



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, March 13, 2018

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** – Shelley Kaplan, President
2. **Pledge of Allegiance**
3. **Roll Call**
4. **Motion to Excuse Absences**
5. **Confirmation of Agenda**
6. **Public Comment**
  - Those wishing to address the Board should complete a Public Comment Card and provide it to the Clerk of the Board.
  - Non-Agenda Items: Anyone wishing to address the Board on items not on the agenda should do so at this time. Each presentation is limited to no more than 3 minutes.
  - Agenda Items: Comments should be made when the agenda item is called. Each presentation is limited to no more than 3 minutes.
7. **Announcements**
  - 2018 Surveillance Plan and Environmental Reports – **Jennifer A. Henke, M.S., Laboratory Manager**
8. **Board Reports**
  - A. President's Report – **President Kaplan**
    - Strategic Planning Workshop Minutes (**Pg. 5**)

- B. Finance Committee – **Treasurer Weightman**
  - Finance Committee Minutes (**Pg. 7**)

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 February 13, 2018, Board Meeting (**Pg. 10**)
- B. Correspondence (**Pg. 14**)
- C. Approval of Expenditures for February 14-28, 2018, and March 1-13, 2018 (**Pg. 16**)
- D. Informational Items:
  - District Travel (**Pg. 24**)
  - National Pollutant Discharge Elimination System (NPDES) Annual Report – **Jennifer A. Henke, M.S., Laboratory Manager (Pg. 25)**
  - EPA Pesticide Environmental Stewardship Program (PESP) – **Jennifer A. Henke, M.S., Laboratory Manager (Pg. 29)**
  - California Environmental Quality Act (CEQA) Mitigated Negative Declaration Annual Compliance Report – **Jennifer A. Henke, M.S., Laboratory Manager (Pg. 38)**
  - Staff reports from:
    - VCJPA Annual Workshop, February 22-23, 2018, in Santa Cruz, CA (**Pg. 46**)
    - AMCA Annual Conference, February 26-March 2, 2018, in Kansas City, MO (**Pg. 48**)
    - MVCAC Lobby Day, March 6-7, 2018, in Sacramento, CA (**Pg. 49**)
- E. Department Reports (**Pg. 53**)
- F. Approval to renew annual maintenance contract with ESRI in an amount not to exceed \$19,000.00, from Fund #7675.01.210, Computer and Network Systems Maintenance Contracts – **Edward Prendez, Information Systems Manager (Pg. 72)**
- G. Approval of Resolution 2018-05 designating the week of April 15-21, 2018, as Mosquito Awareness Week – **Jill Oviatt, MCDM, Public Information Manager (Pg. 74)**
- H. Approval to contract with Aerial Services for aerial reconnaissance services of the Coachella Valley’s urban areas for neglected water features, in the amount not to exceed \$18,500.00, from Fund #7575.01.210, Aerial Surveillance – **Edward Prendez, Information Technology Manager (Pg. 78)**

- I. Approval to extend agreement with Fedak & Brown for audit services for fiscal years ending June 30, 2018, 2019 and 2020 – **David I’Anson, Administrative Finance Manager (Pg. 79)**

10. **Old Business**

- A. None.

11. **New Business**

- A. None.

12. **Closed Session**

- A. **Closed Session:** Conference with Labor Negotiations District Representatives: Melanie L. Chaney, Negotiator and Jeremy Wittie, MS, General Manager; Employee Organization: California School Employees Association (“CSEA”), Chapter 2001

13. **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 3 minutes.

14. **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.

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**Certification of Posting**

I certify that on March 8, 2018, 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, 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 March 8, 2018.

\_\_\_\_\_  
Crystal G. Moreno, Clerk of the Board

**SECTION**  
**8**



# **BOARD REPORTS**

# COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT

## Special Meeting Strategic Planning Workshop Minutes

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**TIME:** 11:00 A.M. FEBRUARY 7, 2018

**LOCATION:** 43420 Trader Place, Indio, CA 92201

**TRUSTEES PRESENT:**

<b>PRESIDENT:</b>	Shelley Kaplan	Cathedral City
<b>VICE-PRESIDENT:</b>	Doug Hassett	La Quinta
<b>TREASURER:</b>	Clive Weightman	Indian Wells

Coachella	Betty Sanchez	Palm Desert	Doug Walker
County at Large	Bito Larson	Palm Springs	Dr. Doug Kunz
Desert Hot Springs	Adam Sanchez	Rancho Mirage	Michael Monroe
Indio	John B. Stevens		

**TRUSTEES ABSENT:**

County at Large	Franz De Klotz
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**OTHERS PRESENT:**

Jeremy Wittie, General Manager  
Crystal Moreno, Clerk of the Board  
David l'Anson, Administrative Finance Manager  
Anita Jones, Human Resources Manager  
Jill Oviatt, Public Information Manager  
Jennifer Henke, Laboratory Manager  
Wakoli Wekesa, Operations Manager  
Edward Prendez, IT Manager  
Kim Hung, Vector Ecologist  
Olde Avalos, Field Supervisor  
Bobbye Dieckmann, Field Supervisor  
Mike Martinez, Field Supervisor

- 1. Call to Order:** President Kaplan called the meeting to order at 11:17 a.m.
- 2. Roll Call:** Roll call indicated seven (7) Trustees out of eleven (11) were present. Trustee Stevens arrived at 11:30am. Trustees Kunz and A. Sanchez arrived at 12:05pm.
- 3. Public Comments:** None.
- 4. Review and Prioritize Strategic Issues & Goals 2018-2021:** Strategic Planning Consultant Martin Rauch gave a brief introduction regarding the objective of the workshop. Jeremy Wittie

gave a short summary of the District's previous strategic plan. Mr. Rauch then began the strategic planning process. Discussion ensued.

**5. Trustee Comments:** None.

**6. Adjournment:** The meeting was adjourned by President Kaplan at 4:40 p.m.

DRAFT

# COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT

## Finance Committee Meeting Minutes

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**TIME:** 4:30 P.M. FEBRUARY 13, 2018

**LOCATION:** 43420 Trader Place, Indio, CA 92201

**TRUSTEES PRESENT:**

Cathedral City	Shelley Kaplan	Indian Wells	Clive Weightman
Coachella	Betty Sanchez		

**OTHERS PRESENT:**

Jeremy Wittie, General Manager  
David l'Anson, Administrative Finance Manager  
Crystal Moreno, Clerk of the Board

- 1. Call to Order:** Treasurer Weightman called the meeting to order at 4:38 p.m.
- 2. Roll Call:** Roll call indicated three (3) committee members out of three (3) were present.

**3. Confirmation of Agenda**

**4. Public Comments:** None.

**5. Items of General Consent:**

**5A – Approval of Minutes from January 9, 2018, Finance Committee Meeting:** On motion from Trustee B. Sanchez seconded by Trustee Kaplan and passed with two (2) approved (Kaplan and B. Sanchez) and one (1) abstention (Weightman), the Committee approved the minutes as presented.

**6. Discussion and/or Approval:**

**6A. Review of Check Report from Abila MIP for the January 5, 2018 to February 7, 2018:** Reviewed by Committee.

**6B. CalCard Charges January 2018:** Reviewed by Committee

**6C. Review of January 2018 Financials:** Reviewed by Committee.

**7. Old Business:**

- a. Review of Proposals Received for Reserve Study

Administrative Finance Manager l'Anson reported on the proposals received and the reference checks he conducted. A discussion ensued.

On motion from Trustee B. Sanchez seconded by Trustee Weightman and unanimously, the Committee approved to recommend entering into an agreement with Association Reserves to the full Board.

**8. New Business:** None.

**9. Schedule Next Meeting:** The next Finance Committee Meeting will be held on Tuesday, March 13<sup>th</sup>, at 4:30 p.m.

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

**11. Adjournment:** The meeting was adjourned by Treasurer Weightman at 5:06 p.m.

DRAFT

**SECTION**

**9**



# **ITEMS OF GENERAL CONSENT**

# COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT

## Board of Trustees Meeting Minutes

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CALLED TO ORDER: 6:00 P.M. FEBRUARY 13, 2018

LOCATION: 43420 Trader Place, Indio, CA 92201

### TRUSTEES PRESENT:

PRESIDENT:	Shelley Kaplan	Cathedral City
SECRETARY:	Franz De Klotz	County at Large
TREASURER:	Clive Weightman	Indian Wells

Coachella  
County at Large  
Desert Hot Springs  
Indio

Betty Sanchez  
Bito Larson  
Adam Sanchez  
John B. Stevens

Palm Desert  
Palm Springs  
Rancho Mirage

Doug Walker  
Dr. Doug Kunz  
Michael Monroe

### TRUSTEES ABSENT:

La Quinta

Doug Hassett

### OTHERS PRESENT:

Jeremy Wittie, General Manager  
David l'Anson, Administrative Finance Manager  
Anita Jones, Human Resources Manager  
Jill Oviatt, Public Information Manager  
Jennifer Henke, Laboratory Manager  
Edward Prendez, IT Manager  
Kim Hung, Vector Ecologist  
Bobbye Dieckmann, Field Supervisor  
Mike Martinez, Field Supervisor

1. **Call to Order:** President Kaplan called the meeting to order at 6:02pm.
2. **Pledge of Allegiance:** Trustee Walker 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 Treasurer Weightman seconded by Trustee B. Sanchez, and passed by unanimous vote, the Board of Trustees excused the absence of Vice-President Hassett.

**Ayes:** Trustees De Klotz, Kaplan, Kunz, Larson, Monroe, A. Sanchez, B. Sanchez, Stevens, Walker, and Weightman.

**Noes:** None.

**Abstained:** None.

**Absent:** Vice-President Hassett.

**5. Confirmation of Agenda**

**6. Public Comment:** Rancho Mirage resident, Brad Anderson, made a public comment regarding his recent termination from the District.

**7. Recognition:**

**7A – Approval of Resolution 2018-01 in recognition of Fernando Fregoso for his 20 years of service to the District – **Jeremy Wittie, M.S., General Manager:**** Vector Control Technician I was recognized for his twenty years of service. VCT I Fregoso made a few brief comments and thanks the Board of Trustees.

**8. Announcements:**

**General Manager’s Report:** General Manager Wittie reported on his attendance at the MVCAC Annual Conference, former General Manager Branka Lothrop received an Honorary Membership at the Conference, Vector Ecologist Hung received an award, he won the MVCAC 5K race, and he commented that he will be the MVCAC President next year. General Manager Wittie also provided brief updates regarding the District’s Thermal property and the Strategic Plan.

**Public Outreach Update:** Public Information Manager Oviatt gave a brief report regarding the District’s Annual Report and the advertising objectives for 2018.

**9. Board Reports:**

**9A – President’s Report:** President Kaplan reported on the Strategic Planning Workshop, commented that Trustee Larson has been added to the Finance Committee, and stated that Legal Counsel was not needed at the Board Meeting but is available by phone, which will the District help lower legal costs.

**9B – Finance Committee: Finance Committee Met Prior to Board Meeting:** Treasurer Weightman reported that the Finance Committee met to review the finances. He reported that the District’s revenue was higher than the last two years, the expenses were lower, and that the Finance are looking good.

**10. Items of General Consent:**

- A. Minutes for January 9, 2018, Board Meeting
- B. Correspondence
- C. Approval of Expenditures for January 10-31, 2018, and February 1-13, 2018
- D. Informational Items:
  - District Travel

- Staff reports from:
  - MVCAC Annual Conference, January 28-31, 2018, in Monterey, CA
- E. Department Reports
- F. Approval of Resolution 2018-02 – Establishing Signature Approval for Checks Written from District Accounts – David I'Anson, Administrative Finance Manager
- G. Approval of Resolution 2018-03 Amending the District's Research Policy – Jennifer A. Henke, M.S., Laboratory Manager
- H. Approval of Resolution 2018-04 Adopting Employee Pay Schedule, in conformance with California Code of Regulations, Title 2, Sections 570.5 and 571 – Anita Jones, Human Resources Manager
- I. Approval to purchase 5X MagMax-96 Viral Isolation Kits from ThermoFisher Scientific in an amount not to exceed \$9,000.00 from account 7575.01.400.04, Internal Mosquito RT-PCR – Jennifer A. Henke, M.S., Laboratory Manager
- J. Approval to renew the annual agreement with Salton Sea Aerial Services, Inc. to conduct both aerial adulticiding and larviciding operations as needed to assist the District in its mosquito control operations – J. Wakoli Wekesa, PhD, Operations Manager
- K. Approval to purchase one 13 cu. ft. Thermo Scientific Forma 900 series ultra-low temperature freezer from Fisher Scientific in an amount not to exceed \$15,000 from account 8415.01.400, Capital Equipment Parts and Supplies – Jennifer A. Henke, M.S., Laboratory Manager
- L. Approval of an advertising contract with KESQ for the District's Spring Mosquito Awareness Advertising campaign, in an amount not to exceed \$6,500 from Fund #6220.01.215, Public Outreach Advertising – Jill Oviatt, MCDM, Public Information Manager

On motion from Secretary B. Sanchez seconded by Trustee Stevens, and passed by unanimous vote, the Board of Trustees approved the Items of General Consent.

**Ayes:** Trustees De Klotz, Kaplan, Kunz, Larson, Monroe, A. Sanchez, B. Sanchez, Stevens, Walker, and Weightman.

**Noes:** None.

**Abstained:** None.

**Absent:** Vice-President Hassett.

**11. Old Business:** None.

**12. New Business:**

**12A.** Discussion and/or approval to contract with a Reserve Study Specialist, as recommended by the Finance Committee – **David I'Anson, Administrative Finance Manager:** Treasurer Weightman thanked Administrative Finance Manager I'Anson for researching reserve study firms and for putting together the RFP.

On motion from Trustee A. Sanchez seconded by Treasurer Weightman, and passed by unanimous vote, the Board of Trustees approved entering into an agreement with Association Reserves.

**Ayes:** Trustees De Klotz, Kaplan, Kunz, Larson, Monroe, A. Sanchez, B. Sanchez, Stevens, Walker, and Weightman.

**Noes:** None.

**Abstained:** None.

**Absent:** Vice-President Hassett.

**13. Closed Session:** None.

**14. Trustee Comments, Requests for Future Agenda Items, Travel and/or Staff Actions:** None.

**15. Adjournment:** The meeting was adjourned by President Walker at 6:44 p.m.

Coachella Valley Mosquito & Vector Control  
43420 Trader Place  
Indio, CA 92201

January 22, 2018

To Whom It May Concern:

I would like to commend one of your employees Fernando Gutierrez Technician 1, for his outstanding customer service.

On Tuesday January 16<sup>th</sup>, I called Fernando from the number he left on a previous year's pool inspection card. When we spoke he said he was out of town but still took the time to take down my information. I told him I had pictures that I could send him. He told me that he would have to physically inspection it but if I wanted I can send the pictures to his phone, which I did.

On Thursday January 18<sup>th</sup>, he called and said that he was doing the pool inspection. When I spoke to him on Tuesday, I told him I didn't have to be there and that he could just look over the fence on Bonita Lane and see the pool he said that he did that and had already completed the inspection. I asked him if he received my pictures. He said he did and thanked me again for letting him know that I had drained my pool.

On Thursday I had the opportunity to speak to Fernando again. I have spoken to him in the pass when he came to my property regarding fire ants. I have found that he is dedicated to his job and is very professional. This is a very rare quality for an employee to have these days.

In closing, please give him a attaboy for me and see that this letter gets into his personnel file and he receives a copy. Thank You.

Respectfully Submitted



Jeffrey

JD/jd

**From:** Graciela Morales  
**Sent:** Friday, February 9, 2018 10:04 AM  
**To:** DistrictWideGroup <districtwidegroup@cvmvcd.org>  
**Subject:** Call regarding exceptional service

Good morning,

I received a call from Mrs. Schneck who said the following about the service she received from **Vector Control Technician I, Fernando Gutierrez:**

"Fernando was the nicest person and explained all about fire ants. I have learned a lot from him. He did a wonderful job and is courteous."

She said often organizations get a lot of complaints, but in this case, she wanted to express how grateful she is for the exceptional service she received from Fernando.

Great job Fernando!

*Grace Morales*  
*Accounting Technician I*

**Coachella Valley Mosquito and Vector Control District**

Checks Issued for the Period of:  
February 14, 2018 to March 8, 2018

Check No	Payable To	Description	Check Amount	Total Amount
	Payroll Disbursement 2/9/2018	-	179,934.77	
	Payroll Disbursement 2/23/2018	-	169,029.95	
				<b>348,964.72</b>
<b>Pre-Approved Expenditures:</b>				
<b>Cash - First Foundation Bank Checking</b>				
41446-41460	Unused	-	-	
41461	Burrtec Waste & Recycling Services	Utilities: 3/1/18 - 3/31/18	385.90	
41462	CalPERS Healthcare	Cafeteria Plan Expense 3/1/18 - 3/31/18	76,934.80	
41463	CalPERS Retirement	Retirement Contributions: 1/21/18 - 2/17/18	46,536.50	
41464	Frontier Communications	IT Communications 1/25/18 - 3/24/18	908.34	
41465	Frontier Communications-Toll/POTS	Telecommunications 1/28/18 - 3/27/18	307.98	
41466	Gas Company	Utilities 1/24/18 - 2/26/18	639.54	
41467	ICMA Retirement Trust	Deferred Compensation 1/21/18-2/17/18	17,748.45	
41468	Imperial Irrigation District	Utilities 1/6/18-2/5/18	2,374.68	
41469	Imperial Irrigation Dist-Lab Account	Utilities 1/6/18-2/5/18	3,493.53	
41470	Indio Water Authority	Utilities 1/4/18-2/1/18	724.57	
41471	Principal Life Insurance Company	Cafeteria Plan Expense 3/1/18-3/31/18	10,333.73	
41472	Standard Insurance Company	Cafeteria Plan Expense 3/1/18-3/31/18	2,987.58	
41473	Verizon Business	IT Communications 2/1/18 - 2/28/18	1,189.59	
41474	Verizon Wireless	IT Communications 1/8/18-2/7/18	1,797.45	
41475	Vision Service Plan	Cafeteria Plan Expense 3/1/18-3/31/18	896.54	
				<b>167,259.18</b>
<b>Cash - First Foundation Bank Checking</b>				
41476	4imprint	Promotion & Education	2,167.44	
41477	Airgas Safety	Operating Supplies	468.75	
41478	Advance Imaging Systems	Contract Expense	259.00	
41479	American Engraving	Reproduction & Printing	1,243.54	
41480	Car Quest Auto Parts	Vehicle Parts & Supplies	557.21	
41481	Clairemont Equipment	Equipment Rentals	287.88	
41482	CleanExcel	Contract Expense	3,235.00	
41483	C&R Wellness Works	Employee Assistance Program	264.00	
41484	Daniel's Tire Service	Vehicle Parts & Supplies	519.47	
41485	Desert Electric Supply	Repair & Maintenance	920.55	
41486	Desert Sun Publishing	Recruitment/Advertising	446.60	
41487	Eisenhower Occupational Health Services	Physician Fees	170.00	
41488	Equipment Direct	Safety Expense	50.00	
41489	Fiesta Ford-Lincoln-Mercury	Vehicle Parts & Supplies	294.78	
41490	Gempler's	Equipment Application Parts & Supplies	125.50	
41491	Henke, Jennifer	MVCAC Annual Conference Expense	225.48	
41492	Hernandez, Janelle	Promotion & Education	130.00	
41493	Kim Hung-Lyu	MVCAC Conference Expense	468.70	
41494	Jernigan's Sporting Goods	Safety Expense	827.29	
41495	Kwik Kleen Of The Desert	Offsite Maintenance	154.00	
41496	Liebert Cassidy Whitmore	Attorney Fees - Personnel	4,116.40	
41497	Marlin Business Bank	Contract Expense	919.73	
41498	Moreno, Crystal	Tuition Reimbursement	873.00	
41499	National Conference on Urban Entomology	Professional Development	900.00	
41500	Oviatt, Jill	MVCAC Annual Conference Expense	491.51	
41501	Palm Springs Pump	Repair & Maintenance	125.00	
41502	Pitney Bowes Global Financial Services	Contract Services	346.62	
41503	Praxair Distribution	Equipment Parts & Supplies	47.28	
41504	Puretec Industrial Water	Equipment Parts & Supplies	272.55	
41505	Rauch Communication Consultants	Professional Fees	5,568.75	
41506	Refrigeration Supplies Distributor	Repair & Maintenance	40.90	
41507	Rutan & Tucker, LLP	Attorney Fees - General	6,687.33	
41508	Society For Human Resource Mgmt	Dues & Memberships	209.00	
41509	SoCo Group	Motor Fuel & Oils	3,798.43	
41510	Universal Brake & Alignment	Offsite Vehicle Maintenance & Repair	60.00	
41511	UPS	Postage	32.01	
41512	Verizon Wireless Services	Maintenance Contracts	1,007.00	
41513	Walker, Douglas	Trustee Travel	1,129.43	
41514	Waterlogic Americas	Employee Support	213.15	
41515	Waxie Sanitary Supply	Maintenance & Supplies	504.55	
41516	Zeigler Bros.	Operating Supplies	321.01	
41517	US Bank	CalCard	75,041.61	
<b>Cash - First Foundation Bank Check Run Total to be Approved</b>				<b>115,520.45</b>
<b>Total Expenditures: February 14, 2018 to March 8, 2018</b>				<b>631,744.35</b>

Shelley Kaplan, President

Clive Weightman, Treasurer

Coachella Valley Mosquito and Vector Control District  
**FINANCES AT A GLANCE**  
**ALL FUNDS COMBINED**  
For the Month Ended February 28, 2018

	Beginning of the Month	Change During the Month	End of the Month
INVESTMENTS	\$ 12,195,710	\$ (648,120)	\$ 11,547,590
CASH	<u>\$ 115,017</u>	<u>(4,937)</u>	<u>\$ 110,080</u>
INVESTMENTS & CASH	<u>\$ 12,310,727</u>	<u>\$ (653,057)</u>	<u>\$ 11,657,670</u>
CURRENT ASSETS	1,675,097	\$ (32,558)	1,642,539
FIXED ASSETS	10,878,714	\$ -	10,878,714
OTHER ASSETS	4,576,583	\$ 0	4,576,583
TOTAL ASSETS	<u><u>\$ 29,441,121</u></u>	<u><u>\$ (685,615)</u></u>	<u><u>\$ 28,755,507</u></u>
TOTAL LIABILITIES	\$ 5,525,507	\$ (60,434)	\$ 5,465,073
TOTAL DISTRICT EQUITY	23,915,615	(625,181)	23,290,434
TOTAL LIABILITIES & EQUITY	<u><u>\$ 29,441,122</u></u>	<u><u>\$ (685,615)</u></u>	<u><u>\$ 28,755,507</u></u>
RECEIPTS		\$ 36,505	
CASH DISBURSEMENTS			
Payroll	\$ 348,965		
General Admin	\$ 341,005		
Total Cash Disbursements		\$ (689,969)	
NON-CASH ENTRIES:		\$ (32,151)	
Accrual Modifications -			
Changes in A/P, A/R & Pre-paid insurance			
Change during Month - Excess of Cash over Receipts & Non-Cash Adjustments		<u><u>\$ (685,615)</u></u>	

**COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT**  
**INVESTMENT FUND BALANCES AS OF FEBRUARY 28, 2018**

INSTITUTION	IDENTIFICATION	Issue Date	Maturity Date	YIELD	General Fund	Thermal Capital Fund	Equipment Fund	BALANCE
	<b>Investment Fund Balance</b>				10,634,425.59	454,584.83	458,579.81	\$ 11,547,590
L.A.I.F	Common Investments			1.41%	5,729,367	244,911	247,063	\$ 6,221,341
Riverside County	Funds 51105 & 51115			1.47%	3,285,202	140,431	141,665	\$ 3,567,298
CalTRUST	Medium Term Fund			1.49%	452,782	19,355	19,525	\$ 491,661
First Foundation	Market Rate			0.25%	1,167,073	49,888	50,327	\$ 1,267,288
	<b>Total Investments</b>				10,634,424	454,585	458,580	\$ <b>11,547,588</b>

**PORTFOLIO COMPOSITION AS OF FEBRUARY 28, 2018**

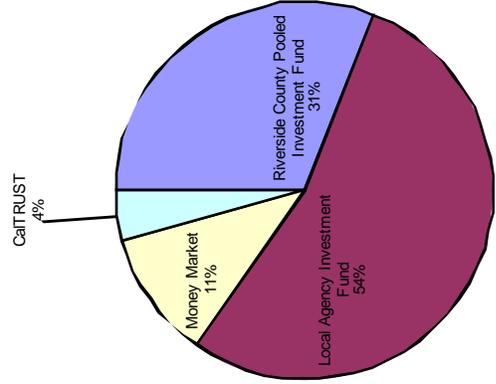
**WEIGHTED YIELD 1.3%**

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

Cash Journal - deposits  
 1000 - Cash - Investments  
 From 2/1/2018 Through 2/28/2018

Document N...	ID	Payee/Recipient Name	Transaction Description	Effective ...	Deposits
CD000063	PUBLICICHEAL...	Heluna Health	February Deposits - CDPH Grant	2/27/2018	35,881.05
CD000064	Racewire	Racewire	February Deposits - Fight the Bite 5K	2/28/2018	40.00
CD000065	FIRSTFOUN...	First Foundation Bank	February Deposits - Fight the Bite 5K	2/28/2018	300.00
CD000066			February Deposits - Interest	2/28/2018	284.24
			Total 1000 - Cash - Investments		36,505.29
			Report Total		36,505.29

CVMVCD  
Statement of Revenue and Expenditures  
From 7/1/2017 Through 2/28/2018

		<b>Budget -</b>	Current Year	Budget Variance	% Y-T-D
		<b>Original</b>	Actual		
<b>Revenues</b>					
4000	Property Tax - Current Secured	<b>3,698,334.00</b>	1,931,776.65	(1,766,557.35)	52.2%
4010	Property Tax - Curr. Supplmntl	<b>30,000.00</b>	19,392.43	(10,607.57)	64.6%
4020	Property Tax - Curr. Unsecured	<b>141,427.00</b>	145,598.63	4,171.63	102.9%
4030	Homeowners Tax Relief	<b>46,936.00</b>	20,202.58	(26,733.42)	43.0%
4070	Property Tax - Prior Supp.	<b>18,500.00</b>	21,428.11	2,928.11	115.8%
4080	Property Tax - Prior Unsecured	<b>7,000.00</b>	0.00	(7,000.00)	0.0%
4090	Redevelopment Pass-Thru	<b>4,260,487.00</b>	2,041,149.79	(2,219,337.21)	47.9%
4520	Interest Income - LAIF/CDs	<b>100,000.00</b>	72,293.21	(27,706.79)	72.3%
4530	Other Miscellaneous Receipts	<b>63,000.00</b>	239,175.53	176,175.53	379.6%
4551	Benefit Assessment Income	<b>1,620,638.00</b>	884,169.95	(736,468.05)	54.6%
	<b>Total Revenues</b>	<b>9,986,322.00</b>	5,375,186.88	(4,611,135.12)	53.8%
<b>Expenditures</b>					
<b>Payroll Expenses</b>					
5101	Payroll - FT	<b>4,448,098.00</b>	2,734,838.53	1,713,259.47	61.5%
5102	Payroll Seasonal	<b>167,800.00</b>	103,784.00	64,016.00	61.8%
5103	Temporary Services	<b>6,900.00</b>	6,900.00	0.00	100.0%
5105	Payroll - Overtime Expense	<b>42,000.00</b>	10,556.94	31,443.06	25.1%
5150	CalPERS State Retirement	<b>490,340.00</b>	329,536.28	160,803.72	67.2%
5155	Social Security Expense	<b>286,090.00</b>	178,703.40	107,386.60	62.5%
5165	Medicare Expense	<b>66,909.00</b>	42,656.84	24,252.16	63.8%
5170	Cafeteria Plan	<b>1,030,961.00</b>	713,479.70	317,481.30	69.2%
5172	Retiree Healthcare	<b>342,420.00</b>	247,902.20	94,517.80	72.4%
5180	Deferred Compensation	<b>93,153.00</b>	9,420.84	83,732.16	10.1%
5195	Unemployment Insurance	<b>34,669.00</b>	29,401.42	5,267.58	84.8%
	<b>Total Payroll Expenses</b>	<b>7,009,340.00</b>	4,407,180.15	2,602,159.85	62.9%
<b>Administrative Expenses</b>					
5250	Tuition Reimbursement	<b>15,000.00</b>	4,080.23	10,919.77	27.2%
5300	Employee Incentive	<b>6,000.00</b>	4,926.21	1,073.79	82.1%
5301	Employee Support	<b>4,000.00</b>	2,467.99	1,532.01	61.7%
5302	Wellness	<b>2,500.00</b>	0.00	2,500.00	0.0%
5305	Employee Assistance Program	<b>2,800.00</b>	2,056.00	744.00	73.4%
6000	Property & Liability Insurance	<b>113,647.00</b>	81,333.49	32,313.51	71.6%
6001	Workers' Compensation Insurance	<b>252,350.00</b>	168,129.36	84,220.64	66.6%
6050	Dues & Memberships	<b>23,530.00</b>	22,503.50	1,026.50	95.6%
6060	Reproduction & Printing	<b>22,600.00</b>	5,232.62	17,367.38	23.2%
6065	Recruitment/Advertising	<b>4,000.00</b>	2,101.30	1,898.70	52.5%
6070	Office Supplies	<b>17,900.00</b>	10,171.08	7,728.92	56.8%
6075	Postage	<b>8,000.00</b>	4,783.08	3,216.92	59.8%
6080	Computer & Network Systems	<b>5,000.00</b>	4,167.72	832.28	83.4%
6085	Bank Service Charges	<b>200.00</b>	69.36	130.64	34.7%
6090	Local Agency Formation Comm.	<b>1,100.00</b>	1,184.22	(84.22)	107.7%
6095	Professional Fees	<b>72,000.00</b>	30,603.21	41,396.79	42.5%
6100	Attorney Fees	<b>81,000.00</b>	64,688.00	16,312.00	79.9%
6106	HR Risk Management	<b>4,500.00</b>	4,500.00	0.00	100.0%
6110	Conference Expense	<b>39,600.00</b>	32,406.21	7,193.79	81.8%
6115	In-Lieu	<b>13,200.00</b>	8,700.00	4,500.00	65.9%
6120	Trustee Support	<b>4,000.00</b>	2,491.05	1,508.95	62.3%
6200	Meetings Expense	<b>2,000.00</b>	1,199.08	800.92	60.0%

CVMVCD  
Statement of Revenue and Expenditures  
From 7/1/2017 Through 2/28/2018

		<b>Budget -</b>	Current Year		
		<b>Original</b>	Actual	Budget Variance	% Y-T-D
6210	Promotion & Education	<b>20,000.00</b>	6,777.44	13,222.56	33.9%
6220	Public Outreach Advertising	<b>40,000.00</b>	715.00	39,285.00	1.8%
6500	Benefit Assessment Expenses	<b>88,440.00</b>	95,189.11	(6,749.11)	107.6%
<b>Total Administrative Expenses</b>		<b>843,367.00</b>	560,475.26	282,891.74	66.5%
<b>Utilities</b>					
6400	Utilities	<b>105,000.00</b>	56,438.79	50,444.21	53.8%
6410	Telecommunications	<b>11,300.00</b>	4,418.51	6,881.49	39.1%
<b>Total Utilities</b>		<b>116,300.00</b>	60,857.30	57,325.70	52.3%
<b>Operating</b>					
7000	Uniform Expense	<b>24,450.00</b>	16,222.70	8,285.27	66.4%
7050	Safety Expense	<b>20,550.00</b>	10,750.47	9,963.05	52.3%
7100	Physican Fees	<b>5,000.00</b>	1,570.00	3,430.00	31.4%
7150	IT Communications	<b>36,200.00</b>	20,867.29	15,861.43	57.6%
7200	Household Supplies	<b>4,000.00</b>	1,312.26	2,687.74	32.8%
7300	Repair & Maintenance	<b>42,000.00</b>	17,971.51	24,949.07	42.8%
7310	Maintenance & Calibration	<b>8,000.00</b>	4,276.75	4,145.00	53.5%
7350	Permits, Licenses & Fees	<b>12,500.00</b>	3,387.40	9,150.60	27.1%
7400	Vehicle Parts & Supplies	<b>29,000.00</b>	18,376.15	12,929.07	63.4%
7420	Offsite Vehicle Maint & Repair	<b>6,000.00</b>	6,566.01	(506.01)	109.4%
7450	Equipment Parts & Supplies	<b>19,500.00</b>	10,275.55	10,464.68	52.7%
7500	Small Tools Furniture & Equip	<b>1,700.00</b>	100.43	1,629.02	5.9%
7550	Lab Supplies & Expense	<b>30,500.00</b>	10,290.33	21,078.39	33.7%
7570	Green Pool Surveillance	<b>22,000.00</b>	0.00	22,000.00	0.0%
7575	Surveillance	<b>38,500.00</b>	31,346.57	16,067.97	81.4%
7600	Staff Training	<b>60,200.00</b>	31,707.86	30,657.27	52.7%
7650	Equipment Rental	<b>1,000.00</b>	287.88	1,000.00	28.8%
7675	Contract Services	<b>153,100.00</b>	80,066.47	85,351.59	52.3%
7700	Motor Fuel & Oils	<b>68,200.00</b>	45,502.30	22,697.70	66.7%
7750	Field Supplies	<b>9,400.00</b>	2,088.85	7,567.72	22.2%
7800	Control Products	<b>772,500.00</b>	334,884.82	533,861.90	43.4%
7850	Aerial Applications	<b>145,500.00</b>	35,750.00	113,950.00	24.6%
8415	Capital Outlay	<b>35,000.00</b>	9,168.78	25,831.22	26.2%
8487	Furniture & Equipment	<b>5,000.00</b>	1,245.09	3,754.91	24.9%
8510	Research Projects	<b>120,000.00</b>	120,000.00	0.00	100.0%
9000	Contingency Expense	<b>154,980.00</b>	0.00	154,980.00	0.0%
<b>Total Operating</b>		<b>1,824,780.00</b>	814,015.47	1,141,787.59	44.6%
<b>Contribution to Capital Reserves</b>					
8900	Transfer to other funds	<b>192,534.00</b>	0.00	192,534.00	0.0%
<b>Total Contribution to Capital Reserves</b>		<b>192,534.00</b>	0.00	192,534.00	0.0%
<b>Total Expenditures</b>		<b>9,986,321.00</b>	5,842,528.18	4,084,164.88	58.5%
<b>Net revenue over/(under) expenditures</b>		<b>1.00</b>	<b>(467,341.30)</b>		

**CVMVCD**  
Balance Sheet  
As of 2/28/2018  
(In Whole Numbers)

		Current Year
<b>Assets</b>		
Cash and Investments		
1000	Cash - Investments	11,547,590
1016	Petty Cash	500
1017	Petty Cash Checking	1,500
1025	First Foundation - General	11,965
1026	First Foundation - Payroll	96,115
	Total Cash and Investments	11,657,671
Current Assets		
1080	Interest Receivable	17,266
1085	Inventory	455,520
1168	Prepaid Insurance	127,728
1169	Deposits	1,042,025
	Total Current Assets	1,642,539
Fixed Assets		
1300	Equipment/Vehicles	1,685,368
1310	Computer Equipment	417,111
1311	GIS Computer Systems	301,598
1320	Office Furniture & Equipment	1,206,328
1330	Land	417,873
1335	Oleander Building	5,665,862
1336	Signage	23,651
1340	Structures & Improvements	3,026,126
1341	Bio Control Building	6,963,768
1342	Bio Control Equip/Furn	32,034
1399	Accumulated Depreciation	(8,861,005)
	Total Fixed Assets	10,878,714
Other Assets		
1520	Resources to Be Provided	3,489,922
1525	Deferred Outflows of Resources	1,086,661
	Total Other Assets	4,576,583
	Total Assets	28,755,507
<b>Liabilities</b>		
Short-term Liabilities		
Accounts Payable		
2015	Credit Card Payable	75,130
2020	Accounts Payable	61,739
2030	Accrued Payroll	(4,276)
2040	Payroll Taxes Payable	(1,296)
2185	Employee Dues	(29)
	Total Accounts Payable	131,268
	Total Short-term Liabilities	131,268

**CVMVCD**  
Balance Sheet  
As of 2/28/2018  
(In Whole Numbers)

		<u>Current Year</u>
	Long-term Liabilities	
2100	Pollution Remediation Obligati	2,100,000
2110	OPEB Obligation	1,032,754
2200	Net Pension Liability	1,392,005
2210	Deferred Inflows of Resources	229,218
2500	Compensated Absences Payable	579,827
	Total Long-term Liabilities	5,333,805
	Total Liabilities	5,465,073
	Fund Balance	
	Non Spendable Fund Balance	
3920	Investment in Fixed Assets	10,698,793
3945	Reserve for Prepays & Deposit	1,053,466
3960	Reserve for Inventory	304,047
	Total Non Spendable Fund Balance	12,056,306
	Committed Fund Balance	
3965	Public Health Emergency	3,328,774
	Total Committed Fund Balance	3,328,774
	Assigned Fund Balance	
3910	Reserve for Operations	5,991,793
3925	Reserve for Future Healthcare Liabilities	994,582
3955	Thermal Remediation Fund	452,244
3970	Reserve for IT Replacement	195,714
3971	Reserve for Vehicle Replacement	762,192
3985	Reserve for Facility Capital Improvements	994,582
	Total Assigned Fund Balance	9,391,107
	Unassigned Fund Balance	
3900	Fund Equity	(531,750)
	Total Unassigned Fund Balance	(531,750)
	Current YTD Net Income	(954,003)
	Total Current YTD Net Income	(954,003)
	Total Fund Balance	23,290,434
	Total Liabilities and Net Assets	28,755,507



**Coachella Valley Mosquito and Vector  
Control District**

**Staff Report**

**March 13, 2018**

**Agenda Item:** Informational Item

District Travel – **Crystal G. Moreno, Executive Assistant/Clerk of the Board**

**Background:**

**September 24-27, 2018: CSDA Annual Conference (Indian Wells, 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.”

**Requests to attend must be made by the SEPTEMBER 2018 BOARD MEETING.**



**Coachella Valley Mosquito and Vector  
Control District**

**Staff Report**

**March 13, 2018**

**Agenda Item:** Informational Item

National Pollutant Discharge Elimination System (NPDES) Annual Report – **Jennifer A. Henke, M.S., Laboratory Manager**

**Background:**

The District's application of pesticides to and adjacent to Waters of the United States are subject to compliance of the Clean Water Act. In California, the State Water Resources Control Board administers the Vector Control General Permit for the National Pollutant Discharge Elimination System (NPDES). The District must annually file a report with the State Water Board and the Colorado River Regional Water Quality Control Board. The report is required to address:

1. Applications of control products made to or near waters of the United States
2. Any proposed changes to our Best Management Practices for applications to or near waters of the United States
3. A map of our application and target areas which are waters of the United States

The executive summary of the report is attached.

**Exhibits:**

- 2017 NPDES annual report executive summary

2017 NPDES Annual Report

**1. Annual Report**

a. Executive Summary

The Coachella Valley Mosquito and Vector Control District (hereafter, the District) is a non-enterprise independent special district accountable to the citizens of the Coachella Valley, charged with the protection of public health through the control of vectors and vector-borne diseases within its boundaries. The District operates in the Colorado River Basin Regional Water Quality Control Board District (Region 7). The District operates under the Statewide National Pollutant Discharge Elimination System (NPDES) Permit for Biological and Residual Pesticide Discharges to Waters of the United States from Vector Control Applications (Water Quality Order No. 2011-0002-DWQ as amended by Water Quality Order No. 2012-0003-DWQ, 2014-0038-EXEC, and 2014-0106-DWQ) since it became effective on November 1, 2011. The District currently operates under Water Quality Order No. 2016-0039-DWQ since it became effective on March 1, 2016.

The District made 721 larvicide treatments to 210 waters of the U.S. in 2017. The District also made 17 ULV applications of adulticides near private duck club ponds and 2 barrier applications of adulticides to vegetation adjacent to a water of the U.S. in 2017. The District complied with the instructions on the labels of the pesticides and continued to follow the guidelines of its Pesticide Application Plan (PAP) to minimize biological and residual pesticides. Per Order 2016-0039-DWQ, the monitoring and reporting requirements of the Vector Control Permit were modified to consist of reporting of any visual adverse effects or reporting of non-compliant applications as well as monitoring and reporting of pesticide application rates for all applications. The District continued to follow the guidelines of its Pesticide Application Plan (PAP).

b. Summary of Monitoring Data

No adverse impacts from vector control applications were noticed or reported by any of the individual applicators. No non-compliant applications were performed. The annual report tables have been modified to include the application rate for each application reported.

The Coalition will provide information on the incidence of West Nile virus and other similar public health threats in the Coalition's annual report. The District detected West Nile virus in 120 mosquito pools and St. Louis encephalitis virus near the Salton Sea in 23 mosquito pools.

- c. Identification of Current Best management Practices (BMPs)  
The District uses the BMPs outlined in the District's PAP. These include: training employees to prevent and respond to chemical spills; keeping pesticides in secure locations; calibrating spray equipment; checking the accuracy of use on a daily basis; maintaining certification of staff as State Certified Public Health Vector Control Technicians; and use of biological and physical methods of control mosquitoes when appropriate.
- d. BMP Modifications Addressing Violations  
No violations of the General Permit were observed.
- e. Map of Applications  
See Attachments A, B and C. Attachment A was made using our Mosquito Mobile application to show larvicide applications. Sites in the application are either points or polygons (polys) depending on the size of the site when it was digitized. Attachment B is the route where aerial ULV for adult mosquitoes took place. Attachment C is the maps of the barrier routes.
- f. Log of Applications made to Waters of the U.S.  
See Pesticide Application Log (Attachment D). The application log includes 721 applications of larvicide made to waters of the U.S. It also includes 17 ULV applications of adulticide adjacent to waters of the U.S. and 2 barrier applications to vegetation situated near waters of the U.S.
- g. General Information on Applications.  
See Pesticide Application Log. Dosage, concentration, and quantity of pesticide used are derived from District recommended rates based upon biological research and are within pesticide label rates. In some cases, the division of the application amount by the area applied makes it appear as if there was an exceedance per the label. The District discussed with the Riverside County Agricultural Commissioner the inaccuracy of measuring small amounts of liquid for application to small areas. The District adopted a standard procedure of measuring no less than 0.5 mL of liquid larvicide to be applied at small acreage sites.
- Examining the ownership of properties within the District, several parcels are owned by Native American tribes. To be compliant with NPDES, the District has obtained permission to treat and an EPA NPDES permit for coverage of these areas. This may mean that there is a reduction in the number of locations or in the locations themselves that are reported to the California Water Resources Control Board when compared to previous years.
- h. Visual Monitoring Data  
No adverse impacts from vector control applications were seen or reported by individual applicators.

i. Monitoring Program, BMPs and PAP Recommendations  
The District has no recommendations for improving the current PAP and monitoring and reporting program.

j. Pesticide Application Log  
See 1f.

**2. Updated PAP Components**

Not applicable.

**3. Self-Monitoring Reports**

The District was not asked to submit any self-monitoring reports by the State Water Board or by the Colorado River Regional Water Quality Control Board.

**4. Monitoring Reports**

The District is a member of the Mosquito and Vector Control Association of California's Monitoring and Reporting Coalition. The MVCAC Coalition Monitoring Annual Reports summarizes the direction and outcome of the conversations between MVCAC and the SWRCB on potential changes to the Vector Control Permit.



**Coachella Valley Mosquito and Vector  
Control District**

**Staff Report**

**March 13, 2018**

**Agenda Item:** Informational Item

EPA Pesticide Environmental Stewardship Program (PESP) – **Jennifer A. Henke, M.S.,  
Laboratory Manager**

**Background:**

In 1994, the Environmental Protection Agency (EPA), established the Pesticide Environmental Stewardship Program (PESP) to promote the use of Integrated Pest Management (IPM) among users of pesticides. The American Mosquito Control Association (AMCA) became a member in 1997 and has since become a Gold level member. AMCA tracks the methods that mosquito control districts across the United States reduce the risk of pesticide exposure to their employees and the members of their community.

The District became a Bronze level member in 2012. As part of its five-year strategy document, the District committed to tracking components of IPM that reduce the risk of pesticide exposure and that demonstrate that we are stewards of the environment. The summary of our annual report for 2017 is attached.

**Exhibits:**

- 2017 CVMVCD EPA PESP annual report

## **The Coachella Valley Mosquito and Vector Control District's EPA Pesticide Environmental Stewardship Program 2017 Report**

### **Introduction**

The Coachella Valley Mosquito and Vector Control District (hereafter, the District) is an independent special district in southern California. We have adopted an Integrated Vector Management (IVM) program to control mosquitoes and red imported fire ants, and to suppress eye gnats and filth flies in residential areas. In addition, the District helps Coachella Valley residents to rodent-proof their property by carrying out property inspections and providing expert advice. The work is done in the 2,400 square miles of our District boundary. We learned of the EPA's Pesticide Environmental Stewardship Program (PESP) through the American Mosquito Control Association (AMCA), a Gold Tier PESP Member. The District chose to join in 2012 to engage with others to reduce "potential health and environmental risks associated with pests and pesticide use and in implementing pollution prevention strategies."

The District applies control products where people live, work, and play to protect public health. The District's IVM program involves procedures for minimizing potential environmental impacts, while providing the necessary level of public protection from vectors and the pathogens they can transmit. The District employs IVM principles by first determining the species and abundance of vectors through evaluation of public service requests and field surveys of immature and adult vector populations; and then, if the populations exceed predetermined criteria, use the most efficient, effective, and environmentally sensitive means of control. For all vector species, public education is an important control strategy, and for some species, it is the District's only control method. In some situations, the District also uses biological control such as the placing of mosquitofish in ornamental ponds. When these approaches are not effective or are otherwise inappropriate, control products are used to treat specific vector-producing or harboring areas to reduce vector populations.

The principles for mosquito and red imported fire ant control apply similarly to other vectors or nuisance species, including assessing the proximity to populated regions; the threat to surrounding organisms; the use of control products in strict accordance with label requirements; the eradication of breeding sources to prevent future re-infestation; education of the general public on preventative measures to prevent future colonization; and the administration of funding and institutional support necessary to accomplish these goals.

The IVM program as a whole, including registration and continuing education of state-certified personnel, is reviewed and approved by the California Department of Public Health Services through a formal Cooperative Agreement that is renewed annually. For work on state lands and riparian zones, wetlands or other sensitive habitats, the District coordinates and reviews activities with the California Department of Fish and Wildlife, the U.S. Fish and Wildlife Service, and the California State Lands Commission as Trustee Agencies. For chemical control activities, the District reports to and is periodically reviewed by the Riverside County Agricultural Commissioner.

The District's five-year strategy is to track the following criteria and to update the EPA PESP about our progress in our annual reports. What follows is the summary of our work in 2017, with a comparison to numbers reported in our 2016 report. This is the final year for this strategy, and the District is revising its plan to reflect changes that have occurred and items to monitor for the next five years.

## **ACTIVITY 1: SOURCE REDUCTION AND WORKING WITH MANAGERS OF PUBLIC LANDS**

The District will work with other public agencies to implement focused and environmentally sound mosquito control strategies where necessary. As part of our IVM program, these activities typically include source reduction, sanitation, and the use of biopesticides to control vectors early in their life cycle. In some cases, highly focused applications of chemical pesticides are directed at confirmed vector species to control populations and protect public health. Appropriate measures include:

### **Measure 1: Non-drainage source reduction.**

The District and the Coachella Valley Water District are cooperating in an effort to ensure property owners properly control artesian wells to comply with state code. In recent years, sufficient groundwater pressure has returned to areas within the eastern Coachella Valley to cause flowing conditions in artesian wells and indicates a healthy aquifer. Decreasing overdraft and returning artesian conditions are goals of the *Coachella Valley Water Management Plan*, which seeks to reduce pumping costs and protect groundwater quality. Replenishing the eastern portion of the Coachella Valley's aquifer with imported water is a crucial component of the valley-wide plan. It is important that the construction or repair of artesian wells is performed in a manner to prevent unchecked flowing conditions. Uncontrolled flows from artesian wells, can result in non-beneficial use of water, and may create standing pools that become unwanted breeding grounds for mosquitos. The Districts cooperated to work with property owners to repair wells and developed a rebate program to defer some of the costs for these repairs; 3 sites were repaired, impacting 61 acres of potential breeding sources. The District can provide a list of property owners and locations upon request. This is same as what was listed in 2016.

Some property owners in the eastern Coachella Valley operate duck hunting clubs in the winter. Water confined to ponds on the property can breed mosquitoes, but mosquito activity typically decreases as the water ages. Breaks in levees and release of water to desert flooding sites create new mosquito breeding sites which can be difficult to treat. In order to reduce desert flooding, the District implemented a policy in 2015 for duck clubs where any water not confined in a pond or designated drainage ditch system would result in charges for mosquito control products used to treat those areas. The duck clubs owners discussed their flooding plans and conducted conservation efforts which led to less mosquito production and fewer chemical treatments. In 2016, two clubs (Pintail and Tres Rios) did not flood, resulting in 51.7 acres of dry land. In 2017, five clubs did not flood (Adohr's, Middle Farms, Northwind, Pintail, and Tres Rios) resulting in 205.43 acres of dry land.

### **Measure 2: Drainage source reduction.**

The eastern half of the valley is primarily agricultural and contains 70 miles of open channels that convey water from the subsurface tile drain system and storm water to the Salton Sea. Between scheduled maintenance, channels grow vegetation which may create places for mosquitoes to breed. The Coachella Valley Water District is the agency primarily responsible for maintaining these channels. In 2012, we began working with CVWD to prioritize channel maintenance schedules. Seventeen channels have been cleared or restored since 2012, consisting of 155,450 linear feet and impacting 169.2 acres of potential breeding.

**Measure 3: Working with others.** The District works with municipalities, agencies, agricultural land owners, and other members of the public to reduce vector development.

Mosquito issues: City of Cathedral City, City of Coachella, City of Desert Hot Springs, City of Indian Wells, City of Indio, City of La Quinta, City of Palm Desert, City of Palm Springs, City of Rancho Mirage,

Community of Bermuda Dunes, Community of Mecca, Community of Northshore, Community of Oasis, Community of Thermal, Community of Thousand Palms, Coachella Valley Water District, County of Riverside, California Department of Public Health, California Department of Fish and Wildlife, University of California Extension Service, California Department of Food and Agriculture, Agua Caliente Band of Cahuilla Indians, Cabazon Band of Mission Indians, Torres Martinez Desert Cahuilla Indians, Twenty-Nine Palm Band of Mission Indians, US Fish and Wildlife, Artesian Duck Club, Coldwater Duck Club, Mecca Land Duck Club, Model A Duck Club, Sunrise Marsh, LLC, 26<sup>th</sup> Corporation, Adohr's Duck Club, Middlefarms Duck Club, Northwind Duck Club, North Shore Duck Club, Cocopah Date Farm, Hadley Dates, Oasis Dates, Bagdesarian Ranch, Desert Mist Ranch, Primetime Industries, Blue Beyond Fisheries, Desert Sea Farms, Golden Pond Fishery, Inc., Sunshine Forest, Inc., Kent Sea Tech Corp., Tres Rios Duck Club, Pintail Duck Club, 1 private homeowner, Palm Valley Country Club, the Desert Cities Homeowner Association Council, Outdoor Resorts Motorcoach Park and Safari Mobile Home Park.

Flies: C and R Farms, Living Desert, SA Recycling, University of California Extension Service, California Department of Food and Agriculture, Prime Time Farms, Andalusia at Coral Mountain Golf Course, The Palms Golf Club, and Trilogy Golf Club

## **ACTIVITY 2: VECTOR AND DISEASE SURVEILLANCE**

As part of the District's IVM program, surveillance is a key component that drives the use of pesticides in appropriate doses and locations. Prior to any pesticide application, confirmation is made of the number and species of the vector. For mosquito control, surveillance is also conducted for the pathogens which cause disease in the public, e.g., the viruses that cause West Nile encephalitis, St. Louis encephalitis, and western equine encephalomyelitis. Detection of high numbers of adult mosquitoes and virus drives the District Risk Modeling and Operational Strategy, where focused applications of adulticides are made to protect vulnerable members of the public.

In May 2016, the District detected *Aedes aegypti* within the city of Coachella. As this mosquito species is a competent vector of dengue, chikungunya, yellow fever, and Zika, the District worked to eradicate the mosquito from the Coachella Valley. This mosquito lives in close proximity to residents, and work was conducted in yards, which is a departure from work that is done to control the other mosquito species within the valley. The mosquito is now in 7 of the District's 9 cities as well as one unincorporated area of the District's boundary.

**Measure 1: Adult Mosquito Control.** In 2017, the District used adulticide products 214 days, 28 more days than in 2016. This has increased over the past few years as a result of *Aedes* mosquito treatments, primarily conducted at residences using small amounts.

We applied 106.875 gallons of Aqua-Reslin and 24 gallons of Scourge 18 + 54 to cover 30,671 acres on 17 nights using Ultra Low Volume methods through helicopter-mounted sprayers. We used ULV application methods on truck-mounted sprayers to cover 4,129.7 acres using 12.8 gallons of Scourge 18 + 54 and 4.81 gallons of Aqua-Reslin. In residential yards, we used 4.64 gallons of Aqua-Reslin using backpack sprayers for ULV applications for *Aedes* treatments.

Using barrier sprays, we applied 0.1575 gallons of Demand CS to 2.1 acres over 2 days in response to WNV and SLE positive samples. We applied 2.76 gallons of Demand CS to backyards for control of *Aedes* mosquitoes.

**Measure 2: Adult Mosquito Surveillance.** We trapped on 139 nights for *Culex* surveillance for a total of 5,486 trap nights where a trap night is one night for which a trap is set (for example, four traps set for three nights equals 12 trap nights). Additional surveillance for *Aedes* was performed on 339 nights for a total of 11,796 trap-nights. Because AGO traps were used, traps were set of for a week, leading to a large increase in the number of trap-nights. This brings us to a combined total of 340 nights of trapping (CO2, gravid, AGO, and BG-Sentinel traps) for 17,282 total trap nights.

**Measure 3: Larval Mosquito Surveillance.** We made 38,072 inspections for larval mosquitoes, a 2.9% increase.

**Measure 4: Larval Mosquito Control.** We made 20,072 applications to control larval mosquitoes, which includes treatments as a result of invasive *Aedes* inspections. The total number of treatments is a 15.60% increase in individual treatments. Total acreage treated was 2,309 acres for the native (endemic) larval mosquitoes, and 1,110.2 acres for *Aedes aegypti*.

Product Name	EPA Registration Number	2017 Amount Used	Percent Change
Agnique MMF	53263-28	18.60 gallons	157.26%
Altosid Briquets	2724-375	345 briquettes	-32.22%
Altosid Liquid	2724-392	183.70 gallons*	13,407.35%
Altosid Pellets	2724-448	2,791.24 pounds	-48.57%
Altosid WSP	2724-448	264 pouches	-11.1%
Altosid XR Briquets	2724-421	1,071 briquettes	13.25%
Altosid XR-G	2724-451	Not used in 2017	1,121.86 pounds in 2016
Aquabac 200G	62637-3	962.11 pounds	-49.48%
FourStar Bti CRG	85685-4	Not used in 2017	8.75 pounds in 2016
Kontrol	73748-10	69.80 gallons	68.05%
MetaLarv S-PT	73049-475	2,306.35 pounds	30.52%
Natular 2EC	8329-82	4.46 gallons	4.04%
Natular G	8329-80	3,547.68 pounds	-0.40%
Natular G30	8329-83	6,458.13 pounds	-23.45%
Natular T30	8329-85	209 tablets	-5.26%
Natular XRT	8329-84	1,721 tablets	36.84%
Spheratax WSP	84268-2	215 pouches	8.37%
Sustain MBG	769-992	Not used in 2017	0.08 pounds in 2016
VectoBac 12AS	73049-38	15.80 gallons	-41.55%
VectoBac G	73049-10	1,559.35 pounds	-50.93%
VectoBac WDG	73049-56	1,420.48 pounds*	-68.54%
VectoLex WDG	73049-57	0.45 pounds	-74.29%
VectoLex WSP	73049-20	0.04 pounds	Not used in 2016
VectoMax FG	73049-429	2,287.95 pounds	-60.41%
VectoMax WSP	73049-429	199 pouches	-27.37%
VectoPrime FG	73049-501	25.75 pounds	-74.96%

\*Altosid Liquid Larvicide and VectoBac WDG were used in an aerial larvicide campaign against *Aedes aegypti* mosquitoes. VectoBac WDG was used in 2016 and was known to be effective. Altosid Liquid Larvicide was selected due to its high specificity to mosquito larvae.

**Measure 5: Chicken Presence.** In 2016, we discontinued the use of chickens.

**Measure 6: Chicken Testing.** See Measure 5.

**Measure 7: Dead Bird Testing.** We tested 3 dead birds for WNV and found 0 positives. This is 2 more birds tested than in 2016.

**Measure 8: Mosquito Disease Surveillance.**

Month	½ of month	Period	# pools tested	# WNV positive pools	# SLEV positive pools	# CHIK, Dengue, Zika positive pools
January	1	1	75	0	0	0
January	2	2	1	0	0	0
February	1	3	75	0	0	0
February	2	4	34	0	0	0
March	1	5	93	0	0	0
March	2	6	557	0	0	0
April	1	7	370	0	0	0
April	2	8	376	1	0	0
May	1	9	341	0	0	0
May	2	10	311	0	0	0
June	1	11	320	12	0	0
June	2	12	197	35	0	0
July	1	13	150	12	0	0
July	2	14	193	30	1	0
August	1	15	129	8	0	0
August	2	16	252	11	1	0
September	1	17	210	8	20	0
September	2	18	286	2	1	0
October	1	19	324	1	0	0
October	2	20	325	0	0	0
November	1	21	301	0	0	0
November	2	22	152	0	0	0
December	1	23	35	0	0	0
December	2	24	41	0	0	0
<b>Totals</b>			<b>5,148</b>	<b>120</b>	<b>23</b>	<b>0</b>

This is a 10% increase in the number of samples tested, and it includes 566 pools which were tested for arboviruses such as chikungunya, dengue, and Zika. The number of positive WNV samples increased by 84% and the number of SLEV samples decreased by 300%.

**Measures 9 and 10: Red Imported Fire Ant Infestation and Follow-ups.** Inspections done to determine if treatment is needed showed that 99% of sites surveyed did have red imported fire ants. Follow-ups to sites showed that there was a 40% reduction in the fire ants.

**Measures 11 and 12: Fly Surveillance.**

Request #	Location	City	Date	Total number of traps set	Total number of flies caught	Average number of flies per trap
1	Trilogy HOA	La Quinta	3/7/2017	9	464	58
2	Trilogy HOA	La Quinta	3/22/2017	9	1,988	249
3	Trilogy HOA	La Quinta	4/18/17	9	1,605	201
4	Trilogy HOA	La Quinta	5/2/2017	9	3,543	443
5	Trilogy HOA	La Quinta	5/23/2017	9	385	48
6	Trilogy HOA	La Quinta	6/6/2017	9	1,179	147
7	Trilogy HOA	La Quinta	6/28/2017	9	493	62
8	Trilogy HOA	La Quinta	8/1/2017	9	5,892	737
9	Trilogy HOA	La Quinta	9/25/2017	9	1,278	160
10	Trilogy HOA	La Quinta	10/20/2017	9	477	60

We collected on five occasions in 2016, and we caught 9,513 more flies in 2017 due to doubling our trapping efforts.

**ACTIVITY 3: BIOLOGICAL CONTROL**

The District conducts biological control where feasible, using mosquitofish reared on site. Biological control agents are stocked on private property in accordance with California Department of Fish and Wildlife Policy.

**Measure 1:** We stocked **97,275** mosquitofish (a 11.20% decrease)

**Measure 2:** We stocked **0** tadpole shrimp eggs, which is unchanged from 2014.

**ACTIVITY 4: TRAINING VECTOR CONTROL STAFF**

District technicians are highly trained individuals who daily use techniques to reduce pesticide risk. As certified California Vector Control Technicians, staff receives training in biennial cycles on pesticides, mosquitoes, other invertebrates, and vertebrates of importance to public health as approved and required by the California Department of Public Health. In addition, staff is also trained in-house on standard operating procedures, including but not limited to, spill prevention and clean-up, identification of protected species, and calibration of equipment.

**Measure 1:** The number of certified VCTs on staff was **46** as of December 31, 2017. This is one fewer VCT than at the same time the previous year.

**Measure 2:** The type of training received annually. This may include annual conferences, college programs, special training, and in-house training.

Outside Training:

Training	Number of Attendees
Mosquito and Vector Control Association of California annual conference	9
American Mosquito Control Association annual conference	6
Imported Fire Ant conference	3
Entomological Society of America Annual Conference	1

In-house Training:

TRAINING	DATE	ATTENDEES
<b>Staff-wide Training (at Staff Meetings)</b>		
Clean Hands	2/10/2017	49
Phone Safety	3/17/2017	55
Stress Management	4/21/2017	48
Heat Safety and ULV Exposure	5/19/2017	49
Injury and Illness Prevention Program	6/16/2017	56
Hazard Communication	7/21/2017	36
Distracted Driving	9/22/2017	47
Hazard Communication	11/17/2017	43
<b>Department Specific</b>		
N-Series - Annual Pesticide Handler Safety Training	1/9/2017	42
Labels and Safety Data Sheets	1/12/2017	42
Pesticide Management and Inventory	1/13/2017	24
Control Product Use and Selection	1/20/2017	42
Resistance Management and Product Rotation	1/20/2017	42
Respirator Use and Fit	1/23/2017	42
Listed Species, CEQA, and NPDES	1/23/2017	42
Safe Pesticide Handling and Personal Protective Equipment	1/23/2017	42
Spill Prevention and Clean-up	1/23/2017	42
Recognizing and Preventing Heat Stress	1/31/2017	42
NPDES and CEQA	3/14/2017	42
Laboratory Safety Data Sheets	3/20/2017	12
Sharps Safety	5/15/2017	12
Laboratory Field Safety	6/26/2017	10
Calibration of Laboratory Equipment	7/24/2017	11

*\*The date above reflects when the initial training was given. Additional or make-up trainings may have occurred at later dates.*

**ACTIVITY 5: PUBLIC OUTREACH**

The District believes that educating members of public is important in reducing pesticide risk. As the public becomes better informed about vectors and vector control issues, vector populations will be reduced and applications of chemicals will be reduced.

**Measure 1:** The number of IVM brochures and flyers distributed for the calendar year was 22,000. This included disease notification postcards with IVM messaging included sent to residents' homes in neighborhoods where West Nile virus and Saint Louis encephalitis virus had been detected and to residents where the invasive mosquito species *Aedes aegypti* had been detected, as well as brochures and informational handouts distributed at talks and events. This is an increase from last year, likely due to the record number of mosquito samples which tested positive for West Nile virus and the continued expansion of *Ae. aegypti* within the District.

**Measure 2:** The District conducted **62** outreach activities in 2017 that covered the topics of IVM, environmental stewardship, or PESP, reaching about **6,000** people. We performed 61 outreach activities in 2016.

**Measure 3:** The number of paid TV, radio, and newspaper spots was 1,200 (compared to 566 paid spots in 2016). When adding each media outlet's reach, the total reach was more than 800,000 during one campaign, double the reach of the previous year. We also conducted an online digital campaign resulting in 160,000 digital impressions and a movie theater campaign on 60 cinema screens with 422,000 projected impressions. Fifteen media releases were distributed in 2017 (five fewer than the previous year), resulting in more than 50 TV, radio, newspaper, and electronic news stories (about the same as the previous year). Due to a change in the method used to track website visitors, we cannot compare this year to previous years. The new tracking method logged 11,000 sessions on the District website in 2017.



**Coachella Valley Mosquito and Vector  
Control District**

**Staff Report**

**March 13, 2018**

**Agenda Item:** Informational Item

California Environmental Quality Act (CEQA) Mitigated Negative Declaration Annual Compliance Report – **Jennifer A. Henke, M.S., Laboratory Manager**

**Background:**

On October 11, 2011, the Board of Trustees of the Coachella Valley Mosquito and Vector Control District approved a Mitigated Negative Declaration regarding District activities, specifically its Integrated Vector Management Program (Resolution 2011 – 18). Pursuant to Section 21081.6 of the Public Resources Code and the CEQA Guidelines Section 15097, a public agency is required to adopt a monitoring and reporting program for assessing and ensuring compliance with the required mitigation measures applied to a proposed project for which a mitigated negative declaration has been prepared. As stated in the Public Resources Code:

*“...the public agency shall adopt a program for monitoring or reporting on the revisions which it has required in the project and the measures it has imposed to mitigate or avoid significant environmental effects.”*

The District is required to self-monitor continuously and to complete an annual Compliance Report. The summary of the report is attached.

**Exhibits:**

- 2017 CEQA annual report executive summary

**Coachella Valley Mosquito and Vector Control District  
43-420 Trader Place, Indio, CA 92201**

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**CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)  
MITIGATED NEGATIVE DECLARATION  
2017 ANNUAL COMPLIANCE REPORT**

**BACKGROUND**

The California Environmental Quality Act (CEQA) requires public agencies to conduct an environmental review to determine the cumulative impact of their activities on the environment. The Coachella Valley Mosquito and Vector Control District (hereafter, the District) conducted an Initial Study in July 2011 to determine the cumulative effects of its Integrated Vector Management Program to all parts of the District's jurisdiction (Project). In the Initial Study, the District determined that the Project could have a significant impact on the environment that could be made not significant through mitigation. Thus, the District prepared and adopted a Mitigated Negative Declaration on October 11, 2011.

As part of its Mitigated Negative Declaration, the District, in accordance with Section 21081.6 of the Public Resources Code and the *CEQA Guidelines* Section 15097, adopted a monitoring and reporting program for assessing and ensuring compliance with the required mitigation measures applied to its Project. This is the Annual Compliance Report detailing the monitoring which took place in 2017.

The District followed the Mitigation Monitoring and Reporting Program outlined in the Mitigated Negative Declaration. The District determined what actions would indicate compliance with the Mitigation Measure. What follows are the mitigation measures listed in the Mitigated Negative Declaration, the actions indicating compliance from the Mitigation Monitoring and Reporting Program, and a summary of what occurred in 2017. Overall, the District complied with the Mitigation Monitoring and Reporting Program, ensuring that its Integrated Vector Management Program did not have significant impact on the environment.

**Mitigation Measure 1:** *The District does not conduct routine control activities within 18 designated CVMSHCP conservation areas. The District conducts surveillance and control measures within the Coachella Valley Storm water Channel and Delta, and small residential communities found within the Thousand Palms and West Deception Conservation areas.*

Action indicating compliance: The District will maintain a map of the areas that may be impacted by surveillance and control measures. The Laboratory Manager will create a report using the Mosquito Mobile information to create a record of inspections and treatments made to the Coachella Valley Storm water Channel and Delta, Thousand Palms, and West Deception Conservation Areas. A copy of this report will be available upon request.

2017 activity: The District made 210 applications of larval mosquito control products to duck clubs and Salton Sea marshes (75 sites) within the Coachella Valley Storm Water Channel and Delta. Applications were made in accordance with the District's Larval Control Procedures and the District Recommended Rates. The District also placed mosquitofish in three duck club ponds within the Coachella Valley Storm Water Channel and Delta. Applications were made to private property, in accordance with California Fish and Wildlife Code. The District made 17 applications of adulticide products to duck club and Salton Sea marshes to areas within and adjacent to the Coachella Valley Storm Water Channel and Delta. Applications were conducted according to the District's Mosquito-borne Surveillance and Emergency Response Plan using the District Recommended Rates. The District made no applications for red imported fire ant (RIFA) control within the conservation areas.

**Mitigation Measure 2:** *The District shall comply strictly with control product labels that are written to ensure that no significant impact to biological resources can occur.*

Actions indicating compliance:

- An annual refresher course organized by the Lead Supervisor to discuss products and District recommended applications will be conducted.
- The Lead Supervisor, Field Supervisors, and Lead Technicians examine the Mobile information for discrepancies. These are then reviewed with the technician by the Field Supervisors. A file of these discrepancies and the recommendation for improvement is kept by the Lead Supervisor/Operations Manager.
- Reports of non-compliance with control product labels are made to the Riverside County Agricultural Commissioner by the Lead Supervisor/Operations Manager.
- Monthly reports of product usage are made by the Lead Supervisor/Operations Manager to the Riverside County Agricultural Commissioner.

2017 activity: The District conducted training on products, including the N-Series (January 9, 2017), District recommended rates (January 20, 2017), Personal Protective Equipment (January 23, 2017), Respirator Fit Test (January 23, 2017), and product labels and Safety Data Sheets (January 12, 2017).

**Mitigation Measure 3:** *Project activities shall be highly selective in space and time, based on a detailed list of potential mosquito sources, pre-control surveillance for mosquito abundance, and threshold criteria for control applications.*

Action indicating compliance: A file will be made available for review at the front desk that will include the annual map of all known sources, the location of adult surveillance traps, the location of larval surveillance (using the mosquito inspections from the Mosquito Mobile), and the District thresholds for treatment (both larval and adult procedures).

2017 activity: Maps and thresholds are available on request.

**Mitigation Measure 4:** *The District's field technicians shall be certified by the California Department of Public Health Services as highly-trained control product applicators and required to complete frequent continuing education sessions sponsored by the District and by the Mosquito & Vector Control Association of California pursuant to State Regulations.*

Action indicating compliance: A file containing copies or scans of all technician certifications will be made and will be located at M:\CEQA. This file will include information on the continuing education sessions completed by the technicians.

2017 activity: Information on technician certification is available upon request.

**Mitigation Measure 5:** *The Project is routinely monitored for safety, efficacy, and environmental impact by the District's Supervisors and General Manager, by the Riverside County Agricultural Commissioner, and other Trustee and Responsible agencies.*

Action indicating compliance:

- The District's Supervisors and General Manager will review the annual safety report created by the Safety Officer of the District, the annual report on quality control created by the Biologist, and the annual report created by the Laboratory Manager.
- The District will keep a copy of the report made by the Riverside County Agricultural Commissioner on file.
- The District will keep a copy of the report made by the California Department of Public Health on file.

2017 activity: Reports on safety, quality control, and environmental compliance were made to the General Manager. The Vector-Borne Disease Section of the California Department of Public Health reviewed the District's Program on June 15, 2016; no recommendations were made. CDPH makes at least one inspection every two years. The District was inspected by the Riverside County Agricultural Commissioner on July 29, 2017; a copy of the report is available on request.

**Mitigation Measure 6:** *The District and the Mosquito & Vector Control Association of California will routinely fund and collaborate with researchers from the University of California and other academic institutions on research projects to evaluate activities and to ensure that practices are used with the least potential impact on biological resources consistent with operational requirements.*

Action indicating compliance: A copy of the annual budget and annual reports completed by these researchers will be available.

2017 activity: The District funded three researchers in 2017. Copies of their annual reports are available on request.

**Mitigation Measure 7:** *Project activities shall be consistent with the Riverside County General Plan's Conservation Element, and the Coachella Valley Multiple Species Habitat Conservation Plan, California and Federal Endangered Species Act and City General Plans in the Service Area.*

Action indicating compliance:

- The Laboratory Manager will review these plans and inform the District of any changes that need to be made to the Project's activities.
- The Laboratory Manager will conduct annual training of the District's employees to inform them of species that are listed as endangered.

2017 activity: The Laboratory Manager provided all field staff with training and updated manuals on Federal and State Listed Species on March 14, 2017.

**Mitigation Measure 8:** *District staff shall coordinate and consult with other responsible agencies, including the California Department of Health Services, the California Department of Fish and Game, and the Bureau of Land Management to ensure that Service Area activities do not result in significant impacts to biological resources.*

Actions indicating compliance:

- A copy of the cooperative agreement with California Department of Health Services is updated annually and available. This is coordinated by the General Manager.
- A copy of the permits awarded by the California Department of Fish and Wildlife (CDFW) is available. Permits are updated as needed by the Laboratory Manager
- The Laboratory Manager will obtain a MOU from the Bureau of Land Management if necessary.

2017 activity: When applying to the California Department of Fish and Wildlife for a permit for 2012, the District was informed that a permit was not needed to stock private water:

In California Code of Regulations, Title 14, Section 238.5 (f) the following is stated:

"In Inyo and Mono counties, and in public waters of San Bernardino, Riverside and Imperial counties, mosquitofish may not be planted without the written concurrence of the department".

No work was conducted requiring an MOU from the Bureau of Land Management. A copy of the agreement with the California Department of Health Services for 2017 is available on request.

**Mitigation Measure 9:** *The movement of All Terrain Vehicles (ATVs) shall be guided by the ground crew to avoid any damage to wildlife, if present. The use of ATVs by the District shall not have a significant effect on the environment by limiting its activities to agricultural areas such as irrigated date gardens. In the spring months on the west side of the Salton Sea, use of the ATV's shall be limited to existing dirt roads around the flooded areas of fishery ponds. The District staff shall use existing dirt roads around the fish farm ponds and shall enter only those open areas under the salt grass in the vicinity of the fish farm ponds. In the fall months the use of ATVs shall be limited to sites such as duck club ponds that are man-made.*

Actions indicating compliance:

- The Shop Clerk will maintain a record of where District staff use ATVs from the key log of the Lead Technicians.
- The Field Supervisors and Fleet Maintenance Staff train the technicians annually on the proper use of ATVs as well as the appropriate habitats in which they should be used.

2017 activity: The District used ATVs nine times during breeding season (March – June) near the shoreline or in duck clubs to examine the need for an aerial application. Use was restricted, and staff watched for signs of wildlife. Otherwise, ATV use in the spring and early summer was restricted to agricultural fields. ATVs were used in the duck clubs during the late summer, fall and winter. Staff was trained on appropriate use of ATVs on October 24, 2017.

**Mitigation Measure 10:** *The District shall use mosquitofish (*Gambusia affinis*) only in private man-made bodies of water for mosquito control – neglected pools.*

Action indicating compliance: The District Biologist will provide a report of the use and location of mosquitofish stocking.

2017 activity: Mosquitofish were stocked in neglected swimming pools, ornamental ponds, storm water structures, and duck clubs. Fish were used in man-made bodies of water for mosquito control. A map of treatments is available upon request.

**Mitigation Measure 11:** *The District shall maintain a California Department Fish and Game (CDFG) Permit for mosquitofish stocking.*

Action indicating compliance: A copy of the permit is available at the front desk.

2017 activity: See Mitigation Measure 8.

**Mitigation Measure 12:** *The District shall plant mosquitofish only in temporary man made wetlands that are covered by a CDFG permit which include Sections 19, 28, 29, 30, 31, Township 7, Range 9.*

Actions indicating compliance:

- A copy of the permit is available at the front desk.
- The District Biologist will provide a report of the use and location of mosquitofish stocking.

2017 Activity: See Mitigation Measures 8 and 10.

**Mitigation Measure 13:** *The District shall not plant mosquitofish in the following Desert Pupfish refugia ponds:*

- i. *McCallum/Simone pond and Visitor center pond or any water course at the Thousand Palms Preserve, along Thousand Palms Canyon Drive.*
- ii. *The Seep pond, the Oasis pond or the Cienega (Sonoran) pond located at the Living Desert Zoological Gardens.*
- iii. *The small pond behind the Salton Sea State Park Headquarters.*
- iv. *Any pond or watercourse located at the Dos Palmas Preserve.*

Action indicating compliance: The District Biologist will provide a report of the use and location of mosquitofish stocking.

2017 Activity: See Mitigation Measure 10.

**Mitigation Measure 14:** *When mosquito numbers exceed District control thresholds and other control methods would be ineffective, contrary to permits or other environmental protections, or otherwise inappropriate, the District shall utilize only those specific insecticides that are registered for use in California and that possess a current EPA label.*

Action indicating compliance: A copy of the current pesticide labels will be available.

2017 Activity: Current product labels are posted at [www.cvmvcd.org](http://www.cvmvcd.org).

**Mitigation Measure 15:** *The District shall maintain current and updated maps and other information from the California Department of Fish and Game Natural Diversity Data Base, the Coachella Valley Multiple Species Habitat Conservation Plan, the Bighorn Sheep Recovery Plan and similar sources on the location of Special Status Species and designated Natural Communities in the Service Area.*

Actions indicating compliance:

- The Laboratory Manager will review these plans and inform the District of any changes that need to be made to the Project's activities.
- Copies of these plans are located at the front desk.
- Information from these maps is used by the IT department to maintain digital records of these maps within ArcGIS.

2017 Activity: The District uses the maps available from the Coachella Valley Association of Governments (CVAG). All maps are up-to-date.

**Mitigation Measure 16:** *The District shall coordinate its activities with approved Habitat Conservation Plans and Species Recovery Plans.*

Actions indicating compliance:

- The Laboratory Manager will review these plans and inform the District of any changes that need to be made to the Project's activities.
- The Laboratory Manager will conduct annual training of the District's employees to inform them of species that are listed as endangered.

2017 Activity: See Mitigation Measure 7.

**Mitigation Measure 17:** *The District shall conduct all its activities consistent with the requirements of the California Department of Fish and Game, the Regional Water Quality Control Board, the US Fish and Wildlife Service and the US Army Corps of Engineers.*

Actions indicating compliance:

- Copies of permits that have been obtained from CDFW and from the State and the Regional Water Quality Control Boards are available at the front desk. These permits are updated as needed by the Laboratory Manager.
- The District will develop a plan for dealing with endangered species that will be submitted to the US Fish and Wildlife Service.
- The District currently does not have any activities that require input from the US Army Corps of Engineers.

2017 Activity: The District maintained the updated State and Regional Water Quality Control Board permits. The District has not developed a plan for dealing with endangered species, but it is involved in the American Mosquito Control Association which is creating a Federal position on vector control and endangered species. The District did file a document outlining its mosquito control efforts on property that is intended to be habitat for desert pupfish, *Cyprinidon macularius*, with US Fish and Wildlife Service in 2013 and continues to discuss the location of the pupfish with US and CA Fish and Wildlife Services. The District assisted the CA Fish and Wildlife Service with its population surveys for the desert pupfish, *Cyprinidon macularius*, in 2015 and did not find mosquitoes in areas where the pupfish were present.

**Mitigation Measure 18:** *The District shall maintain policies and programs for the continuing education of field personnel to ensure minimization of specific mosquito control activities and/or the use of alternative mosquito control methods which might impact Special Status Species or designated Natural Communities.*

Actions indicating compliance:

- The District will maintain records of in-house training sessions for staff as well as records of CEUs completed by staff. The District will maintain records of conferences attended by the staff.

2017 Activity: See Mitigation Measures 4 and 17. The freshwater and coastal marshlands are home to the desert pupfish, *Cyprinidon macularius*. According to the Recovery Plan, desert pupfish are omnivorous on algae, plants, invertebrates, and detritus. Desert pupfish prefer slow flowing water with some open vegetation, which is not a source of larval mosquitoes. Thus, there is no reason that mosquito control products would be used in habitats with desert pupfish. Even if they were used, the products are not toxic to fish.



## Coachella Valley Mosquito and Vector Control District

### Staff Report

March 13, 2018

**Agenda Item:** Informational Item

Staff report from:

- Vector Control Joint Powers Agency (VCJPA) Annual Workshop, February 22-23, 2018, in Santa Cruz, CA

#### **Report:**

VCJPA is a member-driven joint powers authority formed to jointly fund and develop workers comp and liability coverage programs for mosquito abatement and vector control districts within the state of California. It is composed of thirty-two member agencies.

As a member of the VCJPA the District has the following workers comp and liability coverages

#### **Pooled Liability Programs**

Pooled Liability Program – liability coverage up to \$1 million

- Most frequent claims for VCJPA members involve property damage
- Most costly claims for VCJPA members since the 2013/14 program year
  - \$199,438 for employment practices liability
  - \$110,474 for property damage and bodily injury
  - \$105,184 for property damage

Excess Liability Coverage – liability coverage excess of \$1 million to \$14 million

- Historically VCJPA has only 1 claim that pierced the \$1 million layer.

Excess Employment Practices Liability Coverage – up to \$2 million aggregate each member

- This coverage is activated for employment practice claims that exceed \$25,000 for VCJPA members

VCJPA pooled liability program had a retrospective adjustment refund to member agencies in 2017 for a total of \$530,289 for the 2012/13 program year.

#### **Pooled Workers Compensation Program**

Pooled Workers Comp Program – coverage up to \$500,000 per occurrence; excess coverage up to \$5 million is also covered pooled with other JPA through Local Agency Worker's Compensation Excess JPA.

- Most losses in this program for member agencies come from Field Operations staff.

- In total for 2017 there were 78 workers comp claims from all member agencies of which 66 or 85% were from field operations staff injuries.

VJCPA Worker's Comp program had a retrospective adjustment refund to member agencies in 2017 for a total of \$1,111,282.00

The District is also part of a pooled property program, auto physical damage program, business travel accident program, and crime insurance program that covers loss of monies and securities due to dishonest acts of employees with coverage up to 5 million.

The workshop also covered the financial health of the organization. VCJPAs net position for fiscal year ending June 2017 was \$5,650,958 which was a 2% increase over fiscal year ending 2016. As of December 31, 2017 total cash and investments equaled \$29,602,417 which was a 5% increase over the previous year.

There was also a training entitled, "Leading challenging employees through challenging situations to create great districts environments." This training focused on:

- Managing challenging workplace behaviors
- Creating a positive work environment
- Diffusion and de-escalation techniques
- Intergenerational communication in the workplace.

**ATTENDEES:**

*Jeremy Wittie, M.S., General Manager*

	<p style="text-align: center;"><b>Coachella Valley Mosquito and Vector Control District</b></p> <p style="text-align: center;"><b>Staff Report</b></p>	<p style="text-align: center;"><b>March 13, 2018</b></p>
<p><b>Agenda Item:</b> Informational Item</p> <p>Staff report from:</p> <ul style="list-style-type: none"> <li>• AMCA Annual Conference, February 26 – March 2, 2018 in Kansas City, MO</li> </ul>		
<p><b>Report:</b></p> <p>The annual meeting of the American Mosquito Control Association (AMCA) is an opportunity for staff to meet with leading mosquito workers from North America and other countries. This year's plenary session focused on the response to hurricanes in Texas and Florida, serving as a good reminder of items to consider in our plans for response to emergencies.</p> <p><i>Kim Hung, Ph.D.</i> was invited to speak in the pesticide resistance and management symposium on the work completed at the District examining the efficacy of our adulticide applications.</p> <p><i>Jennifer Henke</i> was invited to speak in the Bridging the Gap between Research and Operations symposium, highlighting the success of the District's research program. Jennifer spoke in the operations symposium on the aerial larvicide applications conducted for control of invasive <i>Aedes</i> mosquitoes. Jennifer also spoke in the public education and engagement symposium on the work completed by the District evaluating whether the information provided as part of the Clean-Up Campaign and the Fight the Bite Block Party resulted in residents cleaning up their yards.</p> <p>This year the AMCA Annual Conference hosted sessions on:</p> <ul style="list-style-type: none"> <li>• Surveillance and control techniques for <i>Aedes aegypti</i></li> <li>• Arbovirus detection using Loop-Mediated Isothermal Amplification (LAMP)</li> <li>• Public health entomology research at undergraduate institutions</li> <li>• Unmanned aerial systems in mosquito control</li> <li>• Larvicide and adulticide resistance in mosquitoes</li> <li>• Integrated tick management</li> <li>• Mosquito sterile insect technique</li> <li>• Bridging the gap between research and operations</li> </ul> <p><b>ATTENDEES:</b>  <i>Jennifer Henke</i>, Laboratory Manager  <i>Kim Hung</i>, Vector Ecologist  <i>Roberta Dieckmann</i>, Field Supervisor</p>		



## Coachella Valley Mosquito and Vector Control District

### Staff Report

March 13, 2018

#### Agenda Item: Informational Item

Staff report from:

- MVCAC Legislative Day, March 6-7, 2018

#### Report:

MVCAC offered a Legislative Day Training event in the afternoon of March 6. The training was organized and led by Public Information Manager Jill Oviatt who is also the MVCAC PR Committee Chair and MVCAC's lobbying firm KP Public Affairs. The objective of the training was to coach MVCAC Lobby Day attendees on how to hold short, focused, goal oriented meetings with their Legislators on Lobby day. About 25 people attended the training which included message development and legislative meeting role play exercises.

On March 7, 41 attendees representing 21 mosquito and vector control districts from across California attended MVCAC Lobby Day. At 8AM a short overview of MVCAC talking points was given by the MVCAC's Legislative Advocate Ed Manning. At 8:30AM participants left for meetings at the Capitol building. One of the main goals of the legislative meetings was to inform legislator about and garner support for a bill and a budgetary request sponsored by the MVCAC.

1. AB 2892 (Quirk) Mosquito Surveillance and Communicable Disease Prevention Act of 2018 (information attached)
2. A state budget ask of \$500,000 to support CalSurv, a statewide surveillance database and further development of modeling and predictive capabilities of the program.

Trustees Doug Hassett and Mike Monroe, General Manager Jeremy Wittie, and Public Information Manager Jill Oviatt attended the training and met with state legislators from the Coachella Valley:

- Assemblyman Eduardo Garcia and staff, 56th District
- Assemblyman Chad Mayes, 42nd District
- Senator Jeff Stone and staff, 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 2018 public education campaign. All meetings were extremely productive. Legislators were supportive of both our statewide and local efforts. Assemblymembers Garcia and Mayes, who have not yet visited the District accepted invitations to schedule tours for them in the future to see first-hand what mosquito control looks like in action.

The District legislative day team also met with 10 other Southern California legislators and/or their staff on behalf of MVCAC and their local vector control agencies that were not able to attend lobby day.

**ATTENDEES:**

- Doug Hassett, Trustee*
- Michael Monroe, Trustee*
- Jeremy Wittie, District Manager*
- Jill Oviatt, Public Information Manager*

**Photos and Social Media Posts of the Day**



**Assemblymember Eduardo Garcia** added 2 new photos — with Michael Monroe.  
19 hrs · Coachella, CA · 🌐

Like as Your Page

It was great to meet with Coachella Valley Mosquito & Vector Control District. Since my time in local government, we've worked hand in hand to help maintain and improve public health within our region. If you look closely you'll see the plaque we were humorously reminiscing over. Offices don't often proudly display little crawling critters but we made an exception for this leadership award they presented me. This unique item is a delightful reminder of our strides to #FightTheBite, prevent the spread of viruses and improve our #AD56Community's quality of life by mitigating health threats. Keep up the good work! #GarciaOnTheGo

PSA- Don't forget to dump and drain that standing water in your yard. For more safety info/tips please visit <http://www.cvmvcd.org/>



**CVmosquito** @CV\_mosquito · 20h

Great to be in Sacramento for #mvac legislative day. Thank you to all the CA legislators and staff who met with us and showed their support for mosquito control @MVCAC1



You, MVCAC, Asm. Chad Mayes and Jill Oviatt





## Supporting Mosquito Surveillance and Research: AB 2892 & Budget

**Problem:** Since 2011, mosquito control professionals in California have been working to slow the spread of two invasive mosquito species, *Aedes aegypti* and *Aedes albopictus*. These species are significant public health concerns as they can transmit tropical viruses such as Zika, dengue, and chikungunya. In addition to their potential of spreading deadly diseases, they are more difficult to control than many native species, leading mosquito control agencies to spend considerable resources in keeping their communities healthy.

At the same time, California continues to combat West Nile and St. Louis encephalitis viruses. The state reported more than 500 people infected with West Nile virus in 2017, more than a 10% increase from 2016. There are no vaccines for West Nile, St. Louis encephalitis, or Zika viruses, which are costly to treat and can have long-term health and financial consequences. Public health officials are considering what increased levels of West Nile or the potential local transmission of Zika will mean to local health care delivery systems. A study of the 2005 West Nile outbreak season in Sacramento County calculated total costs at more than \$18,000 per case.

With these existing and emerging threats of disease spread by mosquitoes in California, it is imperative that the legislature recognizes the risk and supports the tools needed by mosquito control agencies to prevent the spread of virus-carrying mosquitoes – both native and invasive – to the state.

**A History of State Support:** From 1972 to 2008, California funded mosquito research. This funding was provided to the University of California, which absorbed the funding during the recession. Since then, the state has provided no support for mosquito research. In the meantime, the University of California at Davis established the California Surveillance Gateway, known as CalSurv, which provides centralized storage of data collection, analysis, and storage for the presence of mosquitoes and mosquito-borne diseases throughout the state. UC Davis, the California Department of Public Health (CDPH), and local mosquito control agencies work together to provide real-time reporting and visualization of potentially dangerous mosquitoes. The capabilities of this system continue to be enhanced, including the utilization of control operations data to help develop more efficient responses to disease outbreaks. However, there is no dedicated funding for this valuable tool.

### **AB 2892 (QUIRK): MOSQUITO SURVEILLANCE AND COMMUNICABLE DISEASE PREVENTION ACT OF 2018**

**The Mosquito and Vector Control Association of California is proud to sponsor AB 2892 that would officially recognize the preventive surveillance system and database CalSurv, which tracks and predicts where disease-spreading mosquitoes might emerge.**

Continued

**STATE BUDGET**

MVCAC is working to provide state support for a statewide mosquito and disease prevention program that specifically would:

- Work in tandem with AB 2892 (Quirk) to identify the CalSurv Program in statute as the statewide surveillance database to track and predict the emergence of invasive species and mosquito-borne diseases and to facilitate efficient response
- Establish a reasonable funding level through the California Department of Public Health to support and expand CalSurv as a research and surveillance tool

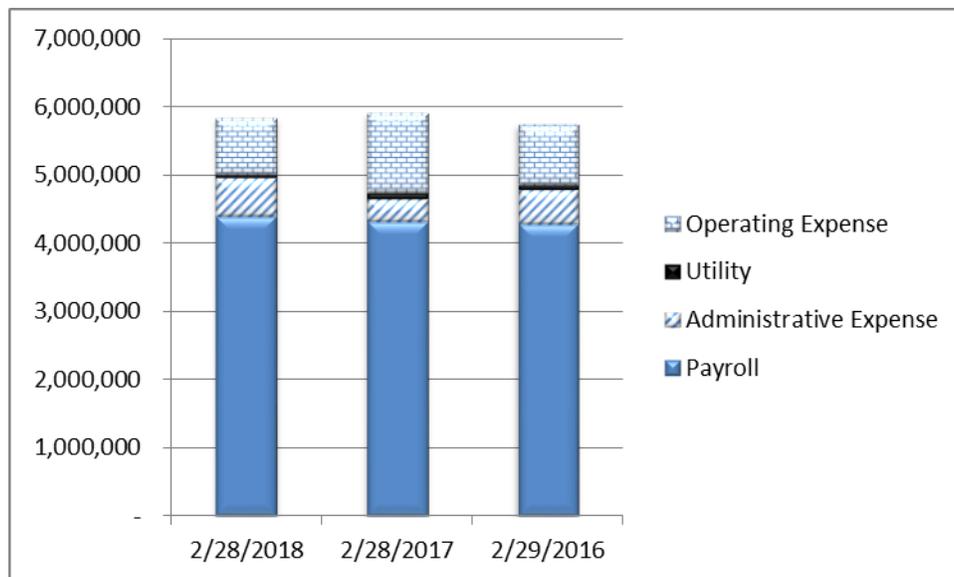
**Surveillance Can Help Combat the Spread of Disease:** It is time for the state to support CalSurv and reinvest in public health. Mosquito control professionals need the tools to proactively manage both local and invasive species through reliably funded and enhanced surveillance offered by using statewide data. The Mosquito and Vector Control Association of California urges your support of this important bill and measure.

## FINANCE

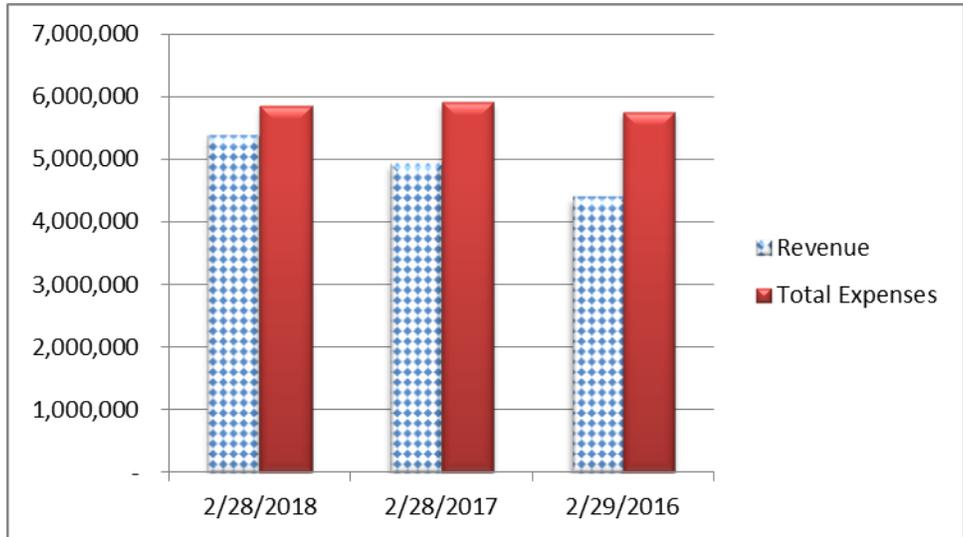
The financial reports show the balance sheet, receipts, and the revenue and expenditure reports for the month ending February 28, 2018. The revenue and expenditure report shows that the operating budget expenditure for July 1, 2017 to February 28, 2018 is \$5,842,528; total revenue is \$5,375,187 resulting in excess revenue over (under) expenditure for the year to February 28, 2018 of \$(467,341).

### THREE YEAR FINANCIALS

	<b>2/28/2018</b>	<b>2/28/2017</b>	<b>2/29/2016</b>
<b>Total Revenue</b>	<b>5,375,187</b>	<b>4,919,067</b>	<b>4,382,050</b>
Expenses			
Payroll	4,407,180	4,323,996	4,290,383
Administrative Expense	560,475	349,643	507,778
Utility	60,857	76,771	72,077
Operating Expense	814,015	1,160,333	880,226
<b>Total Expenses</b>	<b>5,842,528</b>	<b>5,910,743</b>	<b>5,750,464</b>
<b>Profit (Loss)</b>	<b>(467,341)</b>	<b>(991,676)</b>	<b>(1,368,414)</b>
Capital Expenses	-	496	51,413



**Figure 1 Three Year Expenditure**



**Figure 2 Three Year Revenue & Expenditure**

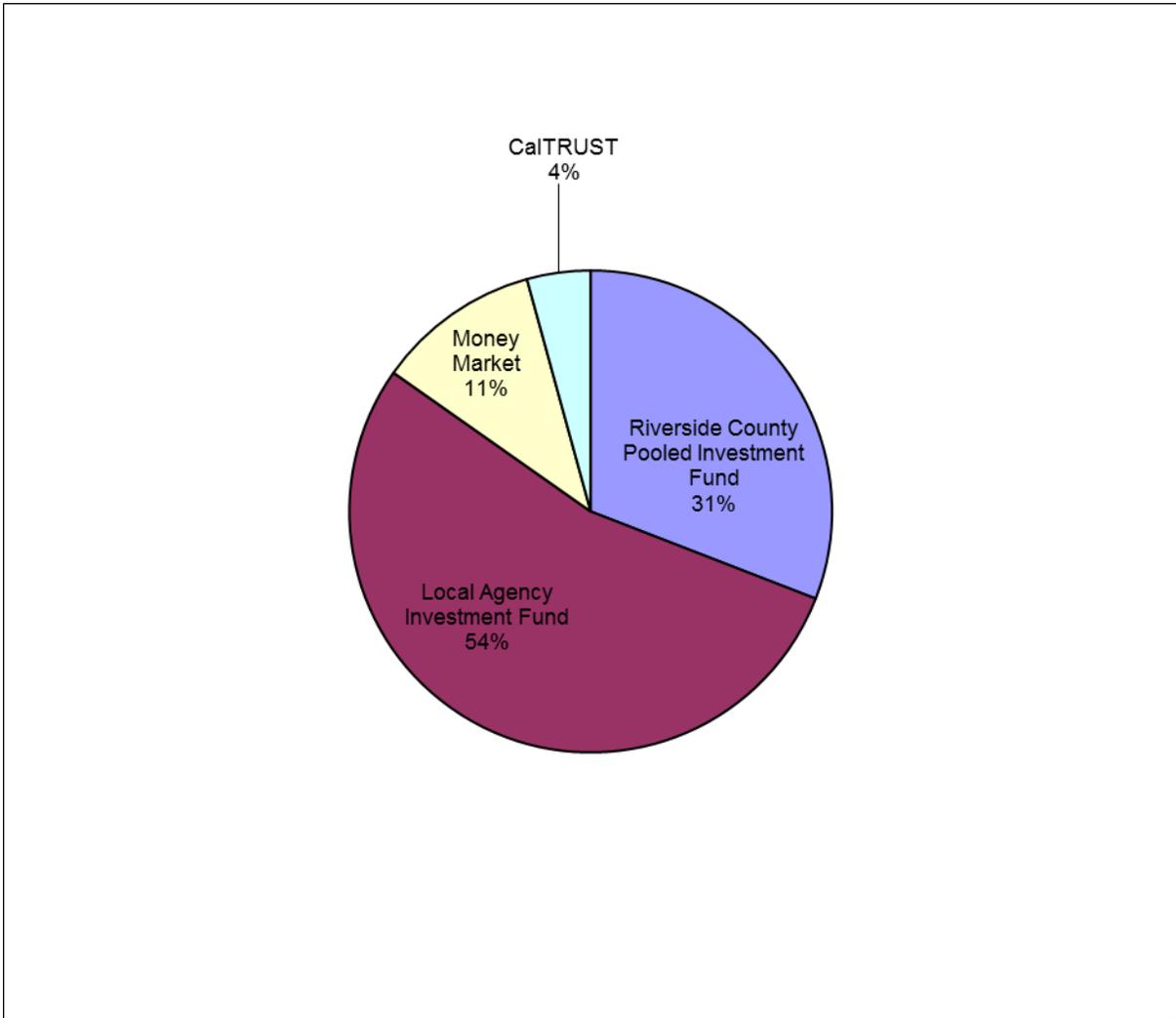
**THREE YEAR CASH BALANCE**

<b>CASH BALANCES</b>	<b>2/28/2018</b>	<b>2/28/2017</b>	<b>2/29/2016</b>
Investment Balance	11,547,590	11,519,793	11,688,536
Checking Accounting	11,965	6,217	5,088
Payroll Account	96,115	71,599	53,339
Petty Cash	2,000	2,000	2,000
<b>TOTAL CASH BALANCES</b>	<b>11,657,670</b>	<b>11,599,609</b>	<b>11,748,963</b>

**DISTRICT INVESTMENT PORTFOLIO 2/28/2018**

The District’s investment fund balance for the period ending February 28, 2018 is \$11,547,590. The portfolio composition is shown in the pie chart. Local Agency Investment Fund (LAIF) accounts for 54% of the District’s investments; the Riverside County Pooled Investment Fund is 31% of the total.

The LAIF yield for the end of January was 1.41% and the Riverside County Pooled Investment Fund was 1.47%; this gives an overall weighted yield for District investments of 1.30%.



**Figure 3 Investment Portfolio 2-28-18**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2011	0.66	0.67	0.66	0.64	0.65	0.61	0.60	0.56	0.56	0.54	0.53	0.52
2012	0.53	0.51	0.50	0.50	0.47	0.46	0.47	0.43	0.43	0.41	0.39	0.34
2013	0.33	0.34	0.33	0.32	0.32	0.32	0.32	0.32	0.31	0.30	0.32	0.29
2014	0.27	0.30	0.33	0.31	0.30	0.30	0.34	0.37	0.35	0.37	0.35	0.39
2015	0.37	0.40	0.36	0.35	0.37	0.39	0.41	0.41	0.43	0.43	0.44	0.46
2016	0.50	0.55	0.57	0.56	0.54	0.61	0.57	0.63	0.64	0.63	0.69	0.73
2017	0.74	0.75	0.81	0.91	0.92	0.99	1.04	1.00	1.07	1.10	1.13	1.20
2018	1.22	1.30										

**Figure 4 District Investments Weighted Yield**

## HUMAN RESOURCES

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### RECRUITMENT

Recruitment is continuing for the position of Seasonal Vector Control Operator.

### NEW EMPLOYEE

*Nicolas Tremblay* began work on February 5 in the position of Vector Control Technician Trainee. Nicolas received a Bachelor's Degree in Agriculture & Environmental Science from McGill University in Montreal and has worked as a Seasonal employee for the District for one season.

The following Seasonal employees began work in February:

<i>Alfonso Corona</i>	<i>Antonio Montenegro</i>
<i>Jesus Cruz</i>	<i>Matthew Platler</i>
<i>Marisa Kelling</i>	<i>Guillermo Rojo, Jr.</i>
<i>Albert Martinez</i>	<i>Jacob Tarango</i>
<i>Juan Melgarejo</i>	<i>Jose Zavala</i>

### TRAINING

All District employees completed ALICE (Alert, Lockdown, Inform, Counter, Evacuate) Training online by December 31. ALICE provides preparation and a plan on how to more proactively handle the threat of an aggressive intruder or active shooter event. The District provided this training to employees through a Blended Learning Approach. The approach combines online e-Learning with onsite group instructor led training. The instructor led training will take place next month.

Driver Safety Training and Behind-the-Wheel Commentary Driving was held January 17 and 19, at the District. The trainings were presented by Tom Kline and Chris Williams of VCJPA.

- All District employees participated in the classroom style Driver Safety training which focused on providing district drivers with the knowledge and techniques to avoid traffic accidents. It also worked to influence and challenge district drivers to change their driving behaviors so they would consistently choose to drive professionally. To respond correctly to each driving situation, it is necessary for the driver to recognize the hazard, understand the defense, and act correctly in time.
- Field Staff participated in the Behind-the-Wheel Commentary Driving. This type of one-to-one field training involved employees driving district vehicles while being observed by the trainer who rode along as a passenger. The object of the training was to improve the district employee's ability to anticipate the hazards that could affect their driving safety. The training also helped them to be more introspective about their driving habits.

### EMPLOYEE RECOGNITION

Congratulations to Arturo Gutierrez for receiving the District's Above & Beyond Award for voluntarily taking a sequential trap to the MVCAC meeting he was attending and showing another district's employee how it works and took it apart to show the inner design.

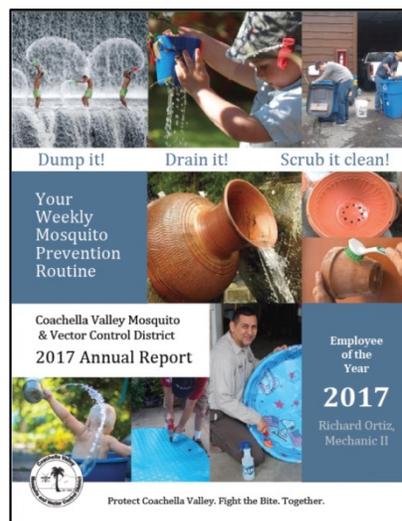
## PUBLIC OUTREACH DEPARTMENT

**Publications:** The District published its 2017 Annual Report and distributed printed copies to District Trustees, Coachella Valley government officials and stakeholders, and MVCAC stakeholders. The report is also posted on the District website.

**Public Outreach Events:** While mosquitoes are usually the focus of our outreach events, we started the year with a presentation to about 20 Shadow Hills residents in Indio with a “Best Practices Guide to Scorpion Removal and Prevention.” Vector Ecologist *Kim Hung* presented the guide, developed by herself and Public Information Manager *Jill Oviatt*, to help Shadow Hills residents rid their neighborhood of the invasive scorpion species, the Bark Scorpion, which has become established in the community over the past several years. A “Scorpion Hunt” is being organized in April to demonstrate the best practices of physical removal. Public Outreach Coordinator, *Edgar Castro*, presented an update on *Aedes* mosquitoes control and prevention to “Jewish Family Service” members in Cathedral City as part of their “Let’s do Lunch Program.” The District attended two resource fairs so far in 2018, the “Caliente Springs Health and Resource Fair” in Desert Hot Springs with about 75 visitors to our booth and the “Migrant Education Health Fair” in Indio with about 50 visitors.

We hosted a booth and display at the **Riverside County Fair and Date Festival**, where we launched our 2018 campaign “Dump it. Drain it. Scrub it Clean. Your Weekly Mosquito Prevention Routine.” About 2,300 people stopped by to learn about the work we do and how to reduce standing water and potential breeding sources for mosquitoes in their backyards. The display included an interactive backyard mosquito sources activity and a “Just Throw it Away!” game. Nineteen staff worked the fair over 10 days.

**Working with Schools:** Biologists *Christopher Cavanaugh* and *Gerald Chuzel* participated as judges in the Desert Sands, Coachella Valley, and Palm Springs Unified School Districts annual science fairs. They awarded a 2018 Best Entomologist for each school District. Edgar presented the awards at each of the School District ceremonies. A Coachella Valley High School student started a 10-week job shadow program at the District on Tuesdays learning the science behind mosquito and vector control. Biologist *Melissa Snelling* and Public Outreach Coordinator *Edgar Castro* attended a career day fair at Coachella Valley High School.



*Vector Control Technician Trainee Nicolas Tremblay demonstrates a mosquito trap.*



*Public Outreach Coordinator, Edgar Castro (right) presents the Best Entomology Award.*

## SURVEILLANCE AND QUALITY CONTROL MANAGEMENT PROGRAM

The vector-borne statewide surveillance program was established in 1969. The District began encephalitis surveillance in the early 1980s and the surveillance program has been in place since 1990. The District program includes the monitoring of vector and vector borne diseases and the implementation, evaluation and analysis of integrated vector management strategies in the Coachella Valley. Information generated by this department is used by District Operations staff to ensure control measures are efficiently implemented in the field.

### DISEASE SURVEILLANCE (AS OF 3/5/2018)

**California** – Last year West Nile virus activity in people was the most similar to other moderate WNV years such as 2012 and 2016, but not as bad as years like 2004, 2014, and 2015. From January to February 2018, three birds have tested positive for West Nile virus (San Mateo and Santa Clara counties). These birds were probably infected in 2017. St Louis encephalitis virus was detected in more counties in 2017 than in 2016 (14 compared to 8), but there were approximately the same number of positive mosquito samples. There were 4 human cases in California. There were 8 cases in the United States.

**Coachella Valley** – Testing mosquitoes for arboviruses is being conducted at the District. Thus far in 2018 there have not been any mosquito samples that have tested positive for WNV or any other virus. Viruses in mosquitoes are usually first detected beginning in June, although earlier viruses detections have been made in the District during previous years.

### ENDEMIC MOSQUITO SURVEILLANCE

#### CO<sub>2</sub> TRAPS

During the normal mosquito season (March through mid-November) the District Laboratory staff maintains 109 CO<sub>2</sub> (carbon dioxide) traps through the District to monitor the mosquito populations. Extra emphasis is placed on mosquito species that are known to be vectors of virus that cause human disease. These vector species in the Coachella Valley are *Culex tarsalis* and *Cx. quinquefasciatus*. In the rural areas *Cx tarsalis* is the most abundant vector species. CO<sub>2</sub> traps release carbon dioxide to attract mosquitoes looking to obtain a blood meal and are very effective at collecting *Culex* mosquitoes. The average number of vectors captured per trap per night is monitored and used to guide operational activities of the District. The number of mosquitoes collected in half-month periods is compared to the previous 5-year average to determine anomalies in mosquito abundance. The surveillance program mosquito abundance is broadly reported in two areas – Urban and Rural. These Urban and Rural areas are also broken down into smaller zones to look at more specific regions of the Districts when planning mosquito control activities.

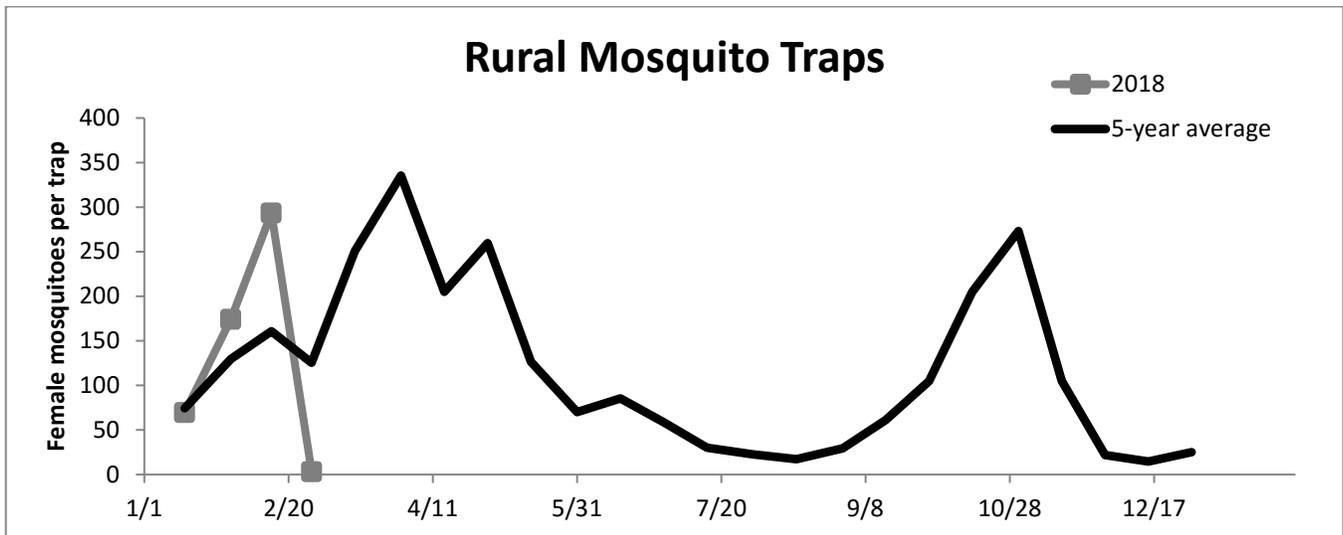
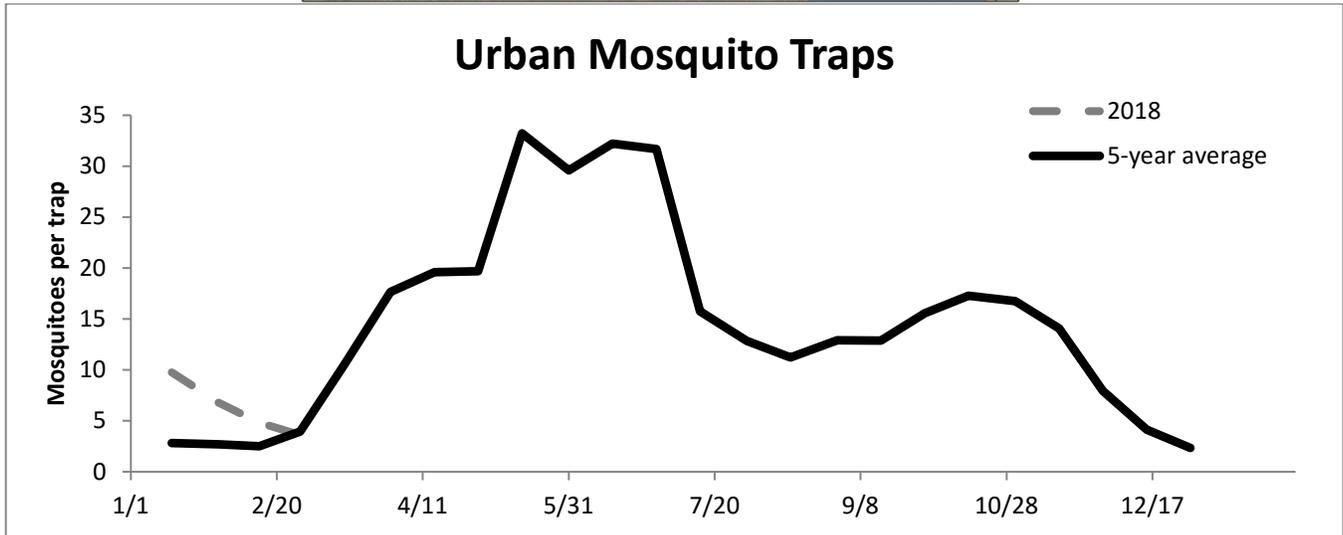


#### Gravid Traps

Gravid traps use water infused with organic matter such as alfalfa to attract mosquitoes looking to lay eggs. These traps are especially effective at collecting *Cx quinquefasciatus* mosquitoes, which are the primary disease vector in the urban areas of the District. However, other mosquito species, including *Cx tarsalis* are not attracted to these traps. Because of their use in targeting *Cx quinquefasciatus* mosquitoes these traps are placed in urban areas of Coachella Valley. The District currently uses gravid traps at 53 locations during the normal mosquito season.



# MOSQUITO SURVEILLANCE ZONES



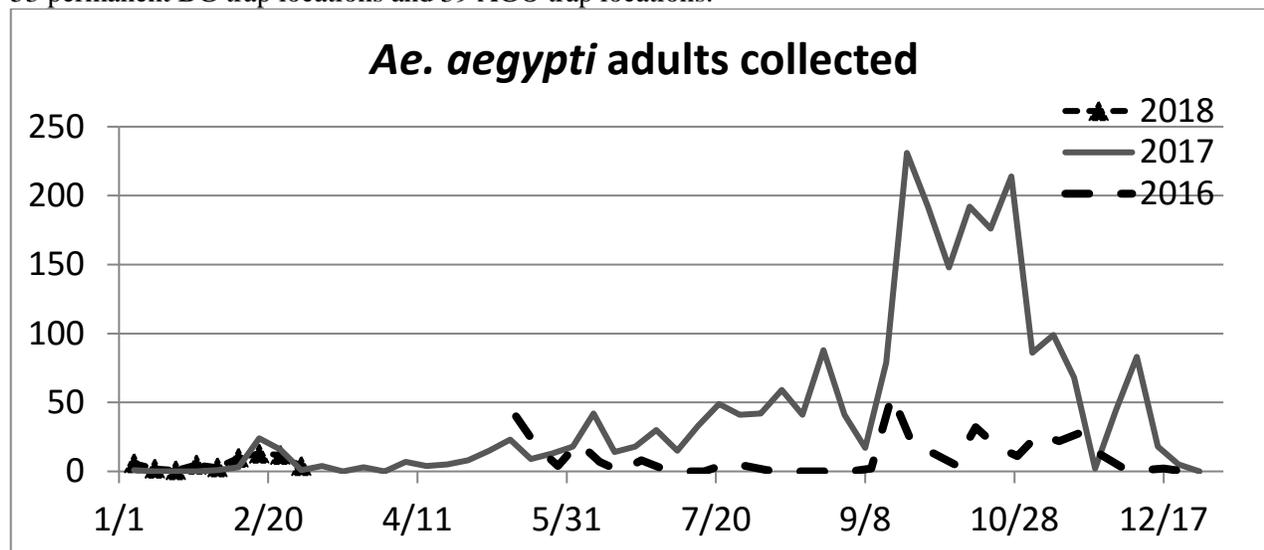
## EXOTIC MOSQUITO SURVEILLANCE

*Aedes aegypti* has been detected in 8 cities: Coachella (2 separate regions), Cathedral City, Indio, Palm Springs, La Quinta, Palm Desert, Mecca, and Indian Wells. BG-Sentinel traps are deployed weekly at each region to detect and monitor for adult mosquitoes.

Autocidal Gravid Traps (AGO) are being used to provide an additional detection method for *Ae. aegypti*. AGO traps target the egg-laying adults and have been shown to be sensitive in areas where populations are low. AGO traps uses an attractive bait made of week-old hay infusion to draw in gravid female mosquitoes. The mosquitoes are collected using a sticky trap and the trap and bait are changed weekly. We have 53 permanent BG trap locations and 39 AGO trap locations.



Left: BG Sentinel trap. Right: Autocidal Gravid Trap (AGO).



## BIOLOGICAL CONTROL

### MOSQUITOFISH (*Gambusia affinis*)

As of February 26, 2018, the District produced 14,000 mosquitofish which is fewer than what was produced in the first two months of 2017. About 16,650 fish were stocked in neglected swimming pools, private ponds, detention basins, and animal water troughs.

**EVALUATION OF FISH AT DUCK CLUBS.** Mosquitofish were used as a treatment at four duck club ponds in October 2017. Although the fish do not survive the summer in shallow ponds, their presence in the fall controls and deters mosquito breeding. Mosquitofish were stocked at 3,000 fish per acre. We evaluated their effectiveness by comparing the number of treatments made to these ponds with ponds of comparable size that did not have fish. Ponds with fish needed fewer treatments to the entire pond to control mosquito breeding, which resulted in a reduction of chemical product used of 50%.

## ENVIRONMENTAL COMPLIANCE

*NPDES.* The District submitted its Annual Report for 2017 to the State Water Resources Control Board and Colorado River Regional Water Quality Control Board on March 1 for compliance with the Clean Water Act's National Pollutant Discharge Elimination System Permit. The District also submitted its Annual Report to the Environmental Protection Agency for activities conducted on tribal property on February 14.

*CALIFORNIA ENVIRONMENTAL QUALITY ACT.* The District filed its Annual Report for 2017 in-house on February 1 as required by its Mitigated Negative Declaration for its Integrated Vector Management (IVM) Program. Overall, the District complied with the Mitigation Monitoring and Reporting Program, designed to ensure that the IVM Program does not have a significant impact on the environment.

*PESTICIDE ENVIRONMENTAL STEWARDSHIP PROGRAM.* The District filed its PESP report on its work completed being a steward of the environment while responsibly using pesticides on January 30.

### **DEPARTMENT WORK**

At the Mosquito and Vector Control Association of California Annual Conference in January, members of the department gave four presentations. Laboratory Assistant II Arturo Gutierrez presented a poster on the making and use of AGO traps. Biologist Gerald Chuzel presented a poster on fire ant bait treatments. Laboratory Manager Jennifer Henke presented on the history of St. Louis encephalitis virus in the Coachella Valley. Vector Ecologist Kim Hung presented her dissertation research at the conference and received the William C. Reeves New Investigator Award.

At the American Mosquito Control Association Conference in February, Kim Hung led a workshop for the Young Professionals group on the Advanced Techniques in Excel. She also presented in the Pesticide Resistance Management symposium. Jennifer Henke presented on the aerial larvicide applications for control of *Aedes aegypti*, the surveys conducted to measure the impacts of our campaigns in neighborhoods, and our District's funded research program. Jennifer met with the Science and Technology Committee and led the poster judging competition.

# Mosquito Habitats Treated

# Operations

1/1/2018 to 1/31/2018 Report



## 27 Agriculture APPLICATIONS

Applications	FORMULATION: DRY	Acreage
2	Bti	1.00
3	Methoprene	8.01
10	Spinosad	8.88
Applications	FORMULATION: LIQUID	Acreage
3	Methoprene	0.51
9	Spinosad	5.58



## 44 Duck Club APPLICATIONS

Applications	FORMULATION: DRY	Acreage
11	Methoprene	67.46
25	Spinosad	52.23
Applications	FORMULATION: LIQUID	Acreage
8	Spinosad	12.56



## 552 Invasive Aedes APPLICATIONS

Applications	FORMULATION: DRY	Acreage
163	Bti	1.08
Applications	FORMULATION: LIQUID	Acreage
164	Barrier	1.08
223	Fogging	64.14
2	Spinosad	0.01



## 771 Residential APPLICATIONS

Applications	FORMULATION: DRY	Acreage
7	Bs	0.02
1	Bti	0.00
164	Methoprene	0.48
374	Spinosad	2.59
Applications	FORMULATION: LIQUID	Acreage
34	(AE) surfactant	0.38
3	Bti	0.01
47	Methoprene	2.08
141	Spinosad	2.12



## 10 Salton Sea Marshes APPLICATIONS

Applications	FORMULATION: DRY	Acreage
7	Methoprene	189.45
3	Spinosad	5.23

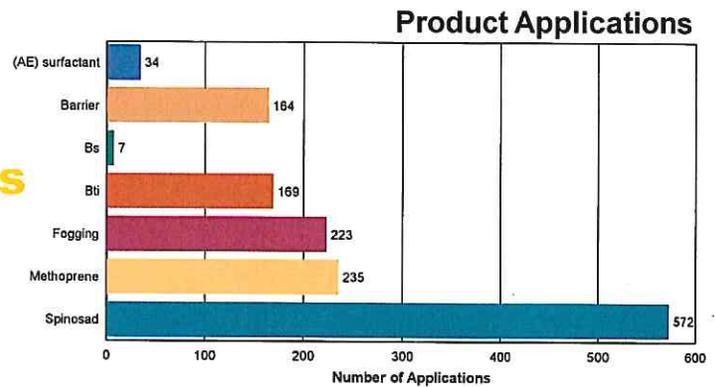
**(AE) surfactant** - reduces surface tension of water making it difficult for mosquito larvae and pupae to attach and causes them to drown

**BS (*Bacillus sphaericus*)** - soil-dwelling bacterium, used as a biological pesticide that during sporulation produce crystals that have insecticidal action when ingested by mosquito larvae

**BTI (*Bacillus thuringiensis israelensis*)** - soil-dwelling bacterium, commonly used as a biological pesticide that during sporulation produce crystal proteins that have insecticidal action when ingested by mosquito larvae

**Methoprene** - used as a biological pesticide that mimics natural juvenile hormone of insects and acts as a growth regulator. Juvenile hormone must be absent from mosquito pupa to molt to an adult. Mosquito pupae treated with Methoprene will be unable to successfully mature from pupae to the adult mosquito

**Spinosad** - a naturally-occurring soil-dwelling bacterium, *Saccharopholyspora spinosa*



## Product Breakdown

		Total		
		Count	Acreage	Cost
FORMULATION: DRY	Total	770	336.43	\$77,050.33
	Bs	7	0.02	\$25.24
	Bti	166	2.08	\$49.94
	Methoprene	185	265.40	\$71,667.76
	Spinosad	412	68.93	\$5,307.39
	Total	634	88.47	\$9,393.87
FORMULATION: LIQUID	(AE) surfactant	34	0.38	\$15.06
	Barrier	164	1.08	\$8,958.14
	Bti	3	0.01	\$0.12
	Fogging	223	64.14	\$62.71
	Methoprene	50	2.59	\$21.13
	Spinosad	160	20.27	\$336.71
	Total	634	88.47	\$9,393.87

# Operations

1/1/2018 to 1/31/2018 Report



## 41 Country Club

### APPLICATIONS

384.04 ACRES TREATED  
41 BROADCAST TREATMENTS



## 3 Golf Course

### APPLICATIONS

78.46 ACRES TREATED  
3 BROADCAST TREATMENTS



## 58 Homeowner

### APPLICATIONS

7.29 ACRES TREATED  
58 BROADCAST TREATMENTS



## 2 Park

### APPLICATIONS

20,037.60 SQFT TREATED  
2 BROADCAST TREATMENTS



## 27 School

### APPLICATIONS

153.23 ACRES TREATED  
27 BROADCAST TREATMENTS

## Red Imported Fire Ant



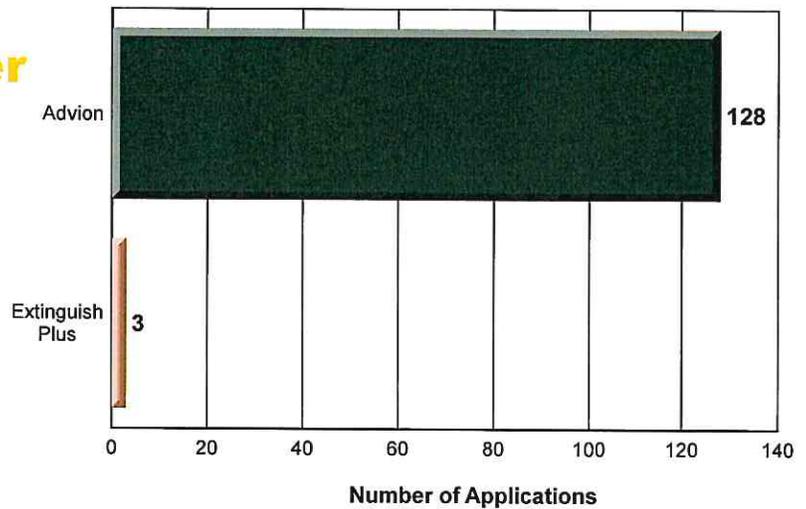
### Scientific classification

Kingdom: Animalia  
Phylum: Arthropoda  
Class: Insecta  
Order: Hymenoptera  
Family: Formicidae  
Genus: *Solenopsis*  
Species: *invicta*

### Binomial name

*Solenopsis invicta*  
(Buren, 1972)

## Product Applications



## Product Breakdown

		Advion	Extinguish Plus
Total	Acreage	545.02	78.46
	Amount (lbs.)	817.58	117.69
	Cost	\$ 7,734.31	\$ 757.92

ADVION® fire ant bait may be used to control imported fire ants, bigheaded ants\* and pavement ants\* in noncrop/nongrazed areas such as residential lawns, golf courses, recreational areas, industrial sites and other similar areas where imported fire ants, bigheaded ants and pavement ants are found. Rainfall or irrigation within 2 to 3 hours after application may reduce the effectiveness of ADVION® fire ant bait and a repeat application within 7 days may be necessary to achieve the desired level of control.

EXTINGUISH® PLUS is highly attractive to imported and native fire ants and other ants. Worker ants carry the bait into the mound as food for the colony. The ants will then begin feeding the bait to the rest of the colony. They eat it and feed it to the queen. EXTINGUISH® PLUS is a unique product containing a slow acting insecticide and an Insect Growth Regulator (IGR). This two-way action ensures complete control of fire ants. The IGR prevents rebound of the colony, while the insecticide insures rapid demise of the colony. EXTINGUISH® PLUS will start to kill ants after they feed on the bait. The colony will begin to decline in about a week, after the bait has been brought back to the mound. The mound is destroyed when the queen dies.

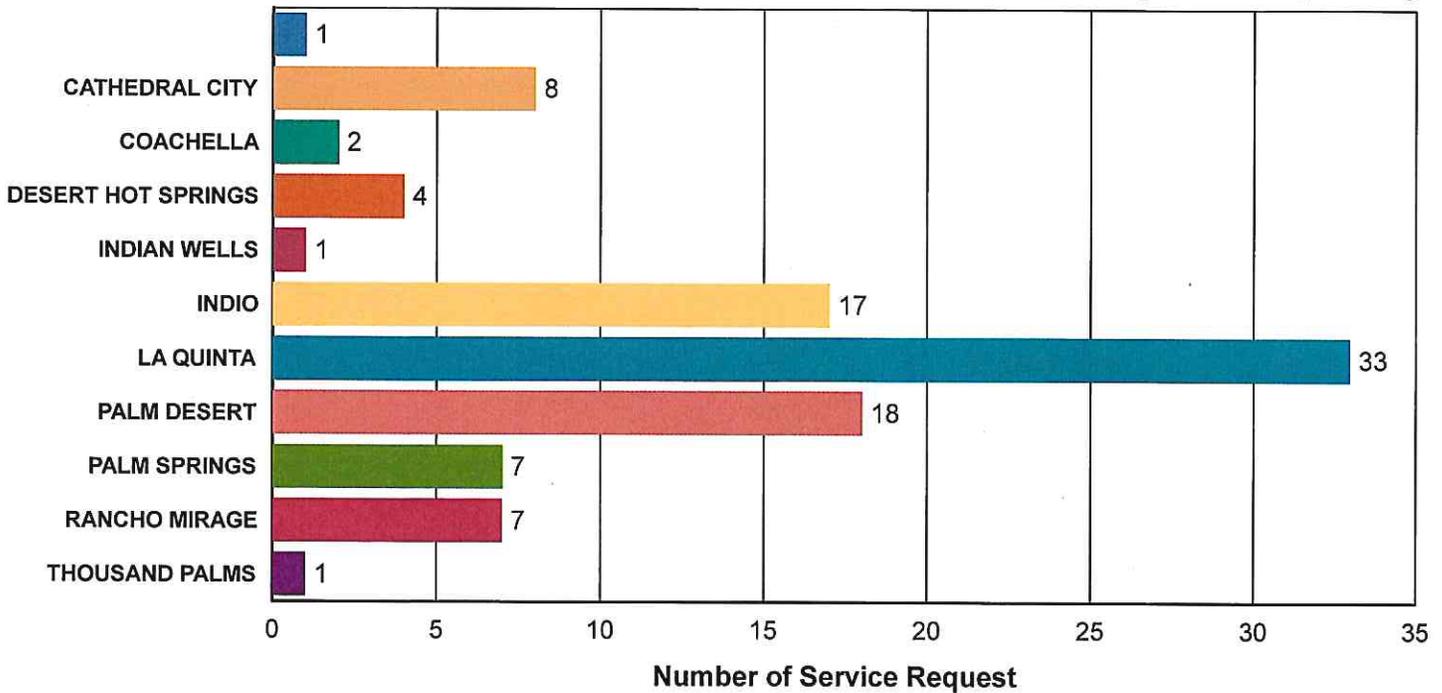
# Service Request Operations

1/1/2018 to 1/31/2018 Report

## Service Request Types

	TOTAL	STANDING WATER	NEGLECTED POOL	FLY/EYE GNATS	MOSQUITO	RODENTS	BEEES	RIFA
TOTAL	99	3	10	1	3	2	4	76
	1	0	0	0	0	0	0	1
CATHEDRAL CITY	8	1	1	0	0	0	0	6
COACHELLA	2	0	0	0	1	0	0	1
DESERT HOT SPRINGS	4	0	1	0	0	0	3	0
INDIAN WELLS	1	0	0	0	0	0	0	1
INDIO	17	0	2	0	1	0	0	14
LA QUINTA	33	0	2	1	1	1	1	27
PALM DESERT	18	1	1	0	0	1	0	15
PALM SPRINGS	7	0	2	0	0	0	0	5
RANCHO MIRAGE	7	0	1	0	0	0	0	6
THOUSAND PALMS	1	1	0	0	0	0	0	0

## Service Request by City



# Mosquito Habitats Treated

# Operations

2/1/2018 to 2/28/2018 Report



## 42 Agriculture APPLICATIONS

Applications	FORMULATION: DRY	Acreage
6	Bs/Bti	3.08
3	Bti	4.30
5	Methoprene	4.50
14	Spinosad	3.58
Applications	FORMULATION: LIQUID	Acreage
9	Methoprene	2.20
5	Spinosad	0.95



## 27 Duck Club APPLICATIONS

Applications	FORMULATION: DRY	Acreage
1	Bs/Bti	0.35
5	Bti	10.82
10	Spinosad	12.92
Applications	FORMULATION: LIQUID	Acreage
5	Bti	2.46
4	Methoprene	2.08
2	Spinosad	0.27



## 483 Invasive Aedes APPLICATIONS

Applications	FORMULATION: DRY	Acreage
146	Bti	1.04
Applications	FORMULATION: LIQUID	Acreage
146	Barrier	1.04
191	Fogging	#####



## 748 Residential APPLICATIONS

Applications	FORMULATION: DRY	Acreage
4	Bs	0.00
5	Bti	0.01
259	Methoprene	0.86
371	Spinosad	1.40
Applications	FORMULATION: LIQUID	Acreage
28	(AE) surfactant	0.09
1	Barrier	0.10
32	Methoprene	0.48
48	Spinosad	1.68



## 6 Salton Sea Marshes APPLICATIONS

Applications	FORMULATION: DRY	Acreage
3	Methoprene	2.68
1	Spinosad	0.75
Applications	FORMULATION: LIQUID	Acreage
1	Methoprene	0.01
1	Spinosad	0.02

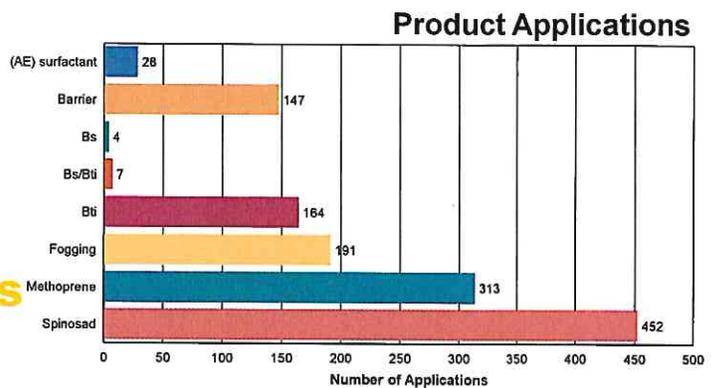
**(AE) surfactant** - reduces surface tension of water making it difficult for mosquito larvae and pupae to attach and causes them to drown

**BS (*Bacillus sphaericus*)** - soil-dwelling bacterium, used as a biological pesticide that during sporulation produce crystals that have insecticidal action when ingested by mosquito larvae

**BTI (*Bacillus thuringiensis israelensis*)** - soil-dwelling bacterium, commonly used as a biological pesticide that during sporulation produce crystal proteins that have insecticidal action when ingested by mosquito larvae

**Methoprene** - used as a biological pesticide that mimics natural juvenile hormone of insects and acts as a growth regulator. Juvenile hormone must be absent from mosquito pupa to molt to an adult. Mosquito pupae treated with Methoprene will be unable to successfully mature from pupae to the adult mosquito

**Spinosad** - a naturally-occurring soil-dwelling bacterium, *Saccharopolyspora spinosa*



## Product Breakdown

		Total		
		Count	Acreage	Cost
FORMULATION: DRY	<b>Total</b>	833	46.30	\$5,226.63
	<b>Bs</b>	4	0.00	\$7.48
	<b>Bs/Bti</b>	7	3.43	\$351.42
	<b>Bti</b>	159	16.16	\$410.11
	<b>Methoprene</b>	267	8.05	\$2,482.73
	<b>Spinosad</b>	396	18.65	\$1,974.89
	<b>Total</b>	473	43,582.09	\$50,986.45
FORMULATION: LIQUID	<b>(AE) surfactant</b>	28	0.09	\$3.61
	<b>Barrier</b>	147	1.14	\$8,256.08
	<b>Bti</b>	5	2.46	\$11.53
	<b>Fogging</b>	191	43,570.71	\$42,591.71
	<b>Methoprene</b>	46	4.77	\$39.12
	<b>Spinosad</b>	56	2.92	\$84.42
	<b>Total</b>	56	2.92	\$84.42

# Operations

2/1/2018 to 2/28/2018 Report



## 25 Country Club

### APPLICATIONS

169.91 ACRES TREATED  
22 BROADCAST TREATMENTS  
3 SPOT TREATMENTS



## 18 Golf Course

### APPLICATIONS

1,808.03 ACRES TREATED  
18 BROADCAST TREATMENTS



## 71 Homeowner

### APPLICATIONS

18.81 ACRES TREATED  
70 BROADCAST TREATMENTS  
1 SPOT TREATMENTS



## 3 School

### APPLICATIONS

23.04 ACRES TREATED  
3 BROADCAST TREATMENTS

### Red Imported Fire Ant



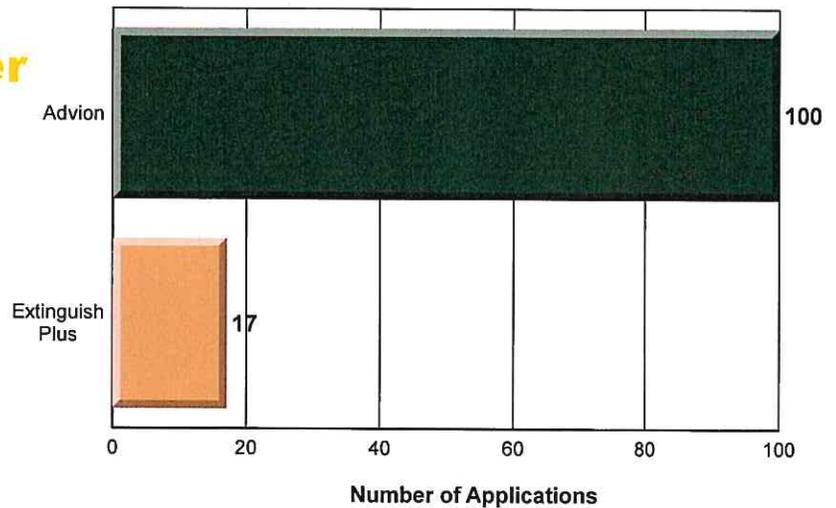
### Scientific classification

Kingdom: Animalia  
Phylum: Arthropoda  
Class: Insecta  
Order: Hymenoptera  
Family: Formicidae  
Genus: *Solenopsis*  
Species: *invicta*

### Binomial name

*Solenopsis invicta*  
(Buren, 1972)

## Product Applications



## Product Breakdown

		Advion	Extinguish Plus
<b>Total</b>	<b>Acreage</b>	220.63	1799.16
	<b>Amount (lbs.)</b>	331.00	2,698.75
	<b>Cost</b>	\$ 3,131.28	\$ 17,379.92

ADVION® fire ant bait may be used to control imported fire ants, bigheaded ants\* and pavement ants\* in noncrop/nongrazed areas such as residential lawns, golf courses, recreational areas, industrial sites and other similar areas where imported fire ants, bigheaded ants and pavement ants are found. Rainfall or irrigation within 2 to 3 hours after application may reduce the effectiveness of ADVION® fire ant bait and a repeat application within 7 days may be necessary to achieve the desired level of control.

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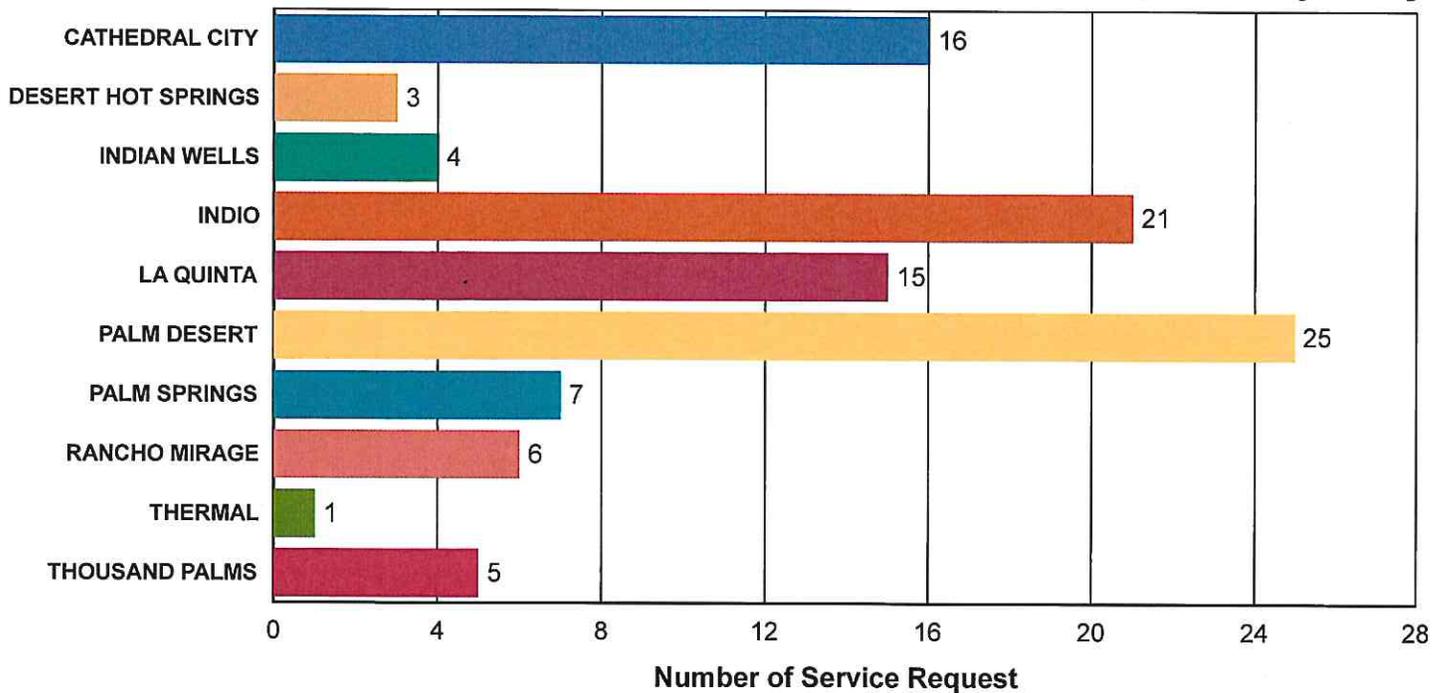
# Service Request Operations

2/1/2018 to 2/28/2018 Report

## Service Request Types

	TOTAL	STANDING WATER	NEGLECTED POOL	FLY/EYE GNATS	MOSQUITO	RODENTS	BEEES	RIFA	OTHER
TOTAL	103	1	8	4	6	3	1	79	1
CATHEDRAL CITY	16	0	1	0	1	0	0	14	0
DESERT HOT SPRINGS	3	0	0	1	0	0	1	1	0
INDIAN WELLS	4	0	1	0	0	0	0	3	0
INDIO	21	0	0	0	1	0	0	19	1
LA QUINTA	15	0	3	1	0	0	0	11	0
PALM DESERT	25	0	2	1	1	2	0	19	0
PALM SPRINGS	7	1	1	0	1	0	0	4	0
RANCHO MIRAGE	6	0	0	0	0	0	0	6	0
THERMAL	1	0	0	0	1	0	0	0	0
THOUSAND PALMS	5	0	0	1	1	1	0	2	0

## Service Request by City



January

**FIREWALL INTRUSION EVENTS**

**Packets Blocked by Firewall**

60



**Origin of Blocked Packets by Firewall**

TOP 5 Countries

	BR	20
	US	13
	TW	8
	SC	5
	FR	3



**EMAIL SPAM EVENTS**

**Blocked Spam Mail by Filter**

4426



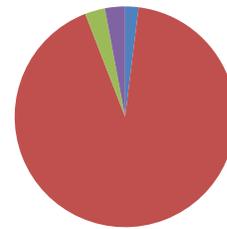
**Malware Blocked by Filter**

1



**NETWORK EVENTS**

**Network Uptime Monitoring**



- Diagnose
- Uptime
- Firewall
- Phone

Over the last month suffered several bugs in the OPS Application, each bug was resolved in business hours

**UPDATES**

**Windows Operating System Updates**

*Powershell Command: The Get-Hotfix cmdlet gets hotfixes (also called updates) that have been installed on either the local computer (or on specified remote computers) by Windows Update, Microsoft Update, or Windows Server Update Services; the cmdlet also gets hotfixes or updates that have been installed manually by users.*

4	4	8
26 Windows 7 Machines	11 Windows 10 Machines	10 Windows 2012r2

**Application System Updates**

Upgrading TimeClockPlus 6.0 Management Application to TimeClockPlus 7.0	January 2018
Installing New XG Firewall	February 2018
Update Technician Zone Boundaries	February 2018
Update Mobile Inspection Form	February 2018

**HARDWARE**

**Toughbooks Hardware Replacements**

Purchased Laptop Inverters   LIN Cigarette Lighter Adapter CF-LNDDC120	January 2018
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**SECURITY**

**Meltdown and Spectre**

Meltdown and Spectre exploit critical vulnerabilities in modern processors. These hardware vulnerabilities allow programs to steal data which is currently processed on the computer. While programs are typically not permitted to read data from other programs, a malicious program can exploit Meltdown and Spectre to get hold of secrets stored in the memory of other running programs. This might include your passwords stored in a password manager or browser, your personal photos, emails, instant messages and even business-critical documents.

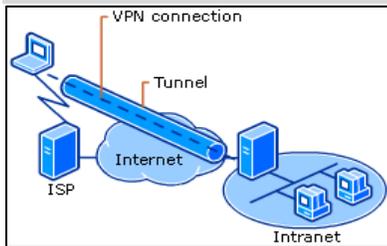
**Action Item: Install patches issued by operating systems, virtual machine vendors and firmware updates from chip vendors.**

**WEBSITE**

**NPGDIGITAL - Retargeting Pixel**

Uploaded a retargeting pixel, a cookie-based technology, that uses Javascript code to anonymously 'follow' our 5K audience on our website for Public Outreach.

**VIRTUAL PRIVATE NETWORK (VPN) CONNECTIONS**



66  
Connections

43 Hours Connected  
to Network

**MOBILE INSPECTION APPLICATION**

Properties digitized or re-digitized for the Mobile Inspection Application

8  
December

3  
January

Sands RV Resort

Montecito HOA

Skyborne

(1) ORG-Palms

Sunrise Plaza

Sands RV Golf Course

Whitehawk Palm Desert

Hidden Sands CC Golf Course

Terra Vita HOA

(2) Row Crops

**FLEET SERVICES**

**Vehicle Status Update:** All seventeen (17) Chevrolet Pickup Trucks are on the road. Approval to purchase seventeen (17) Chevrolet Pickup Trucks was granted at the July 11, 2017 Board of Trustee Meeting. UNIT# 49 had a minor door accident and has been repaired.

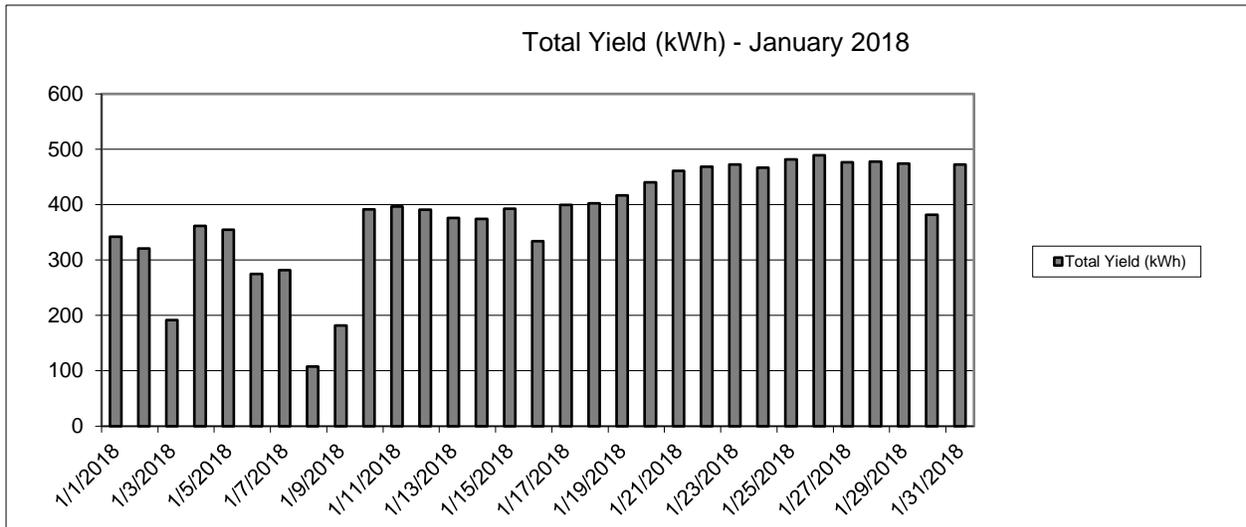
**Workhorse Update:** At September’s 2017 Board of Trustee Meeting, approval to purchase five (5) Cushman Hauler 800x Gas Powered Carts was approved. The District received all Cushman Haulers in December.

**ATV Update:** At October’s 2017 Board of Trustee Meeting, approval to purchase one (1) ATV Utility Vehicle was approved. The ATV equipped with On-Demand True All Wheel Drive (AWD) and Electronic Power Steering has been received.

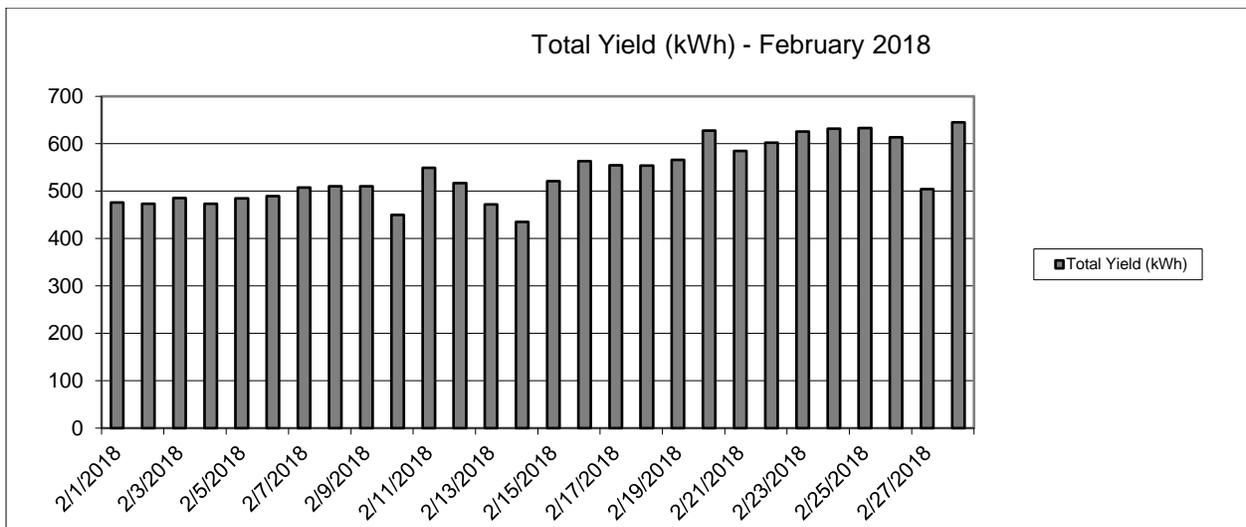


## FACILITIES

**SOLAR PANELS** – The following charts show the total yield from the solar panels during January and February, and a comparison between the power output per hour for January 31, 2018 and February 28, 2018.



**Figure 1 January 2018 Daily Solar Yield**



**Figure 2 February 2018 Daily Solar Yield**

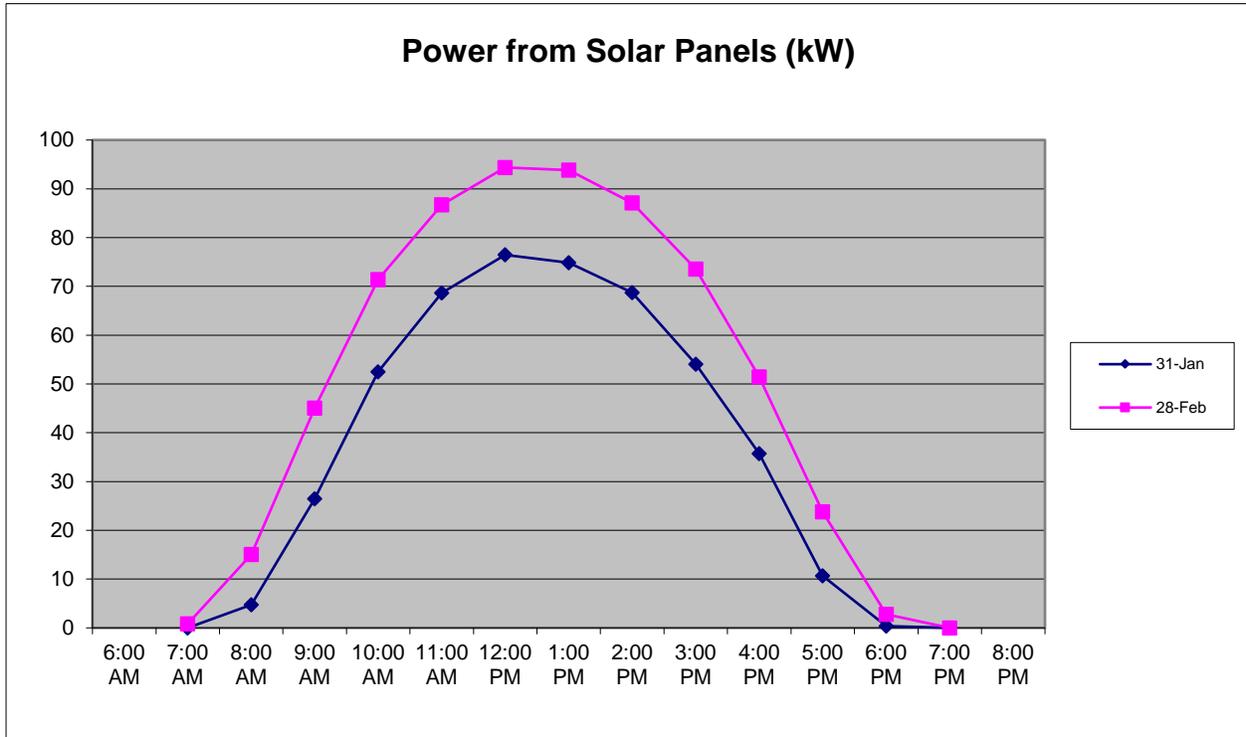
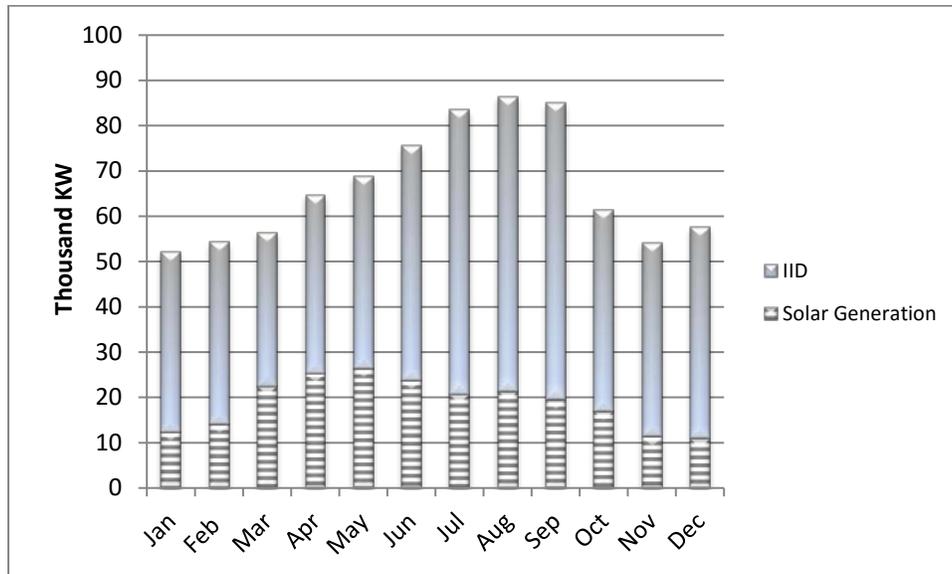


Figure 3 Hourly Solar Yield for January 31, 2018 and February 28, 2018

### Energy Consumption



For 2017, 28% of the Districts energy consumption percentage is provided by solar the rest is provided by IID.



**Coachella Valley Mosquito and Vector  
Control District**

**March 13, 2018**

**Staff Report**

**Agenda Item:** Items of General Consent

Approval to renew annual maintenance contract with ESRI in an amount not to exceed \$19,000.00, from Fund #7675.01.210, Computer and Network Systems Maintenance Contracts – **Edward Prendez, Information Systems Manager**

**Background:**

The maintenance contract includes:

Product	Maintenance	Start Date	End Date	Term	Price
ArcGIS Desktop Advanced Concurrent Use	Primary Maintenance	4/22/2015	04/21/2016	12 Months	\$3,000
ArcGIS Desktop Standard Concurrent Use	Primary Maintenance	4/22/2015	04/21/2016	12 Months	\$1,500
ArcGIS Desktop Standard Concurrent Use	Secondary Maintenance	4/22/2015	04/21/2016	12 Months	\$1,200
ArcGIS Desktop Basic Concurrent	Primary Maintenance	4/22/2015	04/21/2016	12 Months	\$700
ArcGIS Desktop Basic Concurrent	Secondary Maintenance	4/22/2015	04/21/2016	12 Months	\$1,000
ArcGIS Server Advanced Enterprise	Up to Four Cores Maintenance	4/22/2015	04/21/2016	12 Months	\$10,000
Sub Total					\$17,400.00
Estimated Sales Tax					\$784.00
Total					\$18,184.00

The contract period runs from April to April, the financial calendar is July to June. This item will **be a prepaid expenditure** and is budgeted. For FY 2017-2018 the expense will be \$4,750.00 from budget line # 7675.01.210 – Computer and Network Systems Maintenance Contracts.

**Staff Recommendation:**

Approve purchase of annual maintenance contract from ESRI at a cost not to exceed \$19,000.00.

**Fiscal Impact:**

FY2017-18 <i>Amended Budget</i> <b>7675.01.210</b>	Current Available Funds	Proposed Expense From Current FY	Remaining Available Funds
<b>\$51,000</b>	<b>\$23,793</b>	<b>\$4,750.00</b>	<b>\$19,043</b>



**Coachella Valley Mosquito and Vector  
Control District**

**Staff Report**

**March 13, 2018**

**Agenda Item:** Items of General Consent

Approval of Resolution 2018-05 designating the week of April 15-21, 2018, as Mosquito Awareness Week – **Jill Oviatt, MCDM, Public Information Manager**

**Background:**

The District has been responding to the threat posed by West Nile virus (WNV) since 2003 when it was detected in Imperial County, and later years spread through California. In addition, Saint Louis encephalitis virus returned to the Valley in 2015 and has been steadily detected in Valley mosquitoes since then. In May 2016, the Valley was confronted by a new threat with the detection of the invasive mosquito species, the *Aedes aegypti*, which has the potential to transmit serious viruses such as chikungunya, dengue, and Zika. Passing of this resolution helps to inform and educate the public as to the current health threat of existing and emerging diseases transmitted by mosquitoes, what they can do to prevent mosquito habitats, and assures the public of the District's dedication to our mission and role in creating environmentally sound vector control.

**Staff Recommendation:**

- Staff recommends the acceptance and adoption of Resolution 2018-05.

**Fiscal Impact:**

- N/A

## RESOLUTION NO. 2018-05

### A RESOLUTION OF THE BOARD OF TRUSTEES OF THE COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT DECLARING APRIL 15-21, 2018, MOSQUITO AWARENESS WEEK

**WHEREAS**, the Coachella Valley Mosquito and Vector Control District (“District”) was established in 1928 as an independent special district by the Riverside County Board of Supervisors; and

**WHEREAS**, the mission of the District is to reduce the risk of disease transmission by mosquitoes and other vectors for the protection of residents and visitors of the Coachella Valley; and

**WHEREAS**, the District recognizes that West Nile virus is a mosquito-borne disease that can result in debilitating cases of meningitis and encephalitis and death to humans, horses, avian species, and other wildlife, and that a safe and environmentally sound procedure needs to be used in the control of mosquitoes; and

**WHEREAS**, the State Department of Public Health and the Centers for Disease Control and Prevention predict West Nile virus will, as it has previously, again pose a grave public health threat in California in 2018; and

**WHEREAS**, adequately funded mosquito and vector control, disease surveillance and public awareness programs are the best way to prevent outbreaks of West Nile virus and other diseases borne by mosquitoes and other vectors; and

**WHEREAS**, educational programs have been developed among schools, civic groups, private industry, and government agencies in order to help the public understand how to protect themselves from West Nile virus by staying indoors when mosquitoes are most active at dawn and dusk, wearing pants and long-sleeved shirts, using repellents containing DEET, eliminating standing water that can support mosquito breeding, and alerting the local vector control district residents about the presence of significant mosquito infestations; and

**WHEREAS**, “Mosquito Awareness Week” will increase the public’s awareness which can result in reduced production of mosquitoes and other vectors on private, commercial, and public lands by responsible parties, reduction of the bites of mosquitoes and other vectors when the risk of West Nile virus and other disease transmission is high, detection of human cases of mosquito and vector-borne diseases that may otherwise be misdiagnosed due to insufficient knowledge of the transmission of West Nile virus and lack of appropriate laboratory testing, and the formation of mosquito or vector control agencies where needed; and

**WHEREAS**, the California State Legislature and the Mosquito and Vector Control Association of California have designated the week of April 15 through April 21, 2018, as “Mosquito Awareness Week” in the State of California.

**NOW, THEREFORE**, be it resolved by the Board of Trustees of the Coachella Valley Mosquito and Vector Control District that:

**Section 1. Recitals.**

The Recitals set forth above are true and correct.

**Section 2. Declaration of Mosquito Awareness Week.**

The Week of April 15-21, 2018, be declared as Mosquito Awareness Week.

**Section 3. Severability.**

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 4. Repeal of Conflicting Provisions.**

All the provisions heretofore adopted by the District or the Board of Trustees that are in conflict with the provisions of this Resolution are hereby repealed.

**Section 5. Effective Date.**

This Resolution shall take effect upon its adoption.

**Section 6. 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.

**[REMAINDER OF THIS PAGE INTENTIONALLY LEFT BLANK]**

**PASSED, ADOPTED AND APPROVED, this 13th day of March, 2018.**

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**Shelley Kaplan, President  
Board of Trustees**

**ATTEST:**

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**Crystal G. Moreno, Clerk of the Board**

**APPROVED AS TO FORM:**

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**M. Katherine Jenson, General Counsel**

**REVIEWED:**

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**Jeremy Wittie, MS, General Manager**



**Coachella Valley Mosquito and Vector  
Control District**

**March 13, 2018**

**Staff Report**

**Agenda Item:** Items of General Consent

Approval to contract with Aerial Services for aerial reconnaissance services of the Coachella Valley's urban areas for neglected water features, in the amount not to exceed \$18,500.00, from Fund #7575.01.210, Aerial Surveillance – **Edward Prendez, Information Technology Manager**

**Background:**

Neglected water features can become breeding sources for mosquitoes that can potentially transmit West Nile Virus, a serious, life-altering, and even fatal disease. The District is taking a proactive approach to this problem by contracting with aerial service providers, who utilize digital photography and global positioning system (GPS) coordinates, to identify and mark neglected water features in the Coachella Valley.

Aerial Services has provided the District with simple to use datasets in a variety of formats which allow District Staff to quickly identify unknown breeding sources. The dataset created by Aerial Services are delivered on time and are accessible over the Internet via their File Transfer Protocol (FTP) Server. The FTP Server provides the IT/GIS Department with easy-to-use method of transferring the large number of files to begin reviewing and distributing to the Operations Department.

**Staff Recommendation:**

Staff recommends entering into a professional service agreement for aerial reconnaissance services of the Coachella Valley's urban areas for neglected water features, in the amount not to exceed \$18,500.00.

**Fiscal Impact:**

FY2017-18 <i>Amended Budget</i> <b>7575.01.210</b>	Current Available Funds	Proposed Expense	Remaining Available Funds
<b>\$22,000.00</b>	<b>\$22,000.00</b>	<b>\$18,500.00</b>	<b>\$3,500.00</b>



**Coachella Valley Mosquito and Vector  
Control District**

**March 13, 2018**

**Staff Report**

**Agenda Item:** Items of General Consent

Approval to extend agreement with Fedak & Brown for audit services for fiscal years ending June 30, 2018, 2019 and 2020 – **David l’Anson, Administrative Finance Manager**

**Background:**

State law requires special districts to annually publish a complete set of financial statements in conformity with generally accepted accounting principles (GAAP) and audited in accordance with generally accepted auditing standards by a firm of certified public accountants. In 2013 the District issued RFP for auditing services, Charles Fedak & Co were selected. In 2015 the firm became Fedak and Brown. For fiscal year ending June 30 2016 Chris Brown, CPA CGMA became the audit partner, prior to that Charles Fedak and Paul Kaymark were the auditors. The proposal includes auditing services up to June 30, 2020 which will be the fifth year for Chris Brown which will then require an auditor partner rotation or for District to change auditor firm.

The cost for auditing services are:

FYE June 30, 2018	FYE June 30, 2019	FYE June 30, 2020
\$20,800	\$21,225	\$21,650

These costs are budgeted annually, and are lower than the prior auditor firm.

**Staff Recommendation:**

Staff recommends to extend agreement with Fedak & Brown for audit services for fiscal years ending June 30, 2018, 2019 and 2020

**Fiscal Impact:**

FY2017-18 <i>Amended Budget</i> <b>6095.01.200</b>	Current Available Funds	Proposed Expense	Remaining Available Funds
<b>\$50,000.00</b>	<b>\$38,163</b>	<b>\$20,800.00</b>	<b>\$17,363</b>