u></u>
TOTAL LIABILITIES	5,628,373	105,591	5,733,963
TOTAL DISTRICT EQUITY	23,699,511	(745,075)	22,954,436
TOTAL LIABILITIES & EQUITY	<u><u>29,327,884</u></u>	<u><u>(639,484)</u></u>	<u><u>28,688,400</u></u>
RECEIPTS		\$ 416,329	
CASH DISBURSEMENTS			
Payroll	\$ 365,274		
General Admin	\$ 661,388		
Total Cash Disbursements		\$ (1,026,662)	
NON-CASH ENTRIES:		\$ (29,151)	
Accrual Modifications -			
Changes in A/P, A/R & Pre-paid insurance			
Change during Month - Excess of Cash over Receipts & Non-Cash Adjustments		<u><u>\$ (639,484)</u></u>	

CVMVCD

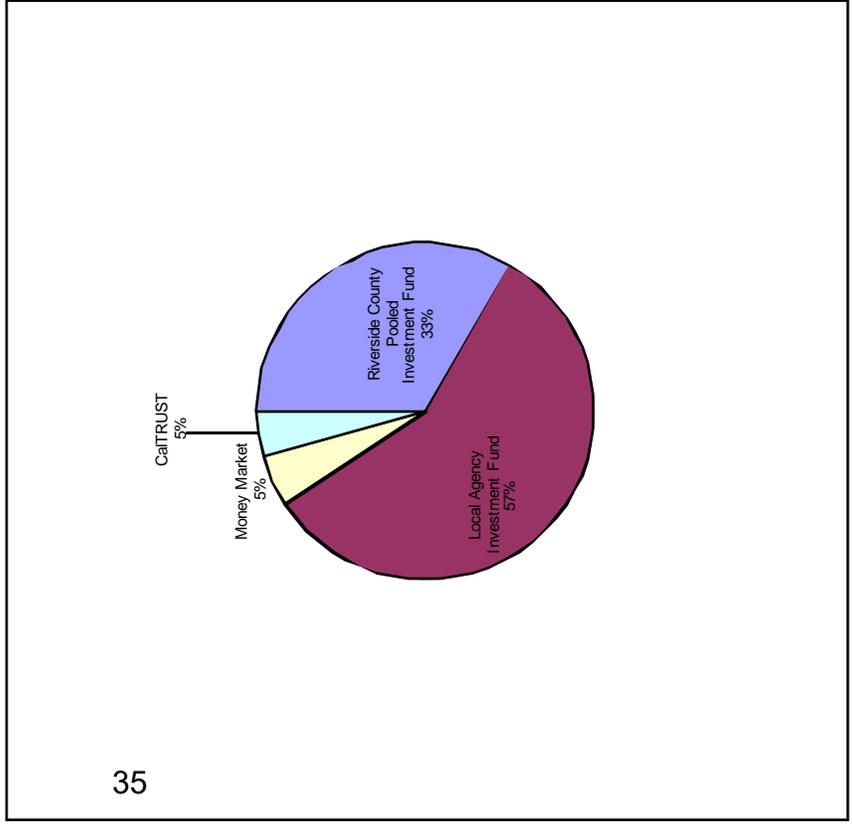
Cash Journal - deposits
From 4/1/2019 Through 4/30/2019

Effective ...	Payee/Recipient Name	Transaction Description	Deposits
4/2/2019	Riverside County	April Receipts - Current Secured	366,170.33
4/11/2019	Riverside County	April Receipts - Pass Through Increment	10,254.73
4/15/2019	Local Agency Investment Fund	April Receipts - LAIF Interest	39,809.39
4/30/2019	First Foundation Bank	April Receipts - Bank Interest	94.74
Report Total			416,329.19

COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT
INVESTMENT FUND BALANCES AS OF APRIL 30, 2019

INSTITUTION	IDENTIFICATION	Issue Date	Maturity Date	YIELD	General Fund	Thermal Capital Fund	Capital Equipment Replacement Fund	Capital Facility Replacement Fund	BALANCE
	Investment Fund Balance				7,191,797	484,712	1,713,425	1,749,339	\$ 11,139,273
LAIIF	Common Investments			2.45%	4,123,052	277,885	982,305	1,002,895	\$ 6,386,136
Riverside County	Funds 51105 & 51115			2.35%	2,395,924	161,480	570,822	582,787	\$ 3,711,012
CalTRUST	Medium Term Fund			1.49%	317,393	21,392	75,618	77,203	\$ 491,606
First Foundation	Market Rate			0.25%	355,429	23,955	84,680	86,455	\$ 550,519
	Total Investments				7,191,797	484,712	1,713,425	1,749,339	\$ 11,139,273

PORTFOLIO COMPOSITION AS OF APRIL 30, 2019
WEIGHTED YIELD 2.26%



In compliance with the California Code Section 53646; the Finance Administrator of the Coachella Valley Mosquito and Vector Control District hereby certifies that sufficient liquidity and anticipated revenue are available to meet the District's budgeted expenditure requirements for the next six months.

Investments in the report meet the requirements of the Coachella Valley Mosquito and Vector Control District's adopted investment policy

Respectfully submitted

NOTED AND APPROVED

CVMVCD
Statement of Revenue and Expenditures
From 4/1/2019 Through 4/30/2019

	Budget -		YTD Budget		YTD Actual		YTD Budget		Current Period		Current Period		Current Period		Percent Total	
	Original		YTD Budget	YTD Actual	Variance	Budget	Actual	Variance	Budget	Actual	Variance	Period	Actual	Variance	Total Budget	Remaining - Original
Revenues																
4000 Property Tax - Current Secured	3,733,045		2,282,946	2,353,244	70,298	351,169	366,170	15,001		(1,379,801)						-37%
4010 Property Tax - Curr. Supplmntl	72,202		31,570	18,068	(13,502)	0	0	0		(54,134)						-75%
4020 Property Tax - Curr. Unsecured	161,854		145,599	156,827	11,228	0	0	0		(5,027)						-3%
4030 Homeowners Tax Relief	42,732		35,753	20,009	(15,744)	14,722	0	(14,722)		(22,723)						-53%
4070 Property Tax - Prior Supp.	28,660		23,225	0	(23,225)	0	0	0		(28,660)						-100%
4080 Property Tax - Prior Unsecured	9,902		0	0	0	0	0	0		(9,902)						-100%
4090 Redevelopment Pass-Thru	4,275,025		2,099,329	2,243,102	143,772	0	10,255	10,255		(2,031,923)						-48%
4520 Interest Income - LAIF/GDs	100,000		75,102	156,068	80,966	101	39,904	39,803		56,068						56%
4530 Other Miscellaneous Receipts	63,000		52,500	28,462	(24,038)	5,250	0	(5,250)		(34,538)						-55%
4551 Benefit Assessment Income	1,996,366		1,078,038	1,064,374	(13,664)	0	0	0		(931,992)						-47%
Total Revenues	10,482,786		5,824,062	6,040,154	216,091	371,242	416,329	45,087		(4,442,632)						-42%

Expenditures

Payroll Expenses																
5101 Payroll - FT	4,686,031		3,905,030	3,787,877	117,153	390,503	524,019	(133,516)		898,154						19%
5102 Payroll Seasonal	208,460		162,134	153,142	8,992	23,162	16,059	7,103		55,318						27%
5103 Temporary Services	6,900		6,900	6,900	0	0	0	0		0						0%
5105 Payroll - Overtime Expense	41,700		34,750	8,153	26,597	3,475	1,131	2,344		33,547						80%
5150 CalPERS State Retirement	566,460		494,148	436,699	57,449	36,158	74,629	(38,471)		129,761						23%
5155 Social Security Expense	302,827		252,360	245,370	6,990	25,236	34,551	(9,315)		57,457						19%
5165 Medicare Expense	70,821		59,020	58,708	312	5,902	8,081	(2,179)		12,113						17%
5170 Cafeteria Plan	1,031,051		859,210	974,867	(115,657)	85,921	181,986	(96,065)		56,184						5%
5172 Retiree Healthcare	342,420		285,350	77,663	207,687	28,535	5,090	23,445		264,757						77%
5180 Deferred Compensation	101,030		84,190	65,108	19,082	8,419	20,129	(11,710)		35,922						36%
5195 Unemployment Insurance	36,405		30,340	32,839	(2,499)	3,034	1,472	1,562		3,566						10%
Total Payroll Expenses	7,394,105		6,173,432	5,847,326	326,106	610,345	867,147	(256,802)		1,546,779						21%

CVMVCD
Statement of Revenue and Expenditures
From 4/1/2019 Through 4/30/2019

	Budget -		YTD Budget		YTD Actual		YTD Budget		Current Period		Current Period		Current Period		Percent Total	
	Original	YTD Budget	YTD Budget	YTD Actual	YTD Budget	YTD Actual	Variance	Budget	Budget	Variance	Actual	Variance	Remaining	Remaining	Original	Budget
Administrative Expenses																
5250 Tuition Reimbursement	15,000	12,500	9,008	9,008	3,492	1,250	1,250	0	1,250	0	0	1,250	5,992	5,992	40%	40%
5300 Employee Incentive	6,000	5,000	3,666	3,666	1,334	500	500	0	500	0	0	500	2,334	2,334	39%	39%
5301 Employee Support	4,000	3,332	2,312	2,312	1,020	334	334	0	334	213	213	121	1,688	1,688	42%	42%
5302 Wellness	600	0	0	0	0	0	0	0	0	0	0	0	600	600	100%	100%
5305 Employee Assistance Program	3,200	2,668	2,604	2,604	64	266	266	0	266	244	244	22	596	596	19%	19%
6000 Property & Liability Insurance	79,895	56,580	92,795	92,795	(36,215)	11,658	11,658	0	11,658	11,203	11,203	455	(12,900)	(12,900)	-16%	-16%
6001 Workers' Compensation Insurance	85,730	49,780	86,956	86,956	(37,176)	17,978	17,978	0	17,978	17,948	17,948	30	(1,226)	(1,226)	-1%	-1%
6050 Dues & Memberships	25,480	24,662	25,085	25,085	(422)	407	407	0	407	0	0	407	396	396	2%	2%
6060 Reproduction & Printing	21,750	18,130	4,887	4,887	13,243	1,813	1,813	0	1,813	0	0	1,813	16,863	16,863	78%	78%
6065 Recruitment/Advertising	6,500	5,420	6,600	6,600	(1,180)	542	542	0	542	501	501	41	(100)	(100)	-2%	-2%
6070 Office Supplies	14,980	12,480	14,941	14,941	(2,461)	1,248	1,248	0	1,248	30	30	1,218	39	39	0%	0%
6075 Postage	8,500	7,080	2,457	2,457	4,623	708	708	0	708	516	516	192	6,043	6,043	71%	71%
6080 Computer & Network Systems	5,000	4,170	3,984	3,984	186	417	417	0	417	177	177	240	1,016	1,016	20%	20%
6085 Bank Service Charges	200	170	27	27	143	17	17	0	17	0	0	17	173	173	86%	86%
6090 Local Agency Formation Comm.	1,200	1,200	1,129	1,129	71	0	0	0	0	0	0	0	71	71	6%	6%
6095 Professional Fees	53,000	44,170	33,749	33,749	10,421	4,417	4,417	0	4,417	3,920	3,920	497	19,251	19,251	36%	36%
6100 Attorney Fees	90,000	75,000	91,988	91,988	(16,988)	7,500	7,500	0	7,500	5,165	5,165	2,335	(1,988)	(1,988)	-2%	-2%
6105 Legal Services / Filing Fees	1,000	0	0	0	0	0	0	0	0	0	0	0	1,000	1,000	100%	100%
6106 HR Risk Management	4,500	4,500	4,500	4,500	0	0	0	0	0	0	0	0	0	0	0%	0%
6110 Conference Expense	48,800	48,800	29,193	29,193	19,607	0	0	0	0	423	423	(423)	19,607	19,607	40%	40%
6115 In-Lieu	13,200	11,000	11,400	11,400	(400)	1,100	1,100	0	1,100	2,200	2,200	(1,100)	1,800	1,800	14%	14%
6120 Trustee Support	4,000	3,332	4,108	4,108	(776)	334	334	0	334	175	175	159	(108)	(108)	-3%	-3%
6200 Meetings Expense	2,000	1,668	1,689	1,689	(21)	166	166	0	166	51	51	115	311	311	16%	16%
6210 Promotion & Education	26,000	17,000	4,166	4,166	12,834	5,000	5,000	0	5,000	0	0	5,000	21,834	21,834	84%	84%
6220 Public Outreach Advertising	46,000	28,000	0	0	28,000	8,000	8,000	0	8,000	0	0	8,000	46,000	46,000	100%	100%
6500 Benefit Assessment Expenses	96,000	96,000	91,146	91,146	4,855	0	0	0	0	0	0	0	4,855	4,855	5%	5%
Total Administrative Expenses	662,535	532,642	528,390	528,390	4,254	63,655	63,655	0	63,655	42,766	42,766	20,889	134,147	134,147	20%	20%
Utilities																
6400 Utilities	105,000	87,500	72,076	72,076	15,424	8,750	8,750	0	8,750	0	0	8,750	32,924	32,924	31%	31%
6410 Telecommunications	11,000	9,168	15,270	15,270	(6,102)	916	916	0	916	0	0	916	(4,270)	(4,270)	-39%	-39%
Total Utilities	116,000	96,668	87,346	87,346	9,322	9,666	9,666	0	9,666	0	0	9,666	28,654	28,654	25%	25%

CVMVCD
Statement of Revenue and Expenditures
From 4/1/2019 Through 4/30/2019

	Budget -		YTD Budget		YTD Actual		YTD Budget		Current Period		Current Period		Current Period		Percent Total Budget		
	Original	YTD Budget	YTD Budget	YTD Actual	YTD Budget	YTD Actual	Variance	Budget	Variance	Budget	Variance	Actual	Variance	Remaining	Original	Remaining	Original
Operating																	
7000 Uniform Expense	26,650	22,210		25,019	(2,809)	2,221			2,221		3,362	(1,141)	1,631		6%		
7050 Safety Expense	23,350	19,460		14,709	4,751	1,946			1,946		2,460	(514)	8,641		37%		
7100 Physician Fees	4,000	3,330		4,785	(1,455)	333			333		1,730	(1,397)	(785)		-20%		
7150 IT Communications	40,000	33,330		24,109	9,221	3,333			3,333		0	3,333	15,891		40%		
7200 Household Supplies	4,000	3,330		2,181	1,149	333			333		142	191	1,819		45%		
7300 Repair & Maintenance	42,000	35,000		21,395	13,605	3,500			3,500		89	3,411	20,605		49%		
7310 Maintenance & Calibration	6,000	5,000		4,571	429	500			500		0	500	1,429		24%		
7350 Permits, Licenses & Fees	10,850	9,040		3,807	5,233	904			904		0	904	7,043		65%		
7400 Vehicle Parts & Supplies	32,000	26,670		22,484	4,186	2,667			2,667		1,062	1,605	9,516		30%		
7420 Offsite Vehicle Maint & Repair	12,500	10,420		11,141	(721)	1,042			1,042		0	1,042	1,359		11%		
7450 Equipment Parts & Supplies	16,500	13,750		11,712	2,038	1,375			1,375		539	836	4,788		29%		
7500 Small Tools Furniture & Equip	1,700	1,420		1,243	177	142			142		0	142	457		27%		
7550 Lab Supplies & Expense	30,500	25,420		19,423	5,997	2,542			2,542		1,372	1,170	11,077		36%		
7570 Aerial Pool Surveillance	25,000	0		0	0	0			0		0	0	25,000		100%		
7575 Surveillance	45,500	37,920		30,765	7,155	3,792			3,792		162	3,630	14,735		32%		
7600 Staff Training	72,000	60,455		51,733	8,722	5,363			5,363		486	4,877	20,267		28%		
7650 Equipment Rental	1,000	830		540	290	83			83		0	83	460		46%		
7675 Contract Services	131,232	109,360		101,276	8,084	10,936			10,936		9,105	1,831	29,956		23%		
7700 Motor Fuel & Oils	73,200	61,000		59,279	1,721	6,100			6,100		6,918	(818)	13,921		19%		
7750 Field Supplies	9,400	7,830		6,308	1,522	783			783		730	53	3,092		33%		
7800 Control Products	785,000	654,160		520,180	133,980	65,416			65,416		33,121	32,295	264,820		34%		
7850 Aerial Applications	114,500	76,332		62,325	14,007	0			0		5,325	(5,325)	52,175		46%		
8415 Capital Outlay	20,650	17,210		9,669	7,541	1,721			1,721		705	1,016	10,981		53%		
8510 Research Projects	150,000	150,000		85,917	64,083	0			0		0	0	64,083		43%		
9000 Contingency Expense	150,000	125,000		0	125,000	12,500			12,500		0	12,500	150,000		100%		
Total Operating	1,827,532	1,508,477		1,094,571	413,906	127,532			127,532		67,308	60,224	732,961		40%		
Contribution to Capital Reserves																	
8900 Transfer to other funds	482,614	402,180		402,178	2	40,218			40,218		40,218	0	80,436		17%		
Total Contribution to Capital Reserves	482,614	402,180		402,178	2	40,218			40,218		40,218	0	80,436		17%		
Total Expenditures	10,482,786	8,713,399		7,959,809	753,590	851,416			851,416		1,017,444	(166,028)	2,522,977		24%		
Net revenue over/(under) expenditures	0	(2,889,337)		(1,919,656)	969,681	(480,174)			(601,114)								

CVMVCD
Balance Sheet
As of 4/30/2019

		Current Year
Assets		
Cash and Investments		
1000	Cash - Investments	11,139,273.07
1016	Petty Cash	500.00
1017	Petty Cash Checking	1,500.00
1025	First Foundation - General	(107,151.46)
1026	First Foundation - Payroll	62,275.08
	Total Cash and Investments	11,096,396.69
Current Assets		
1050	Accounts Receivable	24,614.83
1085	Inventory	632,698.98
1168	Prepaid Insurance	58,302.37
1169	Deposits	1,039,269.00
	Total Current Assets	1,754,885.18
Fixed Assets		
1300	Equipment/Vehicles	1,870,815.56
1310	Computer Equipment	417,110.72
1311	GIS Computer Systems	301,597.91
1320	Office Furniture & Equipment	1,218,124.91
1330	Land	417,873.30
1335	Oleander Building	5,665,861.83
1336	Signage	23,651.39
1340	Structures & Improvements	3,026,125.52
1341	Bio Control Building	6,963,767.95
1342	Bio Control Equip/Furn	32,034.05
1399	Accumulated Depreciation	(9,211,139.61)
	Total Fixed Assets	10,725,823.53
Other Assets		
1520	Resources to Be Provided	3,514,102.32
1525	Deferred Outflows of Resources	1,284,772.00
1530	Deferred Outflows of Resources - OPEB	312,420.00
1900	Due to/from	0.10
	Total Other Assets	5,111,294.42
	Total Assets	28,688,399.82
Liabilities		
Short-term Liabilities		
Accounts Payable		
2015	Credit Card Payable	16,188.33
2020	Accounts Payable	6,537.98
2030	Accrued Payroll	118,962.53
2040	Payroll Taxes Payable	52,986.81
2175	Claims/Judgements Payable	(94.20)
2185	Employee Dues	5,132.10

CVMVCD
Balance Sheet
As of 4/30/2019

		Current Year
	Total Accounts Payable	199,713.55
	Total Short-term Liabilities	199,713.55
	Long-term Liabilities	
2100	Pollution Remediation Obligation	2,100,000.00
2200	Net Pension Liability	1,763,285.00
2210	Deferred Inflows of Resources	131,145.00
2300	Net OPEB Liability	877,253.36
2500	Compensated Absences Payable	662,566.53
	Total Long-term Liabilities	5,534,249.89
	Total Liabilities	5,733,963.44
	Fund Balance	
	Non Spendable Fund Balance	
3920	Investment in Fixed Assets	10,698,793.35
3945	Reserve for Prepaids & Deposit	1,373,799.43
3960	Reserve for Inventory	532,128.63
	Total Non Spendable Fund Balance	12,604,721.41
	Committed Fund Balance	
3965	Public Health Emergency	4,103,640.00
	Total Committed Fund Balance	4,103,640.00
	Assigned Fund Balance	
3910	Reserve for Operations	4,500,000.00
3925	Reserve for Future Healthcare Liabilities	877,253.00
3955	Thermal Remediation Fund	463,724.00
3970	Reserve for IT Replacement	277,991.00
3971	Reserve for Vehicle Replacement	344,376.00
	Total Assigned Fund Balance	6,463,344.00
	Unassigned Fund Balance	
3900	Fund Equity	1,513,538.30
3999	P&L Summary	(499.17)
	Total Unassigned Fund Balance	1,513,039.13
	Current YTD Net Income	(1,730,308.16)
	Total Current YTD Net Income	(1,730,308.16)
	Total Fund Balance	22,954,436.38
	Total Liabilities and Net Assets	28,688,399.82

FINANCE

The financial reports show the balance sheet, receipts, and the revenue and expenditure reports for the month ending April 30, 2019. The revenue and expenditure report shows that the operating budget expenditure for July 1, 2018 to April 30, 2019 is \$7,949,811; total revenue is \$6,040,154 resulting in excess revenue over (under) expenditure for the year to April 30, 2019 of (\$1,909,657).

THREE YEAR FINANCIALS

	4/30/2019	4/30/2018	4/30/2017
Total Revenue	6,040,154	5,573,343	4,961,159
Expenses			
Payroll	5,847,326	5,575,620	5,182,177
Administrative Expense	528,390	467,989	475,808
Utility	87,346	78,849	93,904
Operating Expense	1,084,571	972,878	1,426,601
Contribution to Capital Reserves	402,178		
Total Expenses	7,949,811	7,095,335	7,178,490
Profit (Loss)	(1,909,657)	(1,521,992)	(2,217,331)

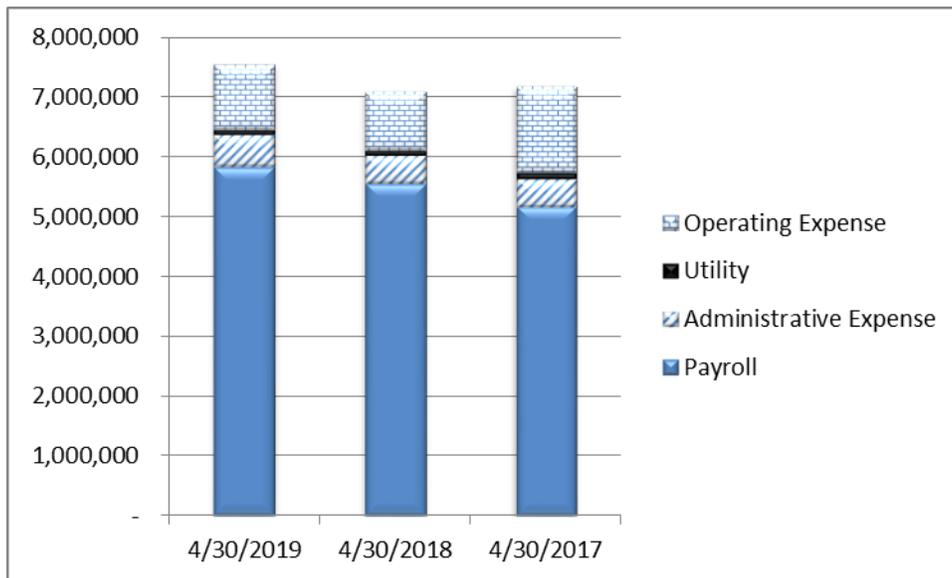


Figure 1 Three Year Expenditure

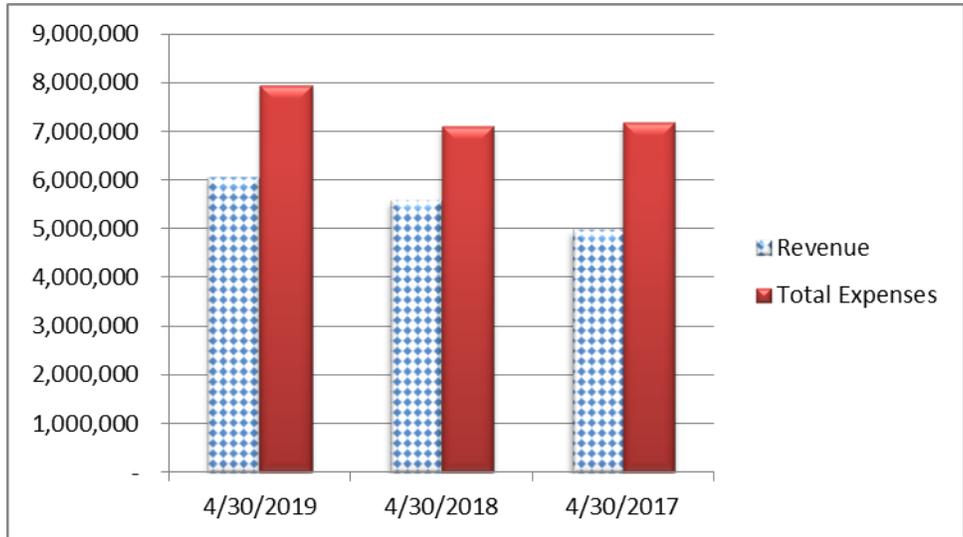


Figure 2 Three Year Revenue & Expenditure

THREE YEAR CASH BALANCE

CASH BALANCES	4/30/2019	4/30/2018	4/30/2017
Investment Balance	11,139,273	10,480,275	10,283,992
Checking Accounting	(107,151)	11,967	(88,280)
Payroll Account	62,275	88,186	262,454
Petty Cash	2,000	2,000	2,000
TOTAL CASH BALANCES	11,096,397	10,582,428	10,460,166

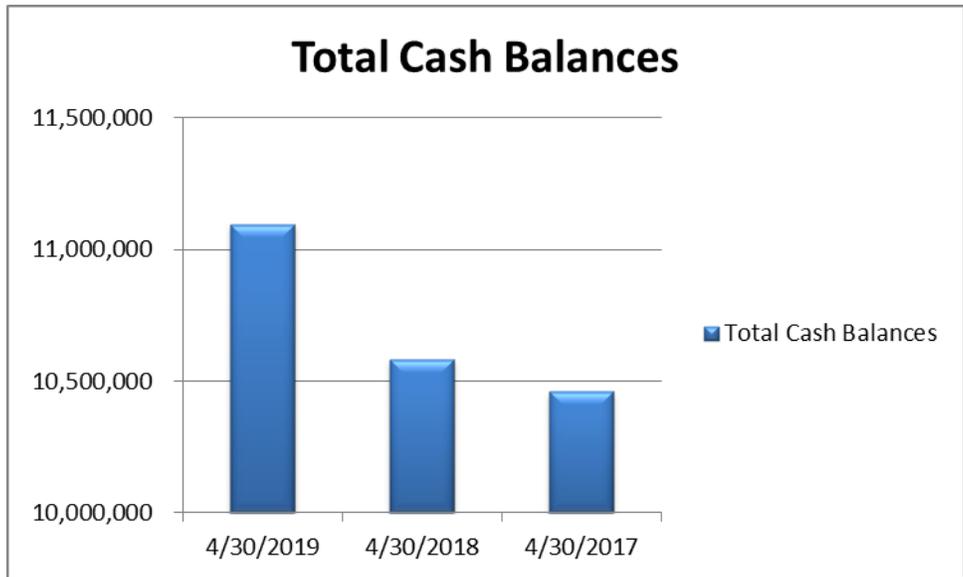


Figure 3 Cash Balances

DISTRICT INVESTMENT PORTFOLIO 4/30/2019

The District's investment fund balance for the period ending April 30, 2019 is \$11,139,273. The portfolio composition is shown in the pie chart. Local Agency Investment Fund (LAIF)

accounts for 57% of the District’s investments; the Riverside County Pooled Investment Fund is 33% of the total. The LAIF yield for the end of December was 2.45% and the Riverside County Pooled Investment Fund was 2.35%; this gives an overall weighted yield for District investments of 2.26%.

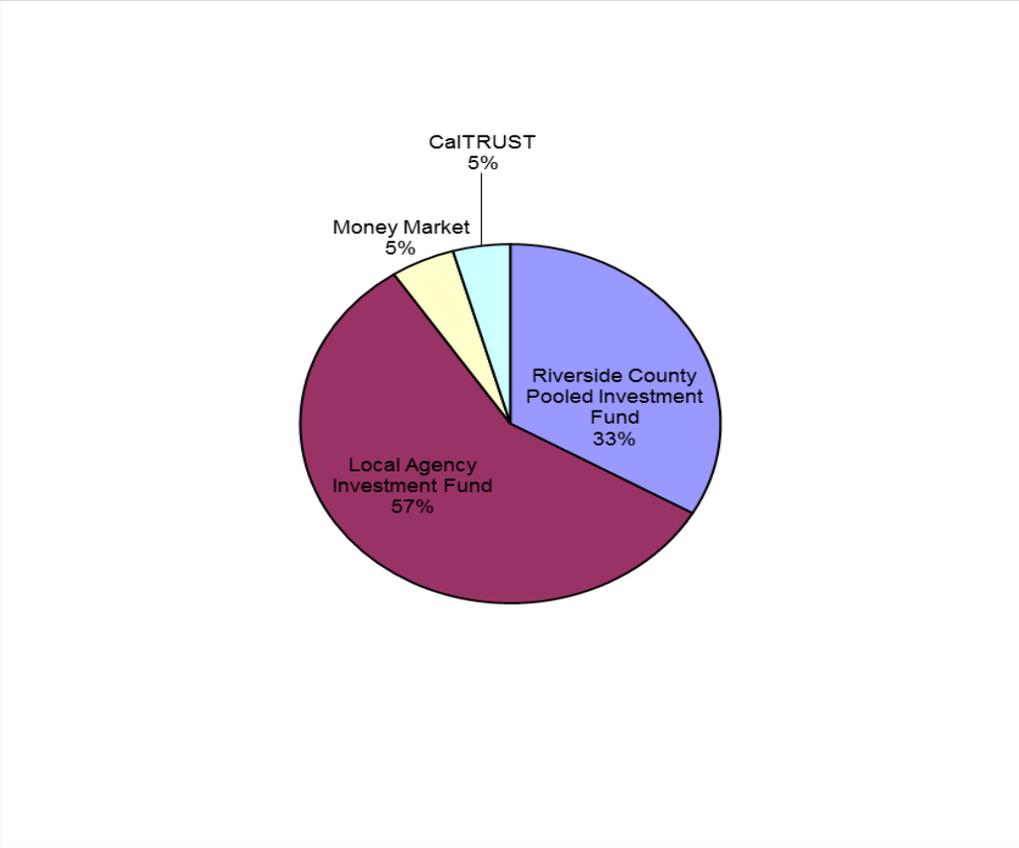


Figure 4 Investment Portfolio 4-30-19

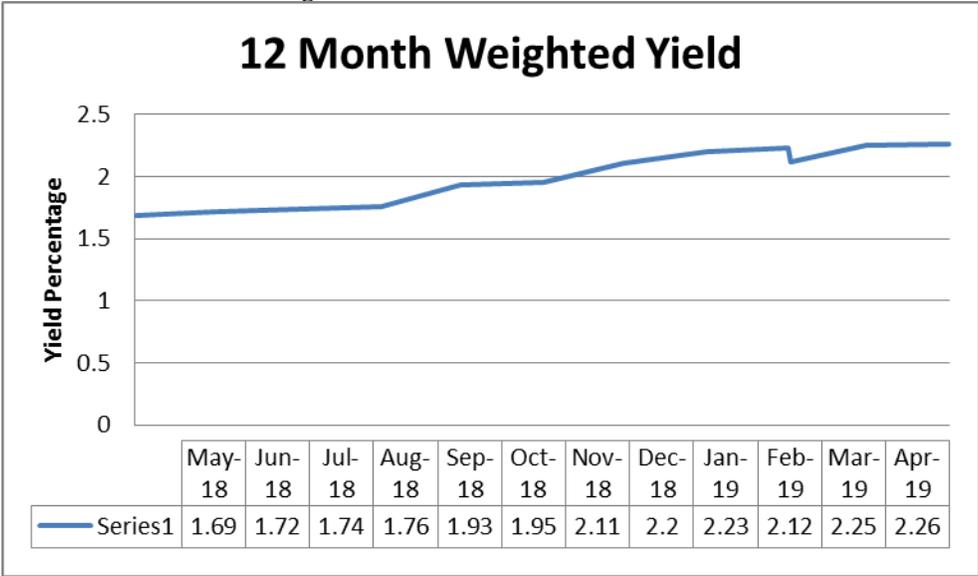


Figure 5 District Investments Weighted Yield

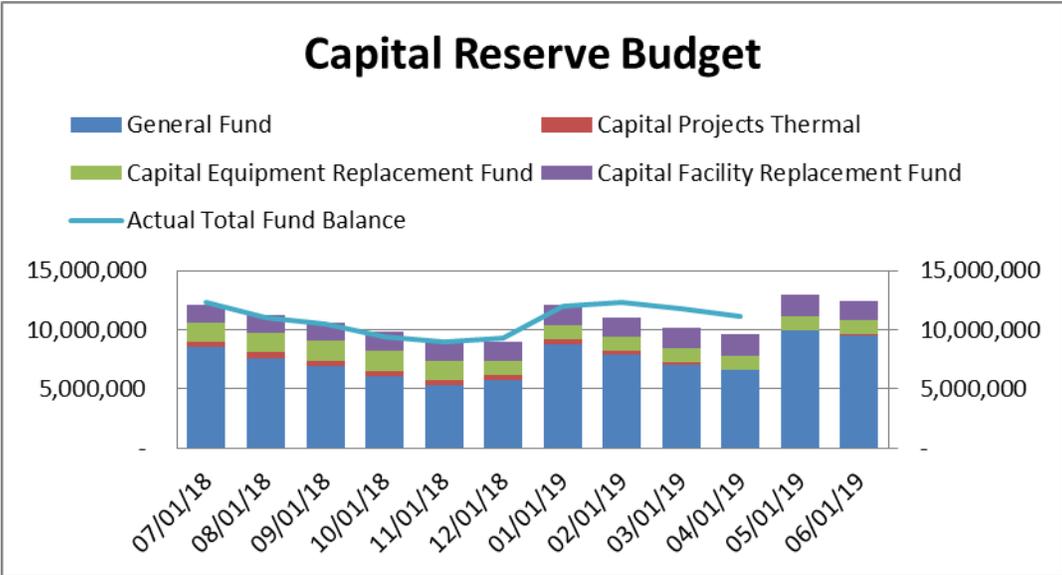


Figure 6 Capital Reserve Budget

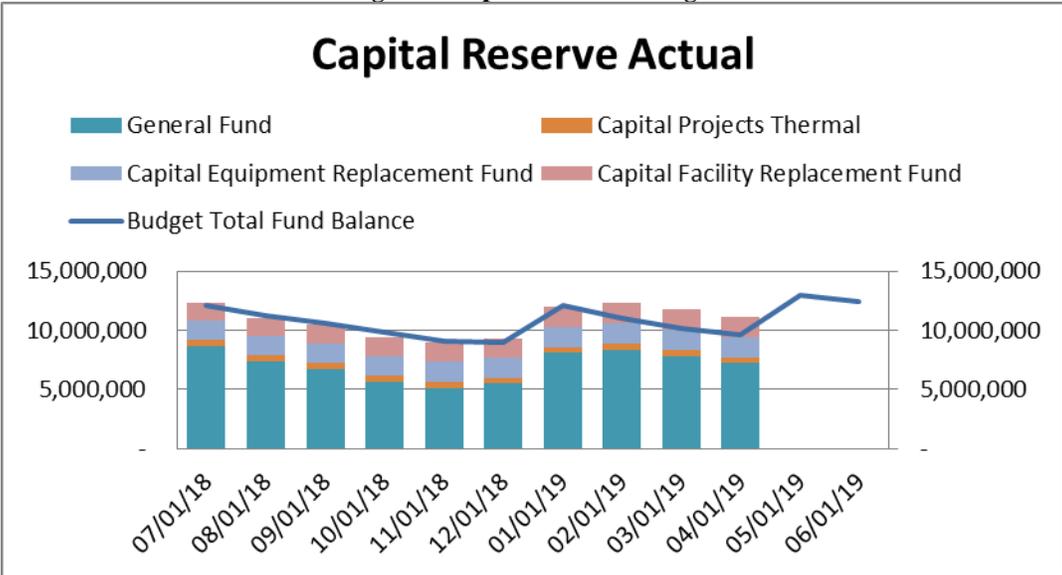


Figure 7 Capital Reserve Actual

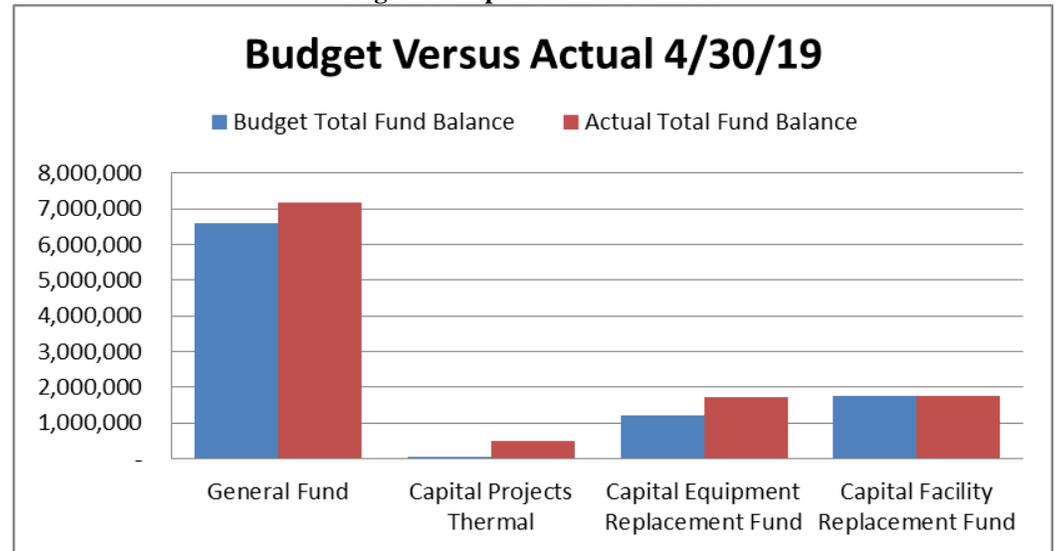
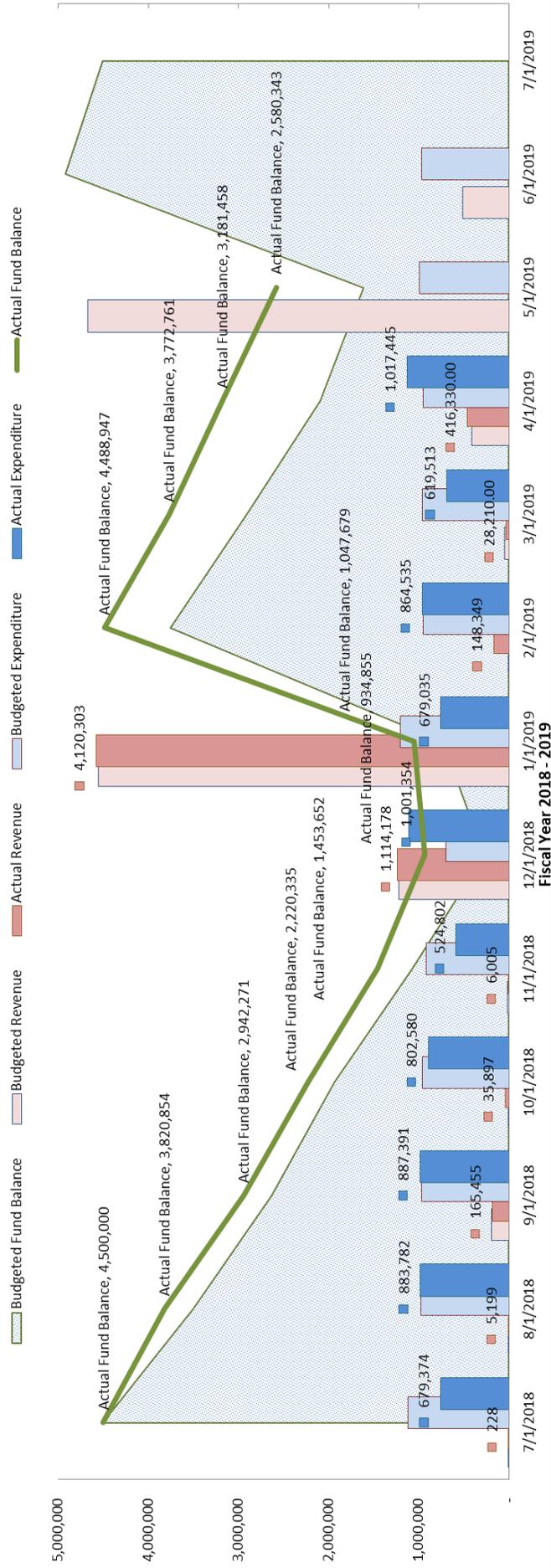


Figure 8 Capital Reserve 4/30/2019

General Fund Operational Cash Flow

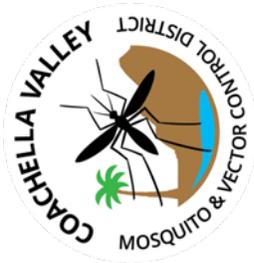


The **General Fund Operational Cash Flow** graph outlines the District's working capital for the fiscal year July 1 2018 to June 30 2019. The beginning fund and ending fund balance is \$4.5 million. Expenditure is approximately divided by 12 equal months, with some differences accounting for the seasonality of the program for example control products and seasonal employment which are greater in the mosquito breeding season. The budget also accounts for prepayments. The revenue follows a different pattern, Riverside County distribute the property tax revenue in January and May with advancements in December and April.

The *shaded area* represents the **Budgeted Fund Balance** which has a formula of (beginning) **Fund Balance plus Revenue minus Expenditure**. The *green line* represents the **Actual Fund Balance** and is graphed against the *shaded area Budgeted Fund Balance*.

The graph shows for May 1 the \$4.5 million **Fund Balance** plus total Revenue for July 1 to April 30, 2019 of \$6 million minus total Expenditure of \$7.9million is \$2,580,343. For planning purposes the District is well within budget, showing revenue is slightly higher and expenditure is lower than budgeted. As long as the green line stays out of the shaded area the District is fiscally sound.

	<p style="text-align: center;">Coachella Valley Mosquito and Vector Control District</p> <p style="text-align: center;">Staff Report</p>	<p style="text-align: center;">May 14, 2019</p>
<p>Agenda Item: Informational Item</p> <p>District Travel – Grace Morales, Executive Assistant/Clerk of the Board</p>		
<p>Background:</p> <p>September 25-28, 2019: CSDA Annual Conference (Anaheim, CA) ~ “The CSDA Annual Conference & Exhibitor Showcase is the one conference special district Leaders can't afford to miss! It is the most densely packed educational and networking experience available to special districts. Come together with other special district leaders from across the state to meet with industry suppliers, hear from the best in special district-specific topics with over thirty breakout session options, network with your peers and more at the leadership conference for special districts.”</p> <p>Requests to attend must be made by the JUNE 2019 BOARD MEETING.</p>		



**Coachella Valley Mosquito and Vector Control District
Board Business Status Log 2019**

Board Action Item / Description		Month	Status	Comments
Contracts				
	New General Counsel Agreement	January	In Progress <input type="checkbox"/> Completed <input checked="" type="checkbox"/>	Retainer \$4,000/ Month for all general counsel legal services; excluding litigation
	Approval of General Manager Employment Agreement Amendment	January	In Progress <input type="checkbox"/> Completed <input checked="" type="checkbox"/>	2% COLA; Special Merit Pay 3.5%
	Cleaning Services Agreement with CleanExcel	January	In Progress <input type="checkbox"/> Completed <input checked="" type="checkbox"/>	Agreement executed for \$3,496 per month
	Service Agreement with Salton Sea Aerial Services	February	In Progress <input type="checkbox"/> Completed <input checked="" type="checkbox"/>	
	Public Works contract with MAAS Companies for project manager services for the Thermal facility asphalt paving project	February	In Progress <input type="checkbox"/> Completed <input checked="" type="checkbox"/>	
	Agreement with Palm Springs Air Conditioning for Installation of Dehumidifiers Salton Sea		In Progress <input type="checkbox"/> Completed <input checked="" type="checkbox"/>	
	Contract extension with Willdan Financial Services	March	In Progress <input type="checkbox"/> Completed <input checked="" type="checkbox"/>	
	Contract with Ceja Security International for security services	March	In Progress <input type="checkbox"/> Completed <input checked="" type="checkbox"/>	
	Renewal of annual maintenance contract with ESRI	March	In Progress <input type="checkbox"/> Completed <input checked="" type="checkbox"/>	
	Contract with Aerial Services for aerial reconnaissance	March	In Progress <input type="checkbox"/> Completed <input checked="" type="checkbox"/>	

	<p style="text-align: center;">Coachella Valley Mosquito and Vector Control District</p> <p style="text-align: center;">Staff Report</p>	<p style="text-align: center;">May 14, 2019</p>
<p>Agenda Item: Informational Item</p> <p>Staff report: Pacific Branch of the Entomological Society of America Annual Conference, March 31 – April 3, 2019 – Jennifer A. Henke, M.S. Laboratory Manager</p>		
<p>Report: The Pacific Branch of the Entomological Society of America Annual Conference provides an opportunity for researchers of insects from the western states of the U.S. to meet to discuss their latest research on a variety of topics. The meeting’s theme of “Stories of Our Science” encouraged a variety of presentations on science communication, reflections of careers of eminent researchers, and novel pest management strategies.</p> <p>I attended a variety of presentations including presentations from graduate students, communicating science and pest management strategies, and using predictive models. I served as President of the Branch through the conference, and I facilitated the transition to the new President on April 3 at our business meeting. I am the current Past-President through the next conference in March 2020.</p> <p>Attendees: Jennifer A. Henke, Laboratory Manager</p>		



**Coachella Valley Mosquito and
Vector Control District**

May 14, 2019

Staff Report

Agenda Item: Informational Item

Staff report from:

- MVCAC Spring Meeting and Legislative Day, April 2-3, 2019 in Sacramento, CA

Spring Meeting Report:

The spring quarterly meeting of the Mosquito and Vector Control Association of California provides an opportunity for committees that complete specific tasks within the association to meet and update the MVCAC Board of Directors and membership on their activities. Committees address statewide issues that impact mosquito and vector control districts from surveillance and control to outreach and legislation. The spring meeting was April 2, 2019.

Staff from the District serve on:

- Executive Committee – Jeremy Wittie, MVCAC President
- Information Technology Committee – Edward Prendez
- Laboratory Technologies Committee – Kim Hung
- Legislative Committee – Jeremy Wittie, Board Liaison
- Public Relations Committee – Jill Oviatt, Chair
- Regulatory Affairs Committee – Jennifer Henke, Chair
- Vector Control Research Committee – Wakoli Wekesa, Chair; Jennifer Henke, and Jeremy Wittie, Board Liaison
- Vector and Vector-borne Disease Committee – Kim Hung
- MVCAC Treasurer – David l’Anson
- Trustee Council Southern Region Representative – Doug Hassett

ATTENDEES:

Jeremy Wittie, District Manager
Jill Oviatt, Public Information Manager
Kim Hung, Vector Ecologist
Roberta Dieckmann, Field Supervisor
Wakoli Wekesa, Operations Manager

Legislative Day Report:

Each year, MVCAC organizes a Legislative Day in Sacramento where local district members educate their elected officials about the importance of mosquito and vector control in California. When members meet with legislators on behalf of their district and MVCAC, they help build a foundation of knowledge, form allies, and set the stage for favorable legislative and policy outcomes. The afternoon prior to Legislative Day, District Public Information Manager Jill Oviatt organized and led training for more than 20 participants with MVCAC's lobbying firm. The training objective was to coach MVCAC Leg Day attendees how to hold short, focused, goal-oriented meetings with legislators.

On April 3, 48 members representing 21 California mosquito and vector control agencies made their way to the Capitol building to meet with more than 50 legislators and staff to raise awareness and garner support for vector control issues, such as the MVCAC-sponsored bill AB 320, authored by Assemblymember Bill Quirk (D - Hayward), and intended to codify the CalSurv Gateway tool in statute as the statewide surveillance database to track and predict the emergence of invasive species and mosquito-transmitted virus activity. Trustee Sergio Espericueta, District General Manager Jeremy Wittie, and Public Information Manager Jill Oviatt, met with Coachella Valley state legislators or their staff:

- Assemblyman Eduardo Garcia, 56th District
- Assemblyman Chad Mayes, 42nd District
- Senator Jeff Stone, 28th District

During our visits we discussed MVCAC sponsored legislation, thanked legislators for their continued support of the District's efforts protecting public health, discussed current vector control issues facing the District, provided a copy of our annual report, and briefed them on our 2019 public education campaign. Legislators and their staff were supportive of both our statewide and local efforts. The District Legislative Day team also met with six other Southern California legislators and/or their staff on behalf of MVCAC and their local vector control agencies that were not able to attend Legislative Day.

ATTENDEES:

Jeremy Wittie, District Manager

Jill Oviatt, Public Information Manager

Sergio Espericueta, Trustee

PHOTOS AND SOCIAL MEDIA:



CVmosquito
@CV_mosquito

Always an inspiration to visit our State Capitol to share our strategies to protect the public from [#mosquitoborne](#) threats. This year [@CV_mosquito](#) Trustee Sergio Espericueta, GM Jeremy Wittie, and Communications Manager Jill Oviatt carried the [#FighttheBite](#) message [#MVCACLegDay](#)



2:54 PM - 3 Apr 2019



CVmosquito @CV_mosquito - Apr 3

Thank you [@AsmEGarciaAD56](#) staff for meeting with [@CVMosquito](#) during [@MVCAC1](#) Legislative Day in Sacramento and for your continued support of local and statewide efforts to track [#mosquito](#) species and prevent [#mosquitobornedisease](#) [#fightthebite](#)



1 1



CVmosquito @CV_mosquito - Apr 3

Thank you Sen. Jeff Stone & staff for meeting us during [@MVCAC1](#) [#LegDay](#) in Sacramento & supporting statewide tools to identify, track & control virus-carrying [#mosquitoes](#). We appreciate your commitment to protect the [#CoachellaValley](#) from mosquito-borne disease [#FightTheBite](#)



SECTION

9



ITEMS OF GENERAL CONSENT

	Coachella Valley Mosquito and Vector Control District Staff Report	May 14, 2019
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Agenda Item: Consent Calendar

Approval for the annual renewal of Abila, MIP Fund Accounting, Maintenance and Support in an amount not to exceed \$12,600 from Maintenance Contracts Fund 7675.01.210.000 – **Edward Prendez, IT Manager**

Background:

The District uses Abila MIP for financial software, which includes accounts payable, accounts receivable, fixed assets, and financial reporting. The software is used by all Department Managers and assigned staff from each department who enter electronic requisitions based on their departmental needs. The annual maintenance provides updates to the software, support and access to online resources.

Staff Recommendation:

Approval for the Annual Renewal of Abila, MIP Fund Accounting, Maintenance and Support.

Fiscal Impact:			
FY2018-19 Budget GL # 7675.01.210.000	Current Available Funds	Proposed Expense Fiscal Year 2018/19	Remaining Available Funds
53,000	22,592	12,600	9,992

	<p>Coachella Valley Mosquito and Vector Control District</p> <p>Staff Report</p>	<p>May 14, 2019</p>
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Agenda Item: Consent Calendar
Approval to purchase one new 2019 ARGO Frontier 750 Scout UTV 8X8 from ARGO, a sole source provider, in an amount not to exceed \$25,000 from Capital Replacement Equipment Fund – **Edward Prendez, Information Technology Manager**

Background:
The workload being placed on the District’s only ARGO is causing the bearing, flanges, sprockets, chains and body to wear prematurely. Replacing and repairing these items is a time intensive task, which results in the equipment being placed out-of-service for several days.

When this occurs during the Duck Club season, it impacts the Vector Control Technician’s ability to efficiently treat large areas in the Duck Clubs and Salton Sea Shoreline. Vector Control Technician crews have to be redirected to assist in areas normally handled by two Vector Control Technicians using an ARGO. Having a second ARGO will alleviate these issues and provide the means to extract equipment and personnel when they become stuck, as well as, extend the useful life of each machine.

The District’s staff requests the purchase of a new 2019 ARGO Frontier 750 Scout 8X8 UTV for the Operations Department use in routine control applications, site reconnaissance and workload distribution.
The Shop currently maintains one (1) ARGO Frontier 650 UTV 8X8 for Duck Clubs, Salton Sea Shoreline, and date palms environments.

Staff Recommendation:
Approval to purchase one new 2019 ARGO Frontier 750 Scout 8X8 UTV in an amount not to exceed \$25,000

Fiscal Impact:			
FY2018-19 Budget GL # 8415.13.210.000	Current Available Funds	Proposed Expense Fiscal Year 2018/19	Remaining Available Funds
520,000	77,662	25,000	52,662

	<p>Coachella Valley Mosquito and Vector Control District</p> <p>Staff Report</p>	<p>May 14, 2019</p>
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Agenda Item: Consent Calendar
Approval to enter into an agreement with Cintas through a US Communities Purchasing Alliance contract (# 12-JLH-0011C) for uniform service in an amount not to exceed \$30,500 per year, from Fund #7000.01.000.000, Uniform Expense – **Jeremy Wittie, M.S., General Manager**

Background:
The Coachella Valley Mosquito and Vector Control District provides represented staff with uniforms in accordance with the Memorandum of Understanding, Chapter 2001 of the California School Employees Association. As part of the District’s rebranding and identity project, uniforms with the new logo will help us standardize our look and demonstrate professionalism. The District has been receiving its uniform laundering service from Cintas (formerly G&K Uniforms) for a few years. The current uniforms are a G&K product.
Staff recently compared the quality and cost between Cintas and another vendor and found that Cintas’ quality meets our expectations. The contract with Cintas is through US Communities which the District will be taking advantage of by “piggybacking” on another government agency RFP. The uniform expenditure is budgeted annually and fluctuates depending on the amount of seasonal staff employed. Total preliminary uniform budget for FY2019-20 is \$30,500, an increase of almost \$4,000 for current fiscal year.

Staff Recommendation:
Approve to enter into a cooperative service provider agreement with Cintas in an amount not to exceed \$30,500 per year.

Fiscal Impact:			
FY2019-20 Budget Uniform Expense	Current Available Funds	Proposed Expense Fiscal Year 2019/20	Remaining Available Funds
30,500	30,500	30,500	0

	<p>Coachella Valley Mosquito and Vector Control District</p> <p>Staff Report</p>	<p>May 14, 2019</p>
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Agenda Item: Consent Calendar
Approval to remove, replace, and install three vortex exhaust fan VFDs and contract with NSWC, Johnson Controls, and Zaretsky to complete the lab exhaust fan replacement project in an amount not to exceed \$20,000 from facility replacement fund –**David I’Anson, Administrative Finance Manager**

Report:
The District’s Laboratory building airflow system uses three Greenheck vortex exhaust fans to regulate the airflow throughout the building as well as managing the negative air pressure needed for the Biosafety Level 3 (BSL3) Laboratory. The variable frequency drive (VFD) for the exhaust fan regulating HVAC airflow recently failed and was temporarily replaced with a manual VFD. The failed VFD is the same unit as the operating VFDs for the BSL lab. To ensure that there is minimal disruption to service it was determined that the VFDs for all three vortex exhaust fans be replaced with three new Danfoss VFDs. NSWC is the west coast distributor for Greenheck fans. For the work to be complete, the airflow systems control firms Johnson Controls and Zaretsky (Phoenix Controls) are needed on site for two days of installation and system set up.

Staff Recommendation:
Approval to remove, replace and install three vortex exhaust fan VFDs and contract with NSWC, Johnson Controls, and Zaretsky to complete the project in an amount not to exceed \$20,000 from facility replacement fund.

Fiscal Impact:

FY2018-19 Budget District Facility Capital Replacement Fund	Current Available Funds	Proposed Expense Fiscal Year 2018/19	Remaining Available Funds
Amount budgeted	1,749,339	20,000	1,729,339

SECTION

10



OLD BUSINESS

	<p>Coachella Valley Mosquito and Vector Control District</p> <p>Staff Report</p>	<p>May 14, 2019</p>
<p>Agenda Item: Old Business</p> <p>Approval of Resolution 2019-04 Amending the CVMVCD Mosquito-borne Virus Surveillance and Emergency Response Plan – Jennifer A. Henke, MS, Laboratory Manager</p>		
<p>Background:</p> <p>The District’s mission is to protect the health of the public in the Coachella Valley from excessive nuisance, caused by mosquitoes, and to mitigate risk from mosquito-borne viral disease through its ongoing mosquito surveillance and control program. Intensive control measures may be applied to reduce the potential for virus transmission to humans by suppressing infected mosquito populations for no less than a 10-day period while infectious viremia persists in vertebrate hosts, thus breaking the cycle by preventing new vector infections.</p> <p>The <i>CVMVCD Mosquito-borne Virus Surveillance and Emergency Response Plan</i> describes an enhanced surveillance and response program for the Coachella Valley dependent on the level of risk of mosquito-borne virus transmission to humans. The plan was created in 2003 and is updated every year to follow changes in surveillance and new findings regarding arboviruses. The Mosquito-borne Virus Surveillance & Response Plan generated by California Department of Public Health, Mosquito & Vector Control Association of California and University of California, is the core of this document; however, some necessary adjustments were made in benchmark ratings relative to the conditions in the Coachella Valley.</p>		
<p>Staff Recommendation:</p> <p>Approval of Resolution 2019-04 revising the CVMVCD Mosquito-borne Virus Surveillance and Emergency Response Plan.</p>		
<p>Exhibits:</p> <ul style="list-style-type: none"> • Resolution 2019-04 • CVMVCD Mosquito-borne Virus Surveillance and Emergency Response Plan 		

Resolution No. 2019-04

**A RESOLUTION OF THE BOARD OF TRUSTEES OF THE
COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL
DISTRICT AMENDING THE CVMVCD MOSQUITO-BORNE VIRUS
SURVEILLANCE AND EMERGENCY RESPONSE PLAN**

WHEREAS, the Coachella Valley Mosquito and Vector Control District (the “District”) is a political subdivision of the State of California, created and operating under the authority and provisions of California Health and Safety Code Section 2000 et seq.; and

WHEREAS, the State of California annually adopts the California Mosquito-Borne Virus Surveillance and Response Plan (“State Risk Assessment Plan”) which provides local agencies with a decision support system outlining the roles and responsibilities involved with mosquito-borne virus surveillance and response; and

WHEREAS, the District has prepared its own Mosquito-Borne Virus Surveillance and Emergency Response Plan, attached hereto as Exhibit “A” and incorporated herein by this reference (“District Risk Assessment Plan”), which incorporates the State Risk Assessment Plan with certain adjustments made to benchmark ratings relative to the conditions in the Coachella Valley.

NOW, THEREFORE, THE BOARD OF TRUSTEES OF THE COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT DOES HEREBY RESOLVE AS FOLLOWS:

Section 1. Recitals.

The recitals set forth above are true and correct.

Section 2. Adoption of Amended District Risk Assessment Plan.

The Board of Trustees hereby adopts the amended District Risk Assessment Plan.

Section 3. Delegation of Authority.

The District’s General Manager is hereby delegated all authority necessary to implement the District Risk Assessment Plan in a manner that is consistent with the State Risk Assessment Plan and the conditions in the Coachella Valley.

Section 4. Public Inspection and Copying.

A copy of the District Risk Assessment Plan shall be maintained at the District offices and shall be made available for public inspection and copying during regular business hours.

Section 5. Severability.

The Board of Trustees declares that, should any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as hereby adopted shall remain in full force and effect.

Section 6. Repeal of Conflicting Provisions.

All the provisions of any resolution or policy heretofore adopted by the District that are in conflict with the provisions of this Resolution are hereby repealed.

Section 7. Effective Date.

This Resolution shall take effect upon its adoption.

Section 8. Certification.

The Clerk of the Board shall certify as to the adoption of this Resolution and shall cause the same to be processed in the manner required by law.

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PASSED, ADOPTED AND APPROVED, this 14th day of May, 2019.

Doug Hassett, President
Board of Trustees

ATTEST:

Graciela Morales, Clerk of the Board

APPROVED AS TO FORM:

Lena D. Wade, General Counsel

REVIEWED:

Jeremy Wittie, MS, General Manager

EXHIBIT "A"

**SEE ATTACHED
COACHELLA VALLEY MOSQUITO AND
VECTOR CONTROL DISTRICT
MOSQUITO-BORNE VIRUS SURVEILLANCE AND
EMERGENCY RESPONSE PLAN**

COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT

MOSQUITO-BORNE VIRUS SURVEILLANCE AND EMERGENCY RESPONSE PLAN



CVMVCD 43-420 Trader Place Indio, CA 92201
E-mail: cvmosquito@cvmvcd.org
www.cvmvcd.org

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I. INTRODUCTION

For 50 years, California has had a mosquito-borne disease surveillance program in place to monitor mosquito abundance and encephalitis virus activity. The state-wide surveillance program was established in 1969. The District started with surveillance in the early 1980s. The present program was established in 1990 through a cooperative effort of the Arbovirus Research Group at the School of Public Health, UC Berkeley (now the Davis Arbovirus Research and Training, UC Davis), and the Coachella Valley Mosquito and Vector Control District (the District).

The District mission is to enhance the quality of life for our community by providing effective and environmentally sound vector control and disease prevention programs. This mission is accomplished through an ongoing mosquito surveillance and control program. Intensive control measures may be applied to reduce the potential for virus transmission to humans by suppressing infected mosquito populations for no less than a 10-day period while infectious viremia persists in vertebrate hosts, thus breaking the cycle by preventing new vector infections.

This document describes an enhanced surveillance and response program for the Coachella Valley dependent on the level of risk of mosquito-borne virus transmission to humans. The Mosquito-borne Virus Surveillance & Response Plan generated by California Department of Health Services, Mosquito & Vector Control Association of California and University of California, is the core of this document; however some necessary adjustments were made in benchmark ratings relative to the conditions in the Coachella Valley.

Guidelines for adult mosquito surveillance, processing mosquitoes for arbovirus detection, and testing dead birds and equines, as well as information regarding compounds approved for mosquito control in California are part of the California State Mosquito-Borne Virus Surveillance & Response plan.

II. BACKGROUND INFORMATION

Mosquito-borne viruses belong to a group of arthropod-borne viruses referred to us as arboviruses (for **arthropod-borne**). From 15 mosquito-borne viruses known to occur in California, to date, only St. Louis encephalitis virus (SLEV), western equine encephalomyelitis virus (WEEV), and West Nile virus (WNV) have caused significant outbreaks of human disease. These viruses are maintained in nature in wild bird-mosquito cycles, and therefore they do not depend upon infections of humans or domestic animals for their persistence.

Surveillance includes the monitoring of immature and adult mosquito abundance and detecting virus activity by testing (a) adult female mosquitoes, (b) sentinel chickens and wild birds, (c) horses, and (d) humans for infection. Surveillance must include not only the monitoring of mosquito-borne viruses known to exist in California, but also the detection of newly introduced viruses.

III. MOSQUITO SURVEILLANCE OBJECTIVES

Mosquito control is the only practical method of protecting people and animals from WNV, SLEV and WEEV infections. Larvae and pupae (immature stages) of *Culex tarsalis* and *Culex quinquefasciatus* can be found throughout the Coachella Valley in a wide variety of aquatic sources, ranging from urban retention basins to irrigated agricultural lands, Salton Sea marshes and duck club habitats.

A. MOSQUITO SURVEILLANCE

Surveillance includes monitoring of immature and adult mosquito abundance in the Coachella Valley throughout the year. To monitor mosquito larvae, “dippers” or long-handled ladles are used to collect samples from known and new water sources. At that time, the number of larvae and pupae per “dip” is estimated. These data are used to determine larval control measures.

The records of the number and developmental stages of larvae, source size treated, product name and amount used, with the control effectiveness data can provide an early warning tool for forecasting the size of the adult population.

Mosquito adult surveillance in the Coachella Valley is conducted by setting 53 gravid and CO₂-baited traps on a weekly basis, and setting an additional 56 CO₂ traps on a bi-weekly basis. Adult mosquito abundance is a key factor when evaluating the risk of disease transmission. **Guidelines for mosquito surveillance are summarized in Appendix A of California Mosquito-Borne Virus Surveillance and Response Plan – May 2018.**

B. MOSQUITO INFECTIONS

Early detection of virus activity may be accomplished by testing *Culex tarsalis* and *Culex quinquefasciatus*, the primary vectors of SLEV, WEEV, and WNV in the Coachella Valley for virus infection. Sampling of other mosquito species may be necessary to detect the introduction of viruses that do not have a primary avian-*Culex* transmission. Mosquitoes are trapped by using carbon-dioxide-baited traps and using gravid traps baited with water with enriched organic content and the females are then pooled in groups up to 50 for testing at the District. **Procedures for processing mosquitoes for virus infection are summarized in Appendix B California Mosquito-Borne Virus Surveillance and Response Plan – May 2018.**

C. DEAD BIRDS

Dead birds are reported to CDPH, then brain and eye tissue is sampled and tested at the District Laboratory for WNV. The dead bird testing algorithm is provided **in Appendix E of the California Mosquito-Borne Virus Surveillance and Response Plan – May 2018.**

D. EQUINE INFECTIONS

Equine disease due to WEEV and WNV are not sensitive indicators of epizootic (infections only in animals) WEEV and WNV activity in California. The reason for this is the widespread

vaccination of equines. If confirmed cases do occur, it is a strong indication that WEEV or WNV is active in the region. California Department of Agriculture (CDFA) and CDPH annually contact veterinarians to ensure equine vaccinations. Besides WEEV and WNV, other mosquito-borne viruses may also cause encephalitis in horses, and consequently, testing of equine specimens by CDPH has been expanded to include other viruses. **See Appendix F of the California Mosquito-Borne Virus Surveillance and Response Plan – May 2018.**

E. HUMAN INFECTIONS

In general, human cases are not a sensitive surveillance indicator of virus activity because most human infections (>99%) have no, or only mild, symptoms. When severe encephalitis cases do occur, rarely are arboviruses suspected, and sera generally are not sent to CDPH for testing. Communication with key hospitals and local health officials has been enhanced in the last year. However, rapid detection and reporting of confirmed human cases is crucial to local mosquito control agencies in planning and expending emergency control activities to prevent additional infections. **(See Appendices G and H of the California Mosquito-Borne Virus Surveillance and Response Plan – May 2018.)**

F. DATA ANALYSIS AND INTERPRETATION

1. All weather reports received from state and local agencies that can affect mosquito breeding will be reviewed and analyzed by the District staff. Weekly and biweekly mosquito occurrence reports received from the CVMVCD laboratory and from the CDPH – VBDS statewide will be used for forecasting purposes. For websites related to weather conditions refer to **Appendix K of the California Mosquito-Borne Virus Surveillance and Response Plan – May 2018.**

2. Reports from CVMVCD laboratory, CDPH – VBDS, and UCD on virus isolations in mosquito pools, confirmed human cases and horse cases of encephalitis will be used for operational program planning.

G. PUBLIC INFORMATION AND EDUCATION

Residents, farmers, and duck club owners can play an important role in reducing the number of adult mosquitoes by eliminating standing water that may support the development of immature mosquitoes. Farmers and ranchers can ensure that irrigation practices do not allow standing water for extended periods, and duck club owners can work with mosquito control agencies to determine appropriate flooding schedules. Education regarding personal protective measures will help reduce exposure to mosquitoes (insect repellents, protective clothing time of the exposure to mosquitoes). Equally important is the education of the medical community to recognize the symptoms of WEEV, SLEV, and WNV and request proper laboratory testing for their confirmation. Public health officials need to be alerted if a mosquito-borne viral disease is detected, especially if the public health risk is high.

The level of public information and education depends on the conditions and required response.

Level 1: During a normal mosquito-breeding season, routine public education will be conducted.

Level 2: Emergency planning, enhanced public education will be conducted including, posted messages on the symptoms of encephalitis, public information about pesticide applications and recommendations about avoiding mosquito bites.

Level 3: Full-scale media campaign is required at this level. Coordinate with CDPH in a regional emergency response in conjunction with California Office of Emergency Services in informing County Board of Supervisors, Local Health Departments, city, and county officials.

IV. MOSQUITO CONTROL OBJECTIVES

Mosquito control in California is conducted by over 80 local agencies, including mosquito and vector control districts, environmental health departments, and county health departments.

The Coachella Valley Mosquito and Vector Control District is a Special District and public agency that operates under the California Health and Safety Code, section 2270 (2000). The District currently serves 2400 square miles and is governed by an 11 member board of Trustees, nine representing the incorporated cities and two from Riverside County at large.

The District mission is to reduce the risk from disease carried by mosquitoes and other vectors for residents in the Coachella Valley. **See Appendix I of the California Mosquito-Borne Virus Surveillance and Response Plan – May 2018** for compounds approved for mosquito control in California.

A. LARVAL CONTROL

This strategy prevents producing another generation of mosquitoes capable of transmitting disease. Control of larvae is target-specific and covers a defined area. Larval mosquito control includes environmental manipulation, biological control, and chemical control.

Environmental manipulation decreases habitat availability for immature mosquitoes. It may include water management, such as conservative crop irrigation in the Coachella Valley in date and citrus orchards, drainage in the urban areas, recirculation of water at fish farms and water disposal through evaporation, such as at duck clubs.

Biological control uses natural predators, parasites, or pathogens to suppress immature stages of mosquitoes. In the Coachella Valley, mosquitofish, *Gambusia affinis*, are the most widely used biocontrol agent. These fish are released annually in a variety of habitats, mostly abandoned pools.

Chemical control presently includes products that are highly specific and have minimal impact on non-target organisms. These products include microbial control agents, such as *Bacillus thuringiensis israelensis* (Bti), *Lysinibacillus sphaericus* and spinosad. Microbial products control mosquito larvae within 24 - 48 hours, and Bti is used in short term habitats, such as irrigated dates and citrus orchards. Microbial products with a longer residual, such as *Lysinibacillus sphaericus*, are mostly used at permanent habitats of *Culex tarsalis* where penetration of the product is not an issue, or is applied by air to force the granules through the dense vegetation. Products based on the microbial-derived spinosad toxins are an effective tool to control immature mosquitoes; at the doses used to control mosquitoes there is little danger of non-target impacts. Spinosad containing products come in a variety of formulations; some work quickly within 48 hours, and others have a residual effect of up to 180 days. Insect growth regulators, such as methoprene, are widely in use in permanent breeding sources of *Culex tarsalis*, for instance, salt marshes along the Salton Sea and duck club ponds. Lightweight oils and monomolecular surface films are also used, but have the drawback of suffocating non-target surface breathing aquatic organisms as well. These surface products are primarily used against sources with large numbers of pupae.

B. ADULT CONTROL

Adult mosquito control may be required as an additional measure to control populations of infected mosquitoes and stem an epidemic. Adult mosquito control products may be applied by ground-based equipment and fixed wing airplanes or helicopters. Many factors need to be considered when selecting a pesticide and the target area for adult mosquito control treatments. These factors may include (1) efficacy against the target species or life cycle stages, (2) pesticide resistance (3) pesticide label requirements, (4) availability of pesticide and application equipment, (5) environmental conditions (6) cost, and (7) toxicity to non-target species, including humans. The products most likely used for adult mosquito control in the Coachella Valley include pyrethrin and pyrethroids such as resmethrin, sumithrin, etofenprox, lambda-cyhalothrin, permethrin, prallethrin, deltamethrin, and esfenvalerate. These products may be applied with a synergist such as piperonyl butoxide (PBO).

V. RESPONSE LEVELS

The California Mosquito-borne Virus Surveillance and Response Plan is based on conditions that exist at three response levels identified as normal season, emergency planning, and epidemic conditions. Six risk factors that are analyzed to determine the appropriate response level include:

- Environmental conditions (wetland surface water area, rainfall, and temperature)
- Adult mosquito vector abundance
- Virus isolation rates from mosquitoes
- Infection rates in wild or domestic animals
- Human cases of mosquito-borne viruses
- Proximity of detected virus activity to urban or suburban regions

Sentinel chicken seroconversions should be used in areas where they are available. Each of these factors is rated on a scale of 1 to 5, with 5 representing conditions indicative of a high risk of human infection with a mosquito-borne virus. An average rating is determined for the six factors and is correlated with the response level as follows:

Level 1: Normal Season (1.0 to 2.5)

Level 2: Emergency Planning (2.6 to 4.0)

Level 3: Epidemic Conditions (4.1 to 5.0)

Tables 1 – 3 provide worksheets to assist in determining the appropriate rating for each of the risk factors. The term “average” refers to averages over non-epidemic years in a specific region, such as that within the boundaries of a local mosquito and vector control district. Averages typically are determined for the preceding five-year period. Roles and responsibilities of key agencies involved in carrying-out the surveillance and response plan are outlined in “Key Agency Responsibilities.”

VI. MOSQUITO-BORNE VIRUS RISK ASSESSMENT TABLES

Table 1. West Nile virus

Table 1. WNV Surveillance Factor	Assessment Value	Benchmark	Value	
1. Environmental conditions Favorable environmental conditions in the Coachella Valley for virus multiplication or transmission Considers ambient temperature and rainfall for prior 2-week period	1	Temperature $\leq 56^{\circ}\text{F}$		
	2	Temperature 57 - 65 $^{\circ}\text{F}$		
	3	Temperature 66 - 72 $^{\circ}\text{F}$		
	4	Temperature 73 – 79 $^{\circ}\text{F}$		
	5	Temperature $> 79^{\circ}\text{F}$		
			<i>Cx tars</i>	<i>Cx quinq</i>
2. Adult <i>Culex tarsalis</i> and <i>Culex quinquefasciatus</i> abundance Area of North and West Shore in last 5 years = female mosquitoes /trap night for prior 2-week period.	1	Vector abundance well below average (<50%)		
	2	Vector abundance below average (50–90%)		
	3	Vector abundance average (90–150%)		
	4	Vector abundance above average (150–300%)		
	5	Vector abundance well above average (>300%)		
3. Virus isolation rate in <i>Culex tarsalis</i> and <i>Culex quinquefasciatus</i> mosquitoes Tested in pools of 50. Test results expressed as minimum infection rate (MIR) per 1,000 female mosquitoes tested for the prior 2-week period	1	MIR / 1000 = 0		
	2	MIR / 1000 = 0–1.0		
	3	MIR / 1000 = 1.1–2.0		
	4	MIR / 1000 = 2.1-5.0		
	5	MIR / 1000 > 5.0		
4. Dead bird infection Number if birds that have tested positive (recent infections only) for WNV during the prior 30 days.	1	No WN positive dead bird within 150 miles of District		
	2	WN positive dead bird within 150 miles of District		
	3	One WN positive dead bird in California		
	4	One WN positive dead bird in Coachella Valley.		
	5	Multiple WN positive dead bird reported in Coachella Valley		
5. Human cases Do not include this factor in calculations if no cases are detected in region	3	One or more human infections within 150 miles of District.		
	4	One human infection in Coachella Valley		
	5	Multiple human infections in Coachella Valley.		
			<i>Cx tars</i>	<i>Cx quinq</i>
Response Level / Average Rating: Normal Season (1.0 to 2.5) Emergency Planning (2.6 to 4.0) Epidemic (4.1 to 5.0)		TOTAL		

Table 2. Western Equine Encephalomyelitis virus

Table 2. WEEV Surveillance Factor	Assessment Value	Benchmark	Value
1. Environmental conditions Favorable environmental conditions in the Coachella Valley for virus multiplication or transmission Considers ambient temperature and rainfall for prior 2-week period	1	Temperature well below average	
	2	Temperature below average	
	3	Temperature average	
	4	Temperature above average	
	5	Temperature well above average	
2. Adult <i>Culex tarsalis</i> abundance Area of North and West Shore in last 5 years = female mosquitoes /trap night/ month	1	Vector abundance well below average (<50%)	
	2	Vector abundance below average (50–90%)	
	3	Vector abundance average (90–150%)	
	4	Vector abundance above average (150–300%)	
	5	Vector abundance well above average (>300%)	
3. Virus isolation rate in <i>Culex tarsalis</i> mosquitoes Tested in pools of 50. Test results expressed as minimum infection rate (MIR) per 1,000 female mosquitoes tested	1	MIR / 1000 = 0	
	2	MIR / 1000 = 0–1.0	
	3	MIR / 1000 = 1.1–2.0	
	4	MIR / 1000 = 2.1-5.0	
	5	MIR / 1000 > 5.0	
4. Proximity to urban or suburban regions (score only if virus activity detected) Risk of outbreak is highest in urban areas because of high likelihood of contact between humans and vectors.	1	Virus detected in rural area	
	3	Virus detected in small town or suburban area	
	5	Virus detected in urban area	
5. Human cases Do not include this factor in calculations if no cases found in region or in agency.	3	One or more human cases within 150 miles of District	
	4	One human case in Coachella Valley.	
	5	More than one human case in Coachella Valley.	
Response Level / Average Rating: Normal Season (1.0 to 2.5) Emergency Planning (2.6 to 4.0) Epidemic (4.1 to 5.0)		TOTAL	
		AVERAGE	

Table 3. St. Louis Encephalitis virus

Table 3. SLEV Surveillance Factor	Assessment Value	Benchmark	Value	
1. Environmental conditions Favorable environmental conditions in the Coachella Valley for virus multiplication or transmission. Considers ambient temperature for prior 2-week period.	1	Temperature $\leq 56^{\circ}\text{F}$		
	2	Temperature 57 - 65 $^{\circ}\text{F}$		
	3	Temperature 66 - 72 $^{\circ}\text{F}$		
	4	Temperature 73 – 79 $^{\circ}\text{F}$		
	5	Temperature $> 79^{\circ}\text{F}$		
			<i>Cx tars</i>	<i>Cx quinq</i>
2. Adult <i>Culex tarsalis</i> and <i>Culex quinquefasciatus</i> abundance Area of North and West Shore in last 5 years = female mosquitoes /trap night for prior 2-week period.	1	Vector abundance well below average (<50%)		
	2	Vector abundance below average (50–90%)		
	3	Vector abundance average (90–150%)		
	4	Vector abundance above average (150–300%)		
	5	Vector abundance well above average (>300%)		
3. Virus isolation rate in <i>Culex tarsalis</i> and <i>Culex quinquefasciatus</i> mosquitoes Tested in pools of 50. Test results expressed as minimum infection rate (MIR) per 1,000 female mosquitoes tested for the prior 2-week period	1	MIR / 1000 = 0		
	2	MIR / 1000 = 0–1.0		
	3	MIR / 1000 = 1.1–2.0		
	4	MIR / 1000 = 2.1-5.0		
	5	MIR / 1000 > 5.0		
4. Human cases Do not include this factor in calculations if no cases are detected in region	3	One or more human infections within 150 miles of District		
	4	One human infection in Coachella Valley.		
	5	Multiple human infections in Coachella Valley.		
			<i>Cx tars</i>	<i>Cx quinq</i>
Response Level / Average Rating: Normal Season (1.0 to 2.5) Emergency Planning (2.6 to 4.0) Epidemic (4.1 to 5.0)	TOTAL			
	AVERAGE			

VII. CHARACTERIZATION OF CONDITIONS AND RESPONSES

Normal Season

Risk Rating: 1.0 – 2.5

Conditions:
<ul style="list-style-type: none">• Average or below average rainfall; average seasonal temperatures• Mosquito abundance at or below five year average (key indicator = adults of vector species)• No virus isolations from mosquitoes• No equine cases• No recently infected arbovirus positive dead birds• No human cases
Response Activities by Role:
General Manager <ul style="list-style-type: none">• With Laboratory Manager, Operations Manager, and Public Information Manager, establish and maintain routine communication with local office of emergency services personnel; obtain Standardized Emergency Management System (SEMS) training• Ensure adequate emergency funding with Administrative Finance Manager
Laboratory Manager <ul style="list-style-type: none">• With General Manager, Operations Manager, and Public Information Manager establish and maintain routine communication with local office of emergency services personnel; obtain Standardized Emergency Management System (SEMS) training• With Public Information Manager, send routine notifications to physicians and veterinarians
Operations Manager <ul style="list-style-type: none">• With General Manager, Laboratory Manager, and Public Information Manager establish and maintain routine communication with local office of emergency services personnel; obtain Standardized Emergency Management System (SEMS) training• Coordinate routine mosquito larval control• Comply with National Pollutant Discharge Elimination System permit if applying pesticides to waters of the United States• Inventory pesticides and equipment

Public Information Manager

- Conduct routine public education (eliminate standing water around homes, use personal protection measures)
- Release routine press notices
- Send routine notifications to physicians and veterinarians

Vector Ecologist

- Conduct routine mosquito and virus surveillance activities
- Evaluate pesticide resistance in vector species

Emergency Planning
Risk Rating 2.6-4.0

<p>Conditions:</p> <ul style="list-style-type: none"> • Temperature and rainfall above average • Adult mosquito abundance >5-year average (150-300% above normal) • One or more virus isolations from mosquitoes (MIR / 1000 is <5) • Evidence of recent infection in 1-5 wild birds within the District • One human case within 150 miles of District • If WEEV, viral activity in small towns or suburban area •
<p>Response Activities by Role:</p> <p>Laboratory Manager</p> <ul style="list-style-type: none"> • Coordinate epidemic response in consultation with General Manager • Review candidate pesticides for availability and susceptibility of vector mosquito species • Identify any special environmental compliance concerns in affected area and communicate with Lead District staff.
<p>Public Information Manager</p> <ul style="list-style-type: none"> • Review epidemic response plan • Enhance public education (include messages on signs and symptoms of encephalitis; seek medical care if needed; inform public about pesticide applications if appropriate) • Enhance information to public health providers • Ensure notification of key agencies of presence of viral activity, including the office of emergency services
<p>Operations Manager</p> <ul style="list-style-type: none"> • Review epidemic response plan • Increase surveillance and control of mosquito larvae • Coordinate localized chemical control of adult mosquitoes • Contact commercial applicators in anticipation of large scale adulticide applications
<p>Vector Ecologist</p> <ul style="list-style-type: none"> • Review epidemic response plan • Increase adult mosquito surveillance • Increase number of mosquito pools tested for virus • Review candidate pesticides for availability and susceptibility of vector mosquito species

Epidemic Conditions
Risk Rating 4.1-5.0

<p>Conditions:</p> <ul style="list-style-type: none"> • Rainfall, temperature, wetland surface area well above average • Adult vector population extremely high (>300% above normal) • Virus isolates from multiple pools of mosquitoes (MIR /1000 > 5.0) • Increased seroprevalance rates in wild bird populations or die-off of susceptible species (more than 5) • One or more human cases in District • In the case of WEEV, virus detection in urban or suburban areas
<p>Response Activities by Role:</p> <p>General Manager and Administrative Finance Manager:</p> <ul style="list-style-type: none"> • Ensure adequate emergency funding • Determine whether declaration of a local emergency should be considered by the County Board of Supervisors (or Local Health Officer) • Determine whether declaration of a “State of Emergency” should be considered by the Governor at the request of designated county or city officials
<p>Administrative Finance Manager:</p> <ul style="list-style-type: none"> • Ensure state funds and resources are available to assist epidemic control efforts.
<p>Laboratory Manager:</p> <ul style="list-style-type: none"> • Coordinate epidemic response. • Coordinate the response with the local Office of Emergency Services or if activated, the Emergency Operation Center (EOC) • Request public health exemptions from FIFRA (40 CFR 166) and emergency tolerance exemptions (40 CFR 176) • With Operations Manager and Vector Ecologist, accelerate adult mosquito surveillance and control • Ensure remaining environmental compliance requirements are met.
<p>Operations Manager:</p> <ul style="list-style-type: none"> • With Laboratory Manager and Vector Ecologist, initiate mosquito surveillance and control in geographic regions without an organized vector control program • Continue enhanced larval surveillance and control of immature mosquitoes • Accelerate adult mosquito control
<p>Public Information Manager:</p> <ul style="list-style-type: none"> • Conduct full scale media campaign • Alert physicians and veterinarians

- Continue mosquito education and control programs until mosquito abundance is substantially reduced and no additional human cases are detected

Vector Ecologist:

- With Laboratory Manager and Operations Manager, initiate mosquito surveillance and control in geographic regions without an organized vector control program
- Broaden geographic coverage of adult mosquito surveillance and arbovirus testing.

VIII. PROGRAM SUPPORT

A. Key Agency Responsibilities

1. Local Mosquito and Vector Control Agencies

- Gather, collate, and interpret regional weather data
- Monitor abundance of immature and adult mosquitoes
- Collect and submit mosquito pools for virus isolation
- Pick up suitable dead birds and test for WNV
- Update the CalSurv Gateway weekly to record all mosquito samples and birds that are tested
- Conduct routine control of immature mosquitoes
- Conduct control of adult mosquitoes when needed
- Comply with NPDES permit if applying pesticides to or near water of the United States
- Educate public on mosquito avoidance and reduction of mosquito sources
- Coordinate with local Office of Emergency Services personnel
- Communicate regularly with neighboring agencies

2. Mosquito and Vector Control Association of California

- Coordinate purchase of sentinel chickens
- Receive, track, and disperse payment for surveillance expenses
- Coordinate surveillance and response activities among member agencies
- Serves as spokesperson for member agencies
- Establish liaisons with press and government officials

3. California Department of Public Health

- Collate adult mosquito abundance data submitted by local agencies; provide summary of data to local agencies
- Coordinate submission of specimens for virus testing
- Test sentinel chicken sera for viral antibodies
- Test human specimens for virus
- Conduct active surveillance for human cases
- Coordinate and oversee testing and acquisition of human specimens for virus and antiviral antibodies.
- Distribute a weekly bulletin summarizing surveillance test results
- Report weekly surveillance results to the CDC ArboNET surveillance system.
- Immediately notify local vector control agency and public health officials when evidence of viral activity is found
- Conduct epidemiological investigations of cases of human disease
- Coordinate and participate in a regional emergency response in conjunction with California Emergency Management Agency

- Provide oversight to local jurisdictions without defined vector-borne disease control program
- Maintain inventory of antigens, antisera, and RNA assays to detect exotic viruses
- Provide confirmation of tests done by local agencies

4. University of California at Davis, Davis Arbovirus Research and Training (DART)

- Conduct research on arbovirus surveillance, transmission of mosquito-borne pathogens, and mosquito ecology and control
- Provide support for testing mosquito and dead bird samples for endemic and exotic arboviruses
- Provide a panel of tests for a wide range of viruses for identification of viruses from human, equine, bird, or arthropod vectors
- Maintain an interactive website (<http://gateway.calsurv.org>) for dissemination of mosquito-borne virus information and data
- Maintain inventory of antigens and antisera to detect exotic viruses
- Provide confirmation of tests done by local or state agencies

5. California Department of Food and Agriculture

- Notify veterinarians and veterinary diagnostic laboratories about WEEV and WNV testing facilities available at California Animal Health and Food Safety Laboratory
- Provide outreach to general public and livestock and poultry producers on the monitoring and reporting of equine and rhabdovirus encephalitides
- Facilitate equine and rhabdovirus sample submission from the field
- Conduct investigations of confirmed WNV and WEEV equine cases

6. Local Health Departments and Public Health Laboratories

- Test human specimens for arboviruses
- Refer human and equine specimens to CDPH for further testing
- Notify local medical community, including hospitals and laboratories, if evidence of viral activity present
- Participate in emergency response
- Conduct epidemiological investigations of cases of human disease
- Report human arbovirus cases to CDPH
- Assist in public outreach and education

7. California Emergency Management Agency

- Coordinate the local, regional, or statewide emergency response under epidemic conditions in conjunction with CDPH via the Standardized Emergency Management System (SEMS)
- Serve as liaison with the Federal Emergency Management Agency (FEMA) in the event that a federal disaster has been declared

8. State Water Resources Control Board

- Review NPDES permit applications and respond in a timely manner.

9. Centers for Disease Control and Prevention

- Provide consultation to state and local agencies in California if epidemic conditions exist
- Provide national surveillance data to state health departments
- Provide diagnostic consultation

B. Equipment

Monitoring of emergency levels of larvicide and adulticide control products will be done on a monthly basis and displayed in the monthly district inventory sheets located on the district M drive at M:\Mosquito\Inventory. If larvicide or adulticide levels fall below or are in danger of falling below the emergency treatment level capability, steps will be taken to replenish inventory levels to meet the emergency requirements.

APPLICATION EQUIPMENT

<i>Equipment</i>	<i>Number in use</i>
1. Hand Cans (1 gal)	42
2. Hand Spreaders	30
3. Maruyama Backpack Sprayers (Granular)	29
4. Maruyama Backpack Sprayer (Liquid)	6
5. Stihl Backpack Sprayers (Liquid)	4
6. Hand Backpack Sprayers	21
7. Argo – all terrain vehicle	1
8. Powered Liquid Skid Mounted Sprayer	3
9. ATV - quadbike	2
10. ATV - ranger	2
11. London Fog ULV Model 18-20	2
12. Guardian Model 190ES ULV Sprayer	1
13. Longray Portable Electric Fog Generator	8
14. Colt Hand Portable Fog Generator	2

Aerial applicators available for contact

Salton Sea Air Service, Inc.
101-111 Desert Air Drive
North Shore, CA 92254

Clarke Environmental Mosquito
Management, Inc.
110 East Irving Park Road, 4th Floor
Roselle, IL 60172-9963
Telephone: (800) 323-5727

C. Control Products

LARVAL CONTROL

Products – The District will maintain an emergency level of larval control product inventory to control mosquito breeding at the following listed levels for 14 consecutive days. This level would be sufficient for District personnel to evaluate the scope and magnitude of the emergency, formulate a specific response plan, and procure additional control products if needed.

The following products are stored at the District and emergency response amounts will be available in combination to treat the listed acreage during the specified season. A combination of products within the same classification can fulfil the emergency requirements. The Maximum Product Required listed in the table is the amount required to fulfil the required treatment capability, provided that no other product within that category is available. The combined acreage capability for each classification of product is displayed in the monthly inventory spreadsheet located at M:/Mosquito/Inventory.

LARVAL CONTROL PRODUCT INVENTORY EMERGENCY RESERVE

Product	Classification	Treatment Rate	Maximum Product Required	Required Treatment Capability and Seasonal Availability
PUPACIDES				
Agnique MMF	Pupacide (liquid)	1 gal./acre	80 gals.	40 acres for 14 days – year round Retreat after 7 days 80 acres treated
Masterline Kontrol Mosquito Larvicide	Pupacide (liquid)	2 gal./acre	160 gals.	
INSECT GROWTH REGULATORS - methoprene				
MetaLarv S-PT	IGR (granule)	10 lbs./acre	2500 lbs. – April-Oct. 1500 lbs. – Nov.-March	250 acres April through October; 150 acres November through March. Altosid Liquid – re-treat after 7 days 500 acres April – October treated. 200 acres November – March treated. Altosid Pellets – re-treat after 42 days
Altosid Liquid	IGR (liquid)	4 oz./acre	15.6 gal. – April-Oct. 9.4 gal. – Nov.-March	
Altosid Pellets	IGR (granule)	7.5 lbs./acre	2500 lbs. – April-Oct.	

			1500 lbs. – Nov-March	MetaLarv S-PT – re-treat after 42 days 250 acres April – October treated 150 acres November – March treated
BACTERIAL PRODUCTS – Bti, <i>Lysinibacillus sphaericus</i>				
Aquabac 200G	Biological (granule)	10 lbs./acre	5000 lbs. – April - October	250 acres for 14 days – April through October Retreat after 7 days 500 acres treated
VectoBac 12AS	Biological (liquid)	16 oz./acre	62.5 gals. – April - October	
VectoBac G	Biological (granule)	10 lbs./acre	5000 lbs. – April - October	
VectoBac WDG	Biological (granule)	7 oz./acre	219 lbs. – April - October	
VectoLex WDG	Biological (granule)	1 lb./acre	250 lbs. – April - October	
VectoPrime FG	Biological (granule)	10 lbs./acre	5000 lbs. – April - October	
VectoMax FG	Biological (granule)	10 lbs./acre	5000 lbs. – April - October	
SPINOSAD PRODUCTS				
Natular G	Spinosad (granule)	9 lbs./acre	4500 lbs. April-Oct. 1800 lbs. Nov.-March	250 acres for 14 days – April through October. 100 acres for 14 days – November through March.
Natular 2EC	Spinosad (liquid)	6.4 oz./acre	25 gals. April-Oct. 10 gals. Nov.-March	Natular 2EC and Natular G - Retreat after 7 days. 500 acres April – October treated. 200 acres November – March treated.
Natular G30	Spinosad (granule)	10 lbs./acre	2500 lbs. April-Oct. 1000 lbs. Nov.-March	Natular G30 – Retreat after 30 days. 250 acres April – October treated. 100 acres November – March treated.

ADULT CONTROL

Products – District emergency adult mosquito control product inventory for rural areas of the Coachella Valley is estimated to be 250 acres, (35,000 linear feet), for 10 days ground fogging, plus 640 acres for 10 days for aerial ULV treatments. Urban control is estimated to be 250 acres, (35,000 linear feet), for 10 days ground ULV. In addition, barrier treatment products capable of treating 4 acres, (29,000 linear feet by 6 foot), will also be available for emergency response. This level would be sufficient for district personnel to evaluate the scope and magnitude of the emergency, formulate a specific response plan, and procure additional control products if needed. A combination of products within the same classification can fulfill the emergency requirements. The Maximum Product Required listed in the table is the amount required to fulfil the required treatment capability, provided that no other product within that category is available. The combined acreage capability for each classification of product is displayed in the monthly inventory spreadsheet located at M:/Mosquito/Inventory.

District personnel may substitute products based on product availability, mosquito population resistance studies, and environmental impacts.

ADULT CONTROL PRODUCT INVENTORY EMERGENCY RESERVE

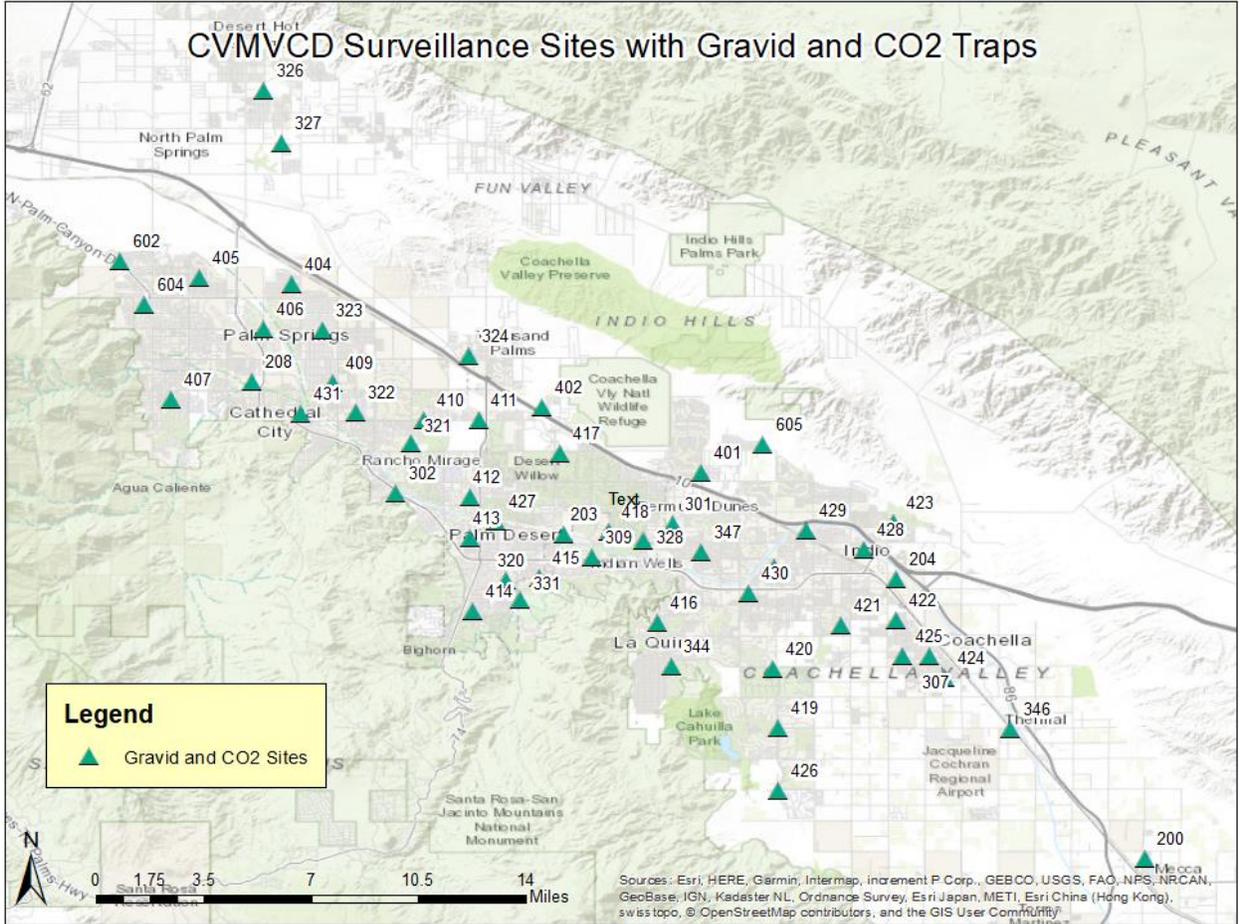
Adulticide Product	Classification	Treatment Rate	Maximum Product Required	Treatment Capability
Aqua-Reslin	Adulticide	0.356 oz. Aqua-Reslin/ Acre	23.7 gals.	6400 acres – rural fogging
EverGreen 5+25	Adulticide	0.876 oz. EverGreen/Acre	40 gals.	
Duet	Adulticide	1.28 oz. Duet/Acre	85 gals.	2500 acres – urban fogging
Aqua-Reslin	Barrier Spray	7.7 fl. oz./Acre barrier treatment	0.25 gals.	4 acres Barrier treatments
Demand CS	Barrier Spray	10 fl. oz./ Acre barrier treatment	0.32 gals.	

EMERGENCY CONTROL PRODUCT MONITORING

Monitoring of emergency levels of larvicide and adulticide control products will be done on a monthly basis and displayed in the monthly district inventory sheets located on the district M drive at M:\Mosquito\Inventory. If larvicide or adulticide levels fall below or are in danger of falling below the emergency treatment level capability, steps will be taken to replenish inventory levels to meet the emergency requirements.

IX. APPENDICES

Appendix A.1 - Map of Surveillance Locations with Gravid and CO₂ Traps in the Coachella Valley

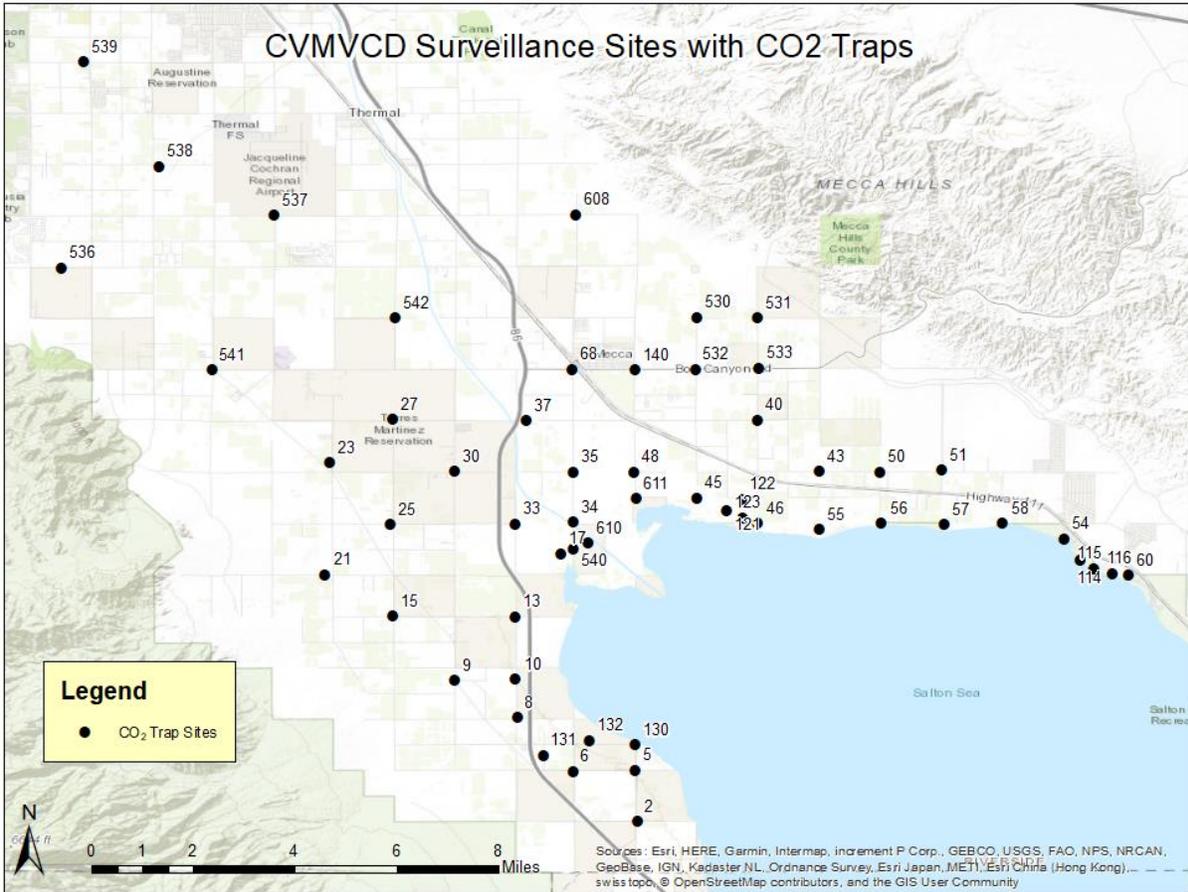


Appendix A.2 – List of Sites with Gravid and CO₂ Trap Locations in the Coachella Valley

No.	Site ID	City	Location Description	Latitude	Longitude
1	200	Mecca	Lincoln and Avenue 65	33.58057	-116.077744
2	203	Palm Desert	Sewer Plant- 43000 Cook St	33.733537	-116.351461
3	204	Indio	45500 Van Buren	33.712029	-116.19472
4	208	Palm Springs	Sewer Plant-4375 Mesquite Ave	33.80551	-116.498372
5	301	Bermuda Dunes	42901 Lima Hall Rd	33.738091	-116.298
6	302	Rancho Mirage	70-800 Hwy-Fire Station	33.752787	-116.43083
7	307	Coachella	1377 6th St- Fire Station #79	33.678478	-116.17849
8	309	Indian Wells	44900 El Dorado Dr	33.722858	-116.33811
9	311	Indio	80940 Shenandoah	33.717312	-116.2538
10	320	Palm Desert	Shadow Mountain CC Golf Club Ln	33.711571	-116.37869
11	321	Rancho Mirage	70240 Frank Sinatra Tamarisk CC	33.776779	-116.42374
12	322	Cathedral City	69380 Converse Rd	33.791478	-116.449645
13	323	Cathedral City	Ximino Rd	33.829895	-116.464957
14	324	Thousand Palms	31920 Robert Rd	33.817166	-116.396122
15	326	Desert Hot Springs	Horton Treatment Plant	33.943333	-116.493889
16	327	Desert Hot Springs	Bubbling Wells and 18th	33.917922	-116.484575
17	328	Palm Desert	Texas Ave by Fred Waring	33.730071	-116.313953
18	331	Palm Desert	Portola and Haystack	33.70248	-116.37198
19	344	La Quinta	Washington/Ave 52	33.671577	-116.3014
20	346	Thermal	56075 Hwy 111	33.641392	-116.14132
21	347	La Quinta	44555 Adams St	33.725139	-116.286773
22	401	Palm Desert	Apricot Ln and Nectarine Dr	33.762498	-116.286569
23	402	Thousand Palms	Jack Ivey Dr and Stage Line Dr	33.79328	-116.361724
24	404	Cathedral City	Landau Blvd and Ontina Rd	33.851569	-116.479707
25	405	Palm Springs	N Cerritos Rd and E Powell Rd	33.854673	-116.52311
26	406	Palm Springs	San Joaquin Dr and Diamond Rd	33.830473	-116.493034
27	407	Palm Springs	E Marion Way and Yucca Pl	33.796928	-116.536236
28	409	Cathedral City	Date Palm Dr and Ortega Rd	33.80482	-116.460464

29	410	Rancho Mirage	Oakmont Dr and Pinewood Cir	33.787414	-116.417516
30	411	Rancho Mirage	Paris Way and Victor Hugo Rd	33.787475	-116.391408
31	412	Rancho Mirage	Vista Dunes Rd and Calle La Reina	33.750953	-116.395504
32	413	Palm Desert	Monterey Ave and Parkview Dr	33.731428	-116.395485
33	414	Palm Desert	Quail Hollow Dr and Shady View Dr	33.693441	-116.393893
34	415	Indian Wells	Vintage Dr W and Wren Dr	33.712899	-116.362891
35	416	La Quinta	Avenida El Nido & Avenida Fernando	33.691862	-116.307095
36	417	Palm Desert	Vista Royale Dr and Desert Falls Dr	33.771598	-116.353434
37	418	Indian Wells	Via Orvieto and Via Uzzano	33.734619	-116.330152
38	419	La Quinta	Madison St and Airport Blvd	33.642348	-116.250393
39	420	La Quinta	Via Savona and Via Dona	33.670096	-116.252775
40	421	Indio	Burnett Dr and Freeman Ct	33.690273	-116.221029
41	422	Coachella	Meadows Ln and Brianne Ln	33.69262	-116.194968
42	423	Indio	Canzone Dr and Acqua Ct	33.738833	-116.195902
43	424	Coachella	Genoa St and Ave 53	33.665407	-116.171890
44	425	Coachella	Frederick St and Ave 51	33.675773	-116.191513
45	426	La Quinta	Madison and Ave 60	33.612400	-116.250240
46	427	Palm Desert	Gran Via and Casellana	33.739762	-116.383476
47	428	Indio	83488 Dillon Ave	33.726055	-116.236404
48	429	Indio	43181 Sunburst St	33.735454	-116.236404
49	430	Indio	Bunker Ln / Outdoor Resort	33.705498	-116.264377
50	431	Palm Springs	Kirkwood Dr / Cathedral Canyon	33.790378	-116.475413
51	602	Palm Springs	Mountain gates	33.862434	-116.560769
52	604	Palm Springs	270 Vereda Norte	33.841503	-116.549117
53	605	Indio	Ullswater Dr	33.775625	-116.257544

Appendix B.1 – Map of Surveillance Locations with only CO₂ Traps in the Coachella Valley



Appendix B.2 – List of Surveillance Locations with only CO₂ Traps in the Coachella Valley

No.	Site ID	City	Site Description	Latitude	Longitude
1	2	Oasis	Johnson and Avenue 84	33.44056	-116.0607
2	5	Oasis	Johnson and Avenue 82	33.45524	-116.061172
3	6	Oasis	Lincoln and Avenue 82	33.4549	-116.078977
4	8	Oasis	Buchanan and Avenue 80	33.47019	-116.094818
5	9	Thermal	Pierce and King St	33.48065	-116.112692
6	10	Oasis	Buchanan and Avenue 79	33.48105	-116.095336
7	13	Thermal	Buchanan and Avenue 76	33.49877	-116.095372
8	15	Thermal	Filmore and Avenue 76	33.49896	-116.130198
9	17	Mecca	Lincoln and Avenue 73	33.5168	-116.082468
10	21	Thermal	Polk and Avenue 74	33.51079	-116.149466
11	23	Thermal	Polk and Avenue 70	33.54264	-116.148191
12	25	Thermal	Filmore and Avenue 72	33.52516	-116.131143
13	27	Thermal	Filmore and Avenue 68	33.55503	-116.130245
14	30	Mecca	Pierce and Avenue 70	33.54028	-116.112702
15	33	Mecca	Buchanan and Avenue 72	33.52522	-116.095513
16	34	Mecca	Lincoln and Avenue 72	33.52597	-116.078921
17	35	Mecca	Lincoln and Avenue 70	33.53999	-116.078863
18	37	Mecca	Buchanan and Avenue 68	33.55476	-116.092281
19	40	Mecca	Hayes and Avenue 68	33.55494	-116.026518
20	43	Mecca	Garfield and Avenue 70	33.54023	-116.008863
21	45	Mecca	Grant and Avenue 71	33.53269	-116.043672
22	46	Mecca	Hayes and Avenue 72	33.52538	-116.026382
23	48	Mecca	Johnson and Avenue 70	33.54005	-116.061755
24	50	Mecca	Arthur and Avenue 70	33.53997	-115.991758
25	51	Mecca	Cleveland and Avenue 70	33.54041	-115.974133
26	54	Northshore	Vanderveer and Avenue 73	33.52112	-115.939335
27	55	Mecca	Garfield and Avenue 72	33.5237	-116.008858
28	56	Mecca	Arthur and Avenue 72	33.52537	-115.991129
29	57	Mecca	Cleveland and Avenue 72	33.52499	-115.97331
30	58	Northshore	Avenue 72 East of Cleveland	33.52548	-115.956632
31	60	Northshore	Salton Sea State Park	33.51077	-115.920793
32	68	Mecca	Lincoln and Avenue 66	33.56922	-116.079206
33	114	Northshore	Desert Mobile Home Park	33.51517	-115.93451
34	115	Northshore	Mecca Ave	33.51268	-115.930857
35	116	Northshore	South of Tripoli Rd	33.51122	-115.925506
36	121	Mecca	Colfax and Avenue 72	33.52908	-116.035213
37	122	Mecca	Gordon's Ranch	33.53225	-116.030868
38	123	Mecca	South of Gordon Ranch	33.52697	-116.030798
39	130	Oasis	Johnson and Avenue 81	33.46238	-116.061245

40	131	Oasis	81st Ave and Hwy 86	33.45942	-116.087272
41	132	Oasis	Johnson and Avenue 81	33.46359	-116.074278
42	140	Mecca	Johnson and Avenue 66	33.56911	-116.061466
43	530	Mecca	Grant and Avenue 64	33.58396	-116.04366
44	531	Mecca	Hayes and Avenue 64	33.5838	-116.026346
45	532	Mecca	Grant and Avenue 66	33.56923	-116.044161
46	533	Mecca	Hayes and Avenue 66	33.56967	-116.026249
47	536	Thermal	Orchid and Avenue 62	33.59809	-116.224755
48	537	Thermal	Tyler and Avenue 60	33.61307	-116.164041
49	538	Thermal	Van Buren and Avenue 58	33.62715	-116.196887
50	539	Coachella	Jackson and Avenue 54	33.65671	-116.218393
51	540	Mecca	Lincoln and Avenue 73	33.51823	-116.078914
52	541	Mecca	Harrison and Avenue 66	33.56895	-116.181827
53	542	Mecca	Fillmore and Avenue 64	33.58387	-116.129596
54	608	Mecca	Lincoln and Avenue 60	33.613174	-116.078175
55	610	Mecca	Lincoln near Whitewater Channel	33.523498	-116.078744
56	611	Mecca	End of Johnson	33.532468	-116.060957

Appendix C – Table 4. Annual and monthly total and average rainfall (in.) for the Coachella Valley

MONTH	2014	2015	2016	2017	2018	5-year Average
JANUARY	0	0.11	0.76	0.95	0.41	0.446
FEBRUARY	0.08	0.04	0	0.31	0	0.086
MARCH	0	0.21	0	0	0	0.042
APRIL	0	0	0.34	0	0	0.068
MAY	0	0.07	0	0	0	0.014
JUNE	0	0	0	0	0	0
JULY	0	0.53	0	0	0	0.106
AUGUST	0.29	0	0	0.07	0.12	0.096
SEPTEMBER	0.13	0.02	0.21	0	0.02	0.076
OCTOBER	0	0.14	0	0	0.82	0.192
NOVEMBER	0	0	0.01	0	0	0.002
DECEMBER	0.13	0	0.57	0	0.09	0.158
YEAR TOTAL	0.63	1.12	1.89	1.33	1.46	1.286

*This data used for surveillance factor # 1 in the Mosquito Borne Virus Risk Assessment Table calculations for WNV, WEEV, and SLEV on pages 9 – 11 of the Coachella Valley Mosquito Borne Virus Surveillance and Emergency Response Plan. Data is from weather station KTRM in Thermal, CA.

Appendix D – Table 5. Average Minimum and Maximum temperatures (°F) in the Coachella Valley

Month	2014			2015			2016			2017			2018			5-Year Average		
	Max	Avg	Min	Max	Avg	Min												
Jan 1-15	75	55	35	71	54	36	64	51	38	66	55	43	78	61	45	70.8	55.2	39.4
Jan 16-31	80	62	44	76	60	43	73	58	41	68	54	41	78	61	42	75	59	42.2
Feb 1-14	75	59	43	85	65	45	80	60	40	78	65	51	84	65	46	80.4	62.8	45
Feb 15-28	82	64	45	80	64	47	87	67	48	71	60	48	71	55	39	78.2	62	45.4
Mar 1-15	84	67	49	83	66	48	84	69	53	86	67	48	81	65	49	83.6	66.8	49.4
Mar 16-31	86	69	51	91	73	54	86	69	51	89	73	57	86	70	54	87.6	70.8	53.4
Apr 1-15	89	72	54	87	71	55	87	73	58	89	72	56	95	78	60	89.4	73.2	56.6
Apr 16-30	90	75	58	90	73	56	90	75	59	94	77	61	94	78	61	91.6	75.6	59
May 1-15	95	77	59	87	74	61	92	78	63	92	77	62	97	81	65	92.6	77.4	62
May 16-31	100	83	66	92	77	62	93	80	66	99	83	66	98	83	69	96.4	81.2	65.8
Jun 1-15	107	90	72	101	86	70	104	88	71	101	84	67	107	90	72	104	87.6	70.4
Jun 16-30	105	88	71	109	89	70	110	93	75	113	94	74	107	89	72	108.8	90.6	72.4
Jul 1-15	108	93	78	105	91	77	108	91	73	111	94	78	111	96	81	108.6	93	77.4
Jul 16-31	109	96	82	104	91	77	110	95	79	107	93	79	112	99	84	108.4	94.8	80.2
Aug 1-15	103	90	77	110	94	78	108	94	79	107	94	79	111	98	83	107.8	94	79.2
Aug 16-31	105	90	75	108	93	78	107	91	74	110	93	76	109	94	78	107.8	92.2	76.2
Sep 1-15	105	90	74	102	88	74	102	87	71	103	90	77	108	89	68	104	88.8	72.8
Sep 16-30	100	86	71	102	86	70	97	81	64	95	80	65	106	88	70	100	84.2	68
Oct 1-15	96	77	58	96	82	68	95	78	60	94	75	56	90	79	66	94.2	78.2	61.6
Oct 16-31	92	76	60	91	77	63	91	76	60	95	77	59	92	75	57	92.2	76.2	59.8
Nov 1-15	82	66	50	78	61	43	89	71	53	82	67	52	85	67	47	83.2	66.4	49
Nov 16-30	77	58	39	74	58	41	74	59	43	83	66	49	79	62	44	77.4	60.6	43.2
Dec 1-15	73	61	48	73	55	36	73	58	42	78	61	43	71	57	43	73.6	58.4	42.4
Dec 16-31	66	52	37	66	51	35	66	54	42	71	54	37	72	57	41	68.2	53.6	38.4

* This data used for surveillance factor # 1 in the Mosquito Borne Virus Risk Assessment Table calculations for WNV, WEEV, and SLEV on pages 9 – 11 of the Coachella Valley Mosquito Borne Virus Surveillance and Emergency Response Plan. Data is from weather station KTRM in Thermal, CA.

Appendix E – Risk Assessment Maps

The seasonal transmission risk of the arboviruses WNV, WEEV and SLEV in the Coachella Valley, among other factors, is related to temperature, rainfall, mosquito infection rates, and vector abundance and population size of vertebrate hosts. Some of these factors are used on a bi-weekly basis to determine level of risk for WNV, SLEV, and WEEV transmission in various areas or zones of the Valley. Some of the zones used to calculate arbovirus transmission risk are shown in the figures below. For the surveillance zones around the Salton Sea (Figure 3), tables 6, 7 and 8 present the average number of *Cx. tarsalis* and *Cx. quinquefasciatus* female mosquitoes per trap per month.

Figure 1 – Map of the Coachella Valley risk assessment zone.



Figure 2 – Map of urban and agricultural risk assessment zones.

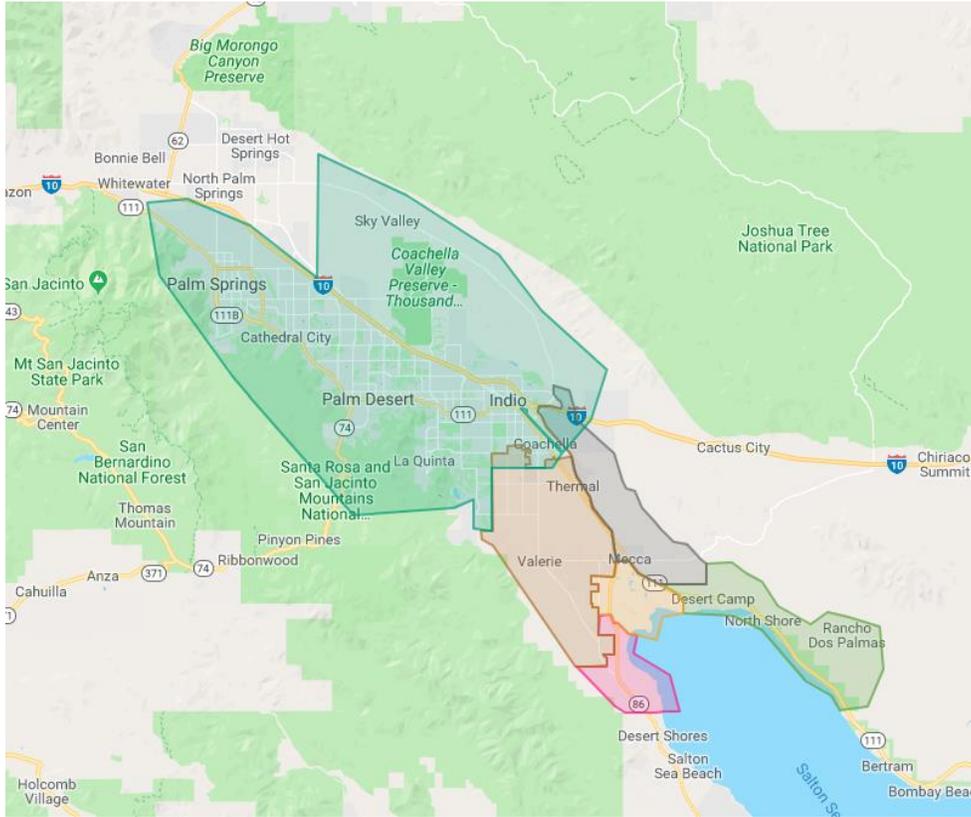


Figure 3 – Map of Salton Sea Shoreline Risk Assessment Zones

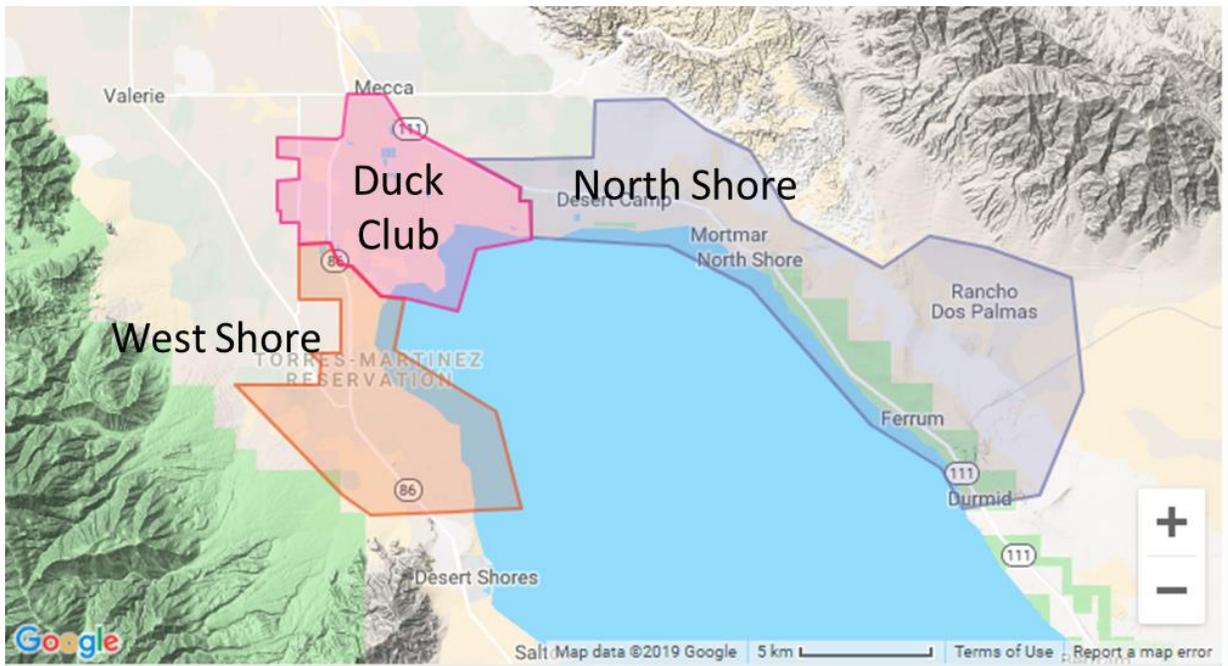


Table 6. North Shore Average Number of Vector Mosquitoes

MONTH	2014	2015	2016	2017	2018	<i>5-year Average</i>
JAN	67.5	74.5	62.83	224.33	204.5	126.73
FEB	76.8	126.8	135.17	158.33	444	188.22
MAR	138.17	153.08	217.94	137.92	260.25	181.47
APR	117.88	100.13	134.96	326.67	515.25	238.98
MAY	28.21	72.71	136.42	93.22	164.17	98.95
JUN	17.08	25.28	168.47	17.96	64.21	58.6
JUL	23.03	2.54	5.88	12.29	7.91	10.33
AUG	10.83	2.71	0.92	6.04	16.88	7.48
SEP	18.5	5.96	15.32	46.21	41.48	25.49
OCT	51.33	37.92	55.83	179.56	39.58	72.84
NOV	37.54	12.33	53.33	29.27	12.42	28.98
DEC	16	5.22	8	196	5	46.04

Table 7. Duck Club Zone Average Number of Vector Mosquitoes

MONTH	2014	2015	2016	2017	2018	<i>5-year Average</i>
JAN	76.71	360.09	65.23	293.6	173.57	193.84
FEB	97.91	316.68	289.69	278.4	305.1	257.56
MAR	491	317.4	1317.5	1370.3	365.68	772.38
APR	438.97	354.07	791.67	952.5	1527.13	812.87
MAY	57.69	87.2	218.1	388.24	406.03	231.45
JUN	122.33	68.64	251.82	111.35	121.94	135.22
JUL	69.13	32.9	45.46	24.47	38.9	42.17
AUG	159.9	46.9	71.84	26.65	32.46	67.55
SEP	414.1	123.1	227.85	322.97	350.27	287.66
OCT	1589.94	767.73	754.07	1179.51	318.59	921.97
NOV	420.97	136.57	294.73	158.68	129.4	228.07
DEC	46.85	13.08	10.8	84.6	82.36	47.54

Table 8. West Shore Average Number of Vector Mosquitoes

MONTH	2014	2015	2016	2017	2018	<i>5-year Average</i>
JAN	43.88	59	65	78.5	116.25	<i>72.53</i>
FEB	79.88	128.75	285.5	126.5	101	<i>144.33</i>
MAR	228.21	173.79	320	291.71	99.43	<i>222.63</i>
APR	170.93	62.14	194.5	62.64	77.21	<i>113.48</i>
MAY	48.64	40.21	150.36	27.43	68.05	<i>66.94</i>
JUN	26.21	51.89	213.45	32.07	82	<i>81.12</i>
JUL	8.33	17.57	22.29	19.5	21.79	<i>17.90</i>
AUG	3.07	21.07	9.53	5.57	18.71	<i>11.59</i>
SEP	19.29	22.64	18.79	17.33	54.14	<i>26.44</i>
OCT	106.57	122.93	56.93	33.86	31.57	<i>70.37</i>
NOV	41.93	67.93	26.71	41.11	3.14	<i>36.16</i>
DEC	13.42	8.11	3.5	21	14.5	<i>12.11</i>

SECTION

11



NEW BUSINESS

	<p>Coachella Valley Mosquito and Vector Control District</p> <p>Staff Report</p>	<p>May 14, 2019</p>
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Agenda Item: New Business
Approval to contract with Onyx, the lowest responsible bidder, for asphalt repair services of the District headquarters in an amount not to exceed \$111,000 from Facility Replacement Fund –**David I’Anson, Information Administrative Finance Manager**

Report:
A Request for Proposal (RFP) was issued March 27, 2019 for Asphalt Repair Services for the District’s driveways and parking areas at the Indio headquarters. The repair work includes removal and replacing of 75 locations of asphalt (3 inches in depth) estimated to be over 10,000 sf, double seal coat (approximately 123,000 sf) on a Saturday and to restripe the whole existing layout. A requirement of the RFP was a mandatory walkthrough on April 17, 2019.
Three bids were received and all were in attendance at the walkthrough:

Bidder	Amount
Unique Asphalt	\$188,656
Prestige Asphalt	\$137,700
Onyx Paving	\$111,000

Onyx Paving is the lowest bid.

Staff Recommendation:
Approval to contract with Onyx, the lowest responsible bidder, for asphalt repair services of the district headquarters in an amount not to exceed \$111,000 from Facility Replacement Fund.

Fiscal Impact:

FY2018-19 Budget District Facility Capital Replacement Fund	Current Available Funds	Proposed Expense Fiscal Year 2018/19	Remaining Available Funds
Amount budgeted	1,749,339	111,000	1,638,339