



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, November 13, 2018
5:00 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. **Oath of Office**
4. **Roll Call**
5. **Motion to Excuse Absences**
6. **Confirmation of Agenda**
7. **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.

8. **Closed Session**
 - A. **Closed Session:** Public Employee Appointment, Title: District Legal Counsel pursuant to Government Code Section 54957 – **Shelley Kaplan, President of the Board**

9. **Presentation**
 - Audit report presentation of Fiscal Year 2017/2018 – **Fedak & Brown, Auditor, and David l’Anson, Administrative Finance Manager**

10. **Board Reports**
 - A. President’s Report – **President Kaplan**
 - Executive Committee **(Pg.6)**

 - B. Finance Committee – **Treasurer Weightman**
 - Finance Committee Minutes **(Pg.8)**

11. **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.

12. Minutes for October 9, 2018, Board Meeting **(Pg.11)**

13. Correspondence **(Pg.15)**

14. Approval of Expenditures for October 10-31, 2018, and November 1 -13, 2018 **(Pg.19)**

15. Informational Items:
 - Treasurer to Approve Release of Payment to Vendors for December **(Pg. XX)**
 - District Travel **(Pg.29)**
Staff reports from:
 - 48th Annual SOVE Conference, October 7-11, 2018, Tenaya Lodge, Yosemite National Park, California. **(Pg. 30)**
 - CASQA, October 15-17, 2018 in Riverside, CA, **(Pg. 31)**
 - MVCAC Fall Meeting, November 1-2, 2018 in Palm Springs, CA **(Pg. 32)**

16. Department Reports **(Pg. 33)**

17. Discussion and/or approval of Fiscal Year 2018/19 research proposals in an amount not to exceed \$150,000.00 from Fund #8510.01.600.000, Research Projects *Budgeted; Funds Available* – **Jennifer A. Henke, M.S., Laboratory Manager (Pg. 54)**

- G. Approval of Resolution 2018-17 providing a gift certificate to employees for work performed late November through early December, 2018, in a total collective amount for all certificates not to exceed \$2,760.00, from fund 5300.01.225.000 – Employee Incentive *Budgeted; Funds Available* – **Jeremy Wittie, M.S., General Manager (Pg. 57)**
- H. Approval of District Travel for Miguel Vargas, Vector Control Technician I to attend the Mosquito and Vector Control Association of California annual meeting February 3-7, 2019 to be held in Burlingame, California, in an amount not to exceed \$1,000.00 from Fund 6110.01.500.023 – MVCAC Annual Conference Expense *Budgeted; Funds Available* – **Wakoli Wekesa, Ph.D., Operations Manager (Pg. 60)**
- I. Approval to re-administer Employee Satisfaction Survey by CPS HR Consulting in alignment with Strategic Plan, in an amount not to exceed \$5,760.00 from Fund 6095.01.202.000 – Professional Fees *Budgeted; Funds Available* – **Anita Jones, Human Resources Manager (Pg. 61)**

12. **Old Business**

- A. Discussion and approval to enter into Public Works contract with ABC Liovin Drilling, the lowest responsible bidder, for well destruction in an amount not to exceed \$30,000.00 from Capital Facility Replacement Fund – *Budgeted; Funds Available* **David l’Anson, Administrative Finance Manager (Pg. 63)**

13. **New Business**

- A. Discussion and/or approval for the District to negotiate and execute a License Agreement or, some other form of agreement (i.e., easement), with the Coachella Valley Association of Governments to use a portion of the District’s property for the construction of CV Link and an access point. **Tom Kirk, Executive Director, CVAG (pg. 65)**
- B. Discussion and/or approval to purchase a scissor-lift in an amount not to exceed \$13,000.00 from Capital Equipment Replacement Fund – *Budgeted; Funds Available* – **David l’Anson, Administrative Finance Manager (Pg.71)**

14. **Closed Session – cont.’d**

- A. **Closed Session:** Public Employee Performance Evaluation of General Manager Pursuant to Government Code Section 54957 (b)(1)

15. **Trustee Comments, Requests for Future Agendas Items, Travel, and/ or Staff Actions**

The Board may not legally take action on any item presented at this time other than to direct staff to investigate a complaint or place an item on a future agenda unless (1) by a majority vote, the Board determines that an emergency situation exists, as defined by Government Code Section 54956.5, or (2) by a two-thirds vote, the board determines that the need for action arose subsequent to the agenda being posted as required by Government Code Section 54954.2(a). Each presentation is limited to no more than 3 minutes.

16. **Adjournment**

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

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

Certification of Posting

I certify that on November 9, 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 November 9, 2018.

Graciela Morales, Clerk of the Board

**SECTION
10**



BOARD REPORTS

COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT

Executive Committee Meeting Minutes

TIME: 9:09 A.M. NOVEMBER 5, 2018

LOCATION: 43420 Trader Place, Indio, CA 92201

TRUSTEES PRESENT:

Shelley Kaplan	Franz De Klotz
Clive Weightman	Doug Hassett

ABSENT:

None

OTHERS PRESENT:

Jeremy Wittie, General Manager
Grace Morales, Clerk of the Board
Brad Anderson, Rancho Mirage resident

- 1. Call to Order:** President Kaplan called the meeting to order at 9:09 A.M.
- 2. Roll Call:** Roll call indicated four (4) committee members out of four (4) were present.
- 3. Confirmation of Agenda**

4. Public Comments:

Rancho Mirage resident, Brad Anderson, made a public comment about concerns he had while employed at the District and meeting agendas not being posted as required by the Brown Act.

5. Review of Draft November 2018 Board Agenda:

The draft Agenda for the November Board Meeting was reviewed by the Committee. The Committee recommended the following changes: move the Closed Session item to item #8 followed by #9- Presentations. The time for the Finance Committee meeting, Closed Sessions, presentations and regular meeting was discussed. A question as to the wording for item #12G- gift certificate to employees for work performed was brought up. Also, the annual maximum per employee and if it was a continuation from previous years was conversed. Clarification was discussed. Mr. Kaplan asked if it was necessary to keep item #14B –Drone Resolution and Policy on the Agenda for this month and Mr. Wittie informed the committee it was necessary as it is needed for the VCJPA to insure the equipment. Mr. Kaplan pointed out it may be necessary to have the slate of officers on this month's agenda as this month is his last meeting as President of the Board. A discussion ensued. The status of the Chromebooks was conversed. It was moved to January Board meeting. A question regarding the item on the agenda for the employee survey came up and Mr. Wittie provided information.

6. Discussion regarding the legal counsel interview process. A discussion ensued regarding the description of this item on the agenda. It was suggested to ask general counsel her input. The schedule for the interviews was established. The questions for the firms were finalized. Evaluation criteria were talked about as well.

7. Discussion of CV Link Easement. President Kaplan shared information regarding his and Mr. Wittie's conversation with CVAG staff regarding their proposal for the easement and informed members of the committee the executive director, Tom Kirk, will be presenting more information and material to the full Board at Tuesday's meeting. A Staff Report will be included in the Board packet as well. The committee also shared their concerns regarding the maintenance and safety needs for this easement area.

8. Trustee/Staff Comments: Trustee Weightman will be absent in December (if any) and January meetings.

9. Scheduling of Next Meeting Date: The next Executive Committee Meeting was not scheduled. It will be scheduled in late December.

10. Adjournment: The meeting was adjourned by President Kaplan at 9:47 A.M.

DRAFT

COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT

Finance Committee Meeting Minutes

TIME: 4:30 P.M. OCTOBER 9, 2018

LOCATION: 43420 Trader Place, Indio, CA 92201

TRUSTEES PRESENT:

Betty Sanchez	Clive Weightman
Bito Larson	Shelley Kaplan

TRUSTEES ABSENT:

OTHERS PRESENT:

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

- 1. Call to Order:** Treasurer Weightman called the meeting to order at 4:37p.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 September 11, 2018, Finance Committee Meetings: On motion from Treasurer Weightman seconded by Trustee Larson, and passed by unanimous vote, the Committee approved item 5A.

Doug Hassett, Vice President arrived at 5:12 p.m.

6. Discussion and/or Review:

6A. Review of Check Report from Abila MIP for the period of September 12, 2018 to October 3, 2018: Reviewed by Committee.

6B. CalCard Charges September 2018: Reviewed by Committee. Capital expenditures were discussed. Committee members asked for a change to the General Ledger account name description from "Trustee Travel" to "Trustee Professional Development."

6C. Review of August 2018 Financials: Reviewed by Committee. In an effort to continue being transparent, and so that financial reports are easier for the public to read, Treasurer

Weightman requested the heading of the Monthly Budget report is changed to “General Fund: Operational Cash Flow” and to correct any wording that says “General Fund Balance.” Additionally, on the Statement of Revenue and Expenditures Report it was requested that two columns be added: “Monthly Budget” and “Monthly Actual.”

6D. Monthly Budget – July & August: Reviewed by Committee.

6E. June 30 Revenue and Expense: Reviewed by Committee.

6F. CalCard Rebate – Informational: Reviewed by Committee.

7. Old Business: None.

8. New Business: None.

9. Confirmation of Next Meeting: The next Finance Committee Meeting was scheduled for Tuesday, November 13th, at 4:30pm.

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

11. Adjournment: The meeting was adjourned by Treasurer Weightman at 5:20 p.m.

SECTION
11



ITEMS OF GENERAL CONSENT

COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT

Board of Trustees Meeting Minutes

CALLED TO ORDER: 6:00 P.M. OCTOBER 9, 2018

LOCATION: 43420 Trader Place, Indio, CA 92201

TRUSTEES PRESENT:

PRESIDENT :	Shelley Kaplan	City of Cathedral City
VICE-PRESIDENT	Doug Hassett	City of La Quinta
SECRETARY:	Franz De Klotz	County at Large
TREASURER:	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	Vacant
Indio	Benjamin Guitron		

TRUSTEES ABSENT:

None.

OTHERS PRESENT:

Jeremy Wittie, General Manager
Grace Morales, Clerk of the Board
David l'Anson, Administrative Finance Manager
Anita Jones, Human Resources Manager
Crystal Moreno, Human Resources Specialist
Jill Oviatt, Public Information Manager
Jennifer Henke, Laboratory Manager
Edward Prendez, IT Manager
Brad Anderson, Rancho Mirage Resident

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

Absent: None.

5. **Confirmation of Agenda**

6. Public Comment: Rancho Mirage resident, Brad Anderson, made a public comment regarding remarks made about him while employed at the District and that he was wrongfully terminated.

7. Announcements:

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

General Manager Wittie gave a brief summary of the Invasive Aedes work in Mecca and Palm Springs. He also spoke about the Special Districts Leadership Foundation Program and how it could be something we could budget for in the future. He announced that the District has purchased the Chromebooks and explained the use, transition, training (if necessary), and sign-out process.

8. Board Reports:

8A – President's Report: President Kaplan reminded Trustees of the nominations coming up in the near future.

8B – Finance Committee: Finance Committee met prior to Board meeting: Treasurer Weightman reported that the Finance Committee met tonight to review the finances. He stated that Administrative Finance Manager, David l'Anson, has done a great job implementing changes to reports. The committee also reviewed the new monthly budget format and asked for further revisions.

9. Items of General Consent:

- Minutes for September 11, 2018, Board Meeting
- Correspondence
- Approval of Expenditures for September 12-30, 2018, and October 1-9, 2018
- Informational Items:
 - District Travel
- Department Reports

On motion from Trustee B. Sanchez, seconded by Vice President Hassett, and passed by unanimous vote, the Board of Trustees approved item 11A.

Ayes: Trustees B. Sanchez, Hassett, Larson, Walker, Kunz, De Klotz, Guitron, A. Sanchez, and Weightman.

Noes: None.

Abstained: President Kaplan.

Absent: None.

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

Ayes: Trustees B. Sanchez, Walker, De Klotz, Guitron, Hassett, Kunz, Larson, A. Sanchez, Weightman, and President Kaplan.

Noes: None.

Abstained: None.

Absent: None.

10. Old Business:

None.

11. New Business:

11A. 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 Capital Replacement Equipment Fund - Reserve for Laboratory Equipment:

On motion from Trustee B. Sanchez seconded by Trustee Walker, and passed by unanimous vote, the Board of Trustees approved item 11A.

Ayes: Trustees B. Sanchez, Walker, De Klotz, Guitron, Hassett, Kunz, Larson, A. Sanchez, Weightman and President Kaplan.

Noes: None.

Abstained: None.

Absent: None.

11B. Discussion regarding the process to review and recommend submitted proposals for District General Counsel – Mr. Shelley Kaplan, Board of Trustees President:

A discussion ensued. It was determined that the general counsel proposals that were submitted to the District will be reviewed by an ad hoc Committee formed by President Kaplan, Kunz, Larson and A. Sanchez. A recommendation to the full Board and interviews for top three forms will be scheduled for the November Board meeting.

12. Closed Session

- A. **Closed Session:** Closed Session: Public Employee Performance Evaluation of General Manager Pursuant to Government Code Section 54957 (b)(1)

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

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

- Trustee Kunz, Walker, Larson and Vice President Hassett asked for information regarding the MVCAC Annual meeting. Travel request forms were provided.

15. Adjournment: On motion from Vice President Hassett, seconded by Trustee Larson, and passed by unanimous vote, the meeting was adjourned by President Kaplan at 7:34 p.m.

Ayes: Trustees Hassett, De Klotz, Guitron, Kunz, Larson, A. Sanchez, B. Sanchez, Walker, President Kaplan, and Weightman.

Noes: None.

Abstained: None.

Absent: None.

Shelley Kaplan
President

Franz De Klotz
Secretary

From: Diane Greeman
Sent: Wed 10/3/2018 9:34 AM
To: DistrictWideGroup
Subject: Complimentary Call

Jim M. called this morning with a very complimentary report on **Jess Lucia** for his most thorough and professional job. He said Jess took his time to explain what they do and how they treat for RIFA. He said the District is doing a great job and appreciates our work.

A call like this certainly makes one proud to be working for this District. Thanks Jess, great job!

Diane G.

Administrative Clerk

From: Jeff V.
Sent: Tuesday, October 09, 2018 2:37 PM
To: Jennifer Henke; Wakoli Wekesa; Oldembour Avalos; Kim Hung; Arturo Gutierrez
Cc: Scott Carroll
Subject: Thanks so much to your team!

Dear Jennifer, Wakoli, Arturo, Olde, Kim and CVMVCD Crew,

As we're nearing the end of our 'remote' field season and settling into local fall mosquitoes before the onset of winter, I just wanted to reach out and thank you guys and **your entire team** for all of the generous support this past spring! Our work in the area would not have been nearly as successful without your networking, logistical support, trap counts, and great company.

Hope to connect at ESA with as many of you are up there, and thanks so much again.

Best,

Jeff, Scott & Team

Jeff V. -Director of Operations, Carroll-Loye Biological Research

From: Jill Oviatt <JOviatt@cvmvcd.org>
Date: September 27, 2018 at 4:15 PM
To: DistrictWideGroup
Subject: Resident Concerns AND Compliments

Hi Team.

I just wanted to let you know that we have received a number of calls from residents in Palm Springs who are concerned about the truck-mounted larval control applications over the next few weeks. Thank you to **Abby and Diana and to the Operations supervisors** who using our talking points have been able to address resident concerns and for the most part reassure people that the control

efforts we are carrying out are warranted, pose minimal risk, and are the best way to protect public health. Along with the calls of concern, we also received a call expressing appreciation and thanks from Steve R. of Palm Springs. He said he feels so fortunate to have a responsive mosquito control agency that not only came to his house twice to help with the mosquito problem but then sent in the trucks when things didn't get better. He said his property is "inundated" with mosquitoes and he was so happy to get the postcard that we would be spraying and he wanted us to know how much he appreciated it. Good job team!

Jill Oviatt, M.C.D.M.

Public Information Manager

From: LetsAll@GoBananas.net

Sent: Friday, October 12, 2018 11:30 AM

To: Jill Oviatt

Subject: Vector Control - 2018-10-11 ONE-PS Speaker and her container and supplies

Hi Jill, and Don,

Jill, our friend Don B. and fellow ONE-PS VIP Member, took to his mobile home park, I think it's called Ramon MHP near Sunrise and Ramon located in the Warm Sands Neighborhood, what was remaining of your Vector Control handouts and your bin after everyone had a chance to get some. He sees his mobile home park as a major violator center and wants to get your message out to them. I have attached your business card to this email for Don. Please feel free to contact Don so you can arrange the hand-off of your bin and any remaining supplies.

Thanks again for singing us a tune at ONE-PS. That was a fun moment and you did an excellent job with your presentation. Kudos! And Thanks!

Thank again,

Paul H. – ONE-PS Neighborhood Formation and Support Committee.

From: Denise G.

Sent: Monday, October 15, 2018 9:49 AM

To: Jill Oviatt

Subject: RE: Nice Instagram post by Julie M.

Hi **Jill**,

Thank you for speaking! You were so great! Entertaining and educational and that mosquito jingle was so awesome!

I'll send this out to the meeting participants and others on my e-mail distribution list who would find this very useful.

Thanks again – you were a hit!

Denise G.

Manager, Office of Neighborhoods

From: Sarah Crenshaw
Sent: Thursday, October 25, 2018 1:55 PM
To: DistrictWideGroup
Subject: Compliment Call: Carlos H.

Good afternoon,

I just received a call from a Palm Springs resident complimenting **Carlos H.** She said that he will stop by her property periodically to inspect for mosquito breeding. She said that he is a wonderful guy and because of his recommendations on eliminating standing water she does not have mosquitoes at this time.

Great job Carlos!

Sarah L Crenshaw

Administrative Clerk

From: Sarah Crenshaw
Sent: Thursday, October 26, 2018 2:39 PM
To: DistrictWideGroup
Subject: Compliment Call: Oscar & Ryan

Good afternoon,

I just received a compliment call from a resident regarding **Oscar & Ryan.** She had 2 separate mosquito inspections and said they were both really great, kind, and showed initiative with finding the source and providing information. She said she also left a positive review on Google.

Great job Oscar & Ryan!

Thank you,

Sarah L Crenshaw

Administrative Clerk

November 05, 2018

Graciela Morales (CVMVCD - Clerk of the Board)
Coachella Valley Mosquito and Vector Control District
43420 Trader Pl.
Indio, CA. 92201
(760)342-8287 ext. 240

Dear CVMVCD Clerk of the Board,

Please submit this letter (Comment Letter) in to the Public record for the Executive Committee Meeting held on the date of November 05, 2018 for the Non-Agenda Public Comment section of the meeting.

Please be advise that because of prior discriminating actions taken against me by active Coachella Valley Mosquito and Vector Control District supervisory staff member's and the lack of administrative control by the (General Manager) to properly Investigate and act on my then reported concerns related to discrimination/harassment/bullying and safety while I was employed at the CVMVCD. This has allowed that type of abusive behavior to continue and thrive within the District. This Includes the advancements of district staff to other employment opportunities within the District. Allowing for the appearance of favoritism and nepotism to exist. The best and the brightest potential employee's need to know about employment opportunities and the CVMVCD In-house approach to filling vacant and newly created employment positions without any notifications to external applicants has the potential to violate the Public Trust and of course is viewed as non-transparent to the Residents of the Coachella Valley.

And at your last meeting I made Public comments on that meeting's agenda not being available on your website and still has not been posted as of this morning. And todays meeting was not posted on the CVMVCD website as required by the "Brown Act" (Pursuant to Gov. Code section 54954.2) until this morning. Please in the future allow people their right to know of your organizations meetings.

Sincerely,



Brad Anderson

37043 Ferber DR.

Rancho Mirage, CA. 92270

(760)409-9434(Cell)

Coachella Valley Mosquito and Vector Control District

Checks Issued for the Period of:
October 10, 2018 - November 8, 2018

<u>Check No</u>	<u>Payable To</u>	<u>Description</u>	<u>Check Amount</u>	<u>Total Amount</u>
	Payroll Disbursement	October 5, 2018	181,672.29	
	Payroll Disbursement	October 19, 2018	196,267.71	
	Payroll Disbursement	November 2, 2018	186,628.07	564,568.07
Pre-Approved Expenditures:				
Cash - First Foundation Bank Checking				
41899	Burrtec Waste & Recycling Svcs.	Waste & Recycling Services: September & October 2018	771.80	
41900	CalPERS-HEALTHCARE ACCT	Healthcare Insurance Premiums: October & November 2018	155,728.00	
41901	CalPERS-RETIREMENT ACCT	Retirement Contributions: 9/21, 10/5 & 10/19 PP	100,579.51	
41902	DIRECTV, Inc.	Satellite Services Fee: 9/25 - 10/24/2018	31.99	
41903	Frontier Communications-Internet	Internet Service Fees: 10/26 - 11/24/2018	454.84	
41904	ICMA Retirement Trust	Deferred Retirement Contributions: 9/21, 10/5 & 10/19	36,867.96	
41905	Imperial Irrigation District	Electric Service Fees: 9/5 - 10/2/2018	2,198.27	
41906	Imperial Irrigation Dist-Lab Acct	Electric Service Fees: 9/5 - 10/2/2018	4,206.09	
41907	Indio Water Authority	Water Services Fees: 9/6 - 10/1/2018	1,446.70	
41908	Principal Life Insurance Co.	Dental & Life Insurance Premiums: October & November 2018	20,611.06	
41909	Standard Insurance Company	LTD Insurance Premiums: October & November 2018	6,098.22	
41910	Vision Service Plan (CA)	Vision Insurance Premiums: October & November 2018	1,754.10	
				330,748.54
Cash - First Foundation Bank Checking				
41898	Edgar Castro	Settlement Agreement	5,000.00	
41911	Automated Gate Services, Inc.	Repair & Maintenance	457.78	
41912	CarQuest Auto Parts	Vehicle Parts & Supplies	96.86	
41913	CDW Government, Inc.	Capital Equipment Replacement	4,678.32	
41914	Desert Alarm, Inc.	Repair & Maintenance	284.00	
41915	Desert Electric Supply	Repair & Maintenance	119.46	
41916	Equipment Direct, Inc.	Safety Expense	1,401.89	
41917	Inland Power Equipment Co.	Equipment Parts & Supplies	357.79	
41918	Jernigan's Sporting Goods, Inc.	Safety Expense	470.10	
41919	NAPA Auto & Truck Parts	Vehicle Parts & Supplies	433.48	
41920	Refrigeration Supplies Distributor	Repair & Maintenance	122.32	
41921	Time Clock Plus	Maintenance Contracts	1,599.95	
41922	Valley Lock & Safe	Repair & Maintenance	22.78	
41923	Waxie Sanitary Supply	Maintenance Supplies	303.47	
Cash - First Foundation Bank Check Run Total to be Approved				15,348.20
Total Expenditures: October 10, 2018 to November 8, 2018				910,664.81

Shelley Kaplan, President

Clive Weightman, Treasurer

Coachella Valley Mosquito and Vector Control District
FINANCES AT A GLANCE
ALL FUNDS COMBINED
For the Month Ended October 31, 2018

	Beginning of the Month	Change During the Month	End of the Month
INVESTMENTS	\$ 10,423,469	\$ (1,023,855)	\$ 9,399,614
CASH	<u>\$ 107,640</u>	<u>238,425</u>	<u>\$ 346,065</u>
INVESTMENTS & CASH	<u>\$ 10,531,109</u>	<u>\$ (785,430)</u>	<u>\$ 9,745,679</u>
CURRENT ASSETS	2,031,451	(48,263)	1,983,188
FIXED ASSETS	10,725,824	-	10,725,824
OTHER ASSETS	5,111,294	-	5,111,294
TOTAL ASSETS	<u><u>\$ 28,399,678</u></u>	<u><u>\$ (833,693)</u></u>	<u><u>\$ 27,565,985</u></u>
TOTAL LIABILITIES	\$ 5,671,592	\$ 62,270	\$ 5,733,862
TOTAL DISTRICT EQUITY	22,728,085	(895,963)	21,832,122
TOTAL LIABILITIES & EQUITY	<u><u>\$ 28,399,677</u></u>	<u><u>\$ (833,693)</u></u>	<u><u>\$ 27,565,984</u></u>
RECEIPTS		\$ 74,124	
CASH DISBURSEMENTS			
Payroll	\$ 377,940		
General Admin	\$ 481,614		
Total Cash Disbursements		\$ (859,554)	
NON-CASH ENTRIES:		\$ (48,263)	
Accrual Modifications - Changes in A/P, A/R & Pre-paid insurance		<u> </u>	
Change during Month - Excess of Cash over Receipts & Non-Cash Adjustments		<u><u>\$ (833,693)</u></u>	

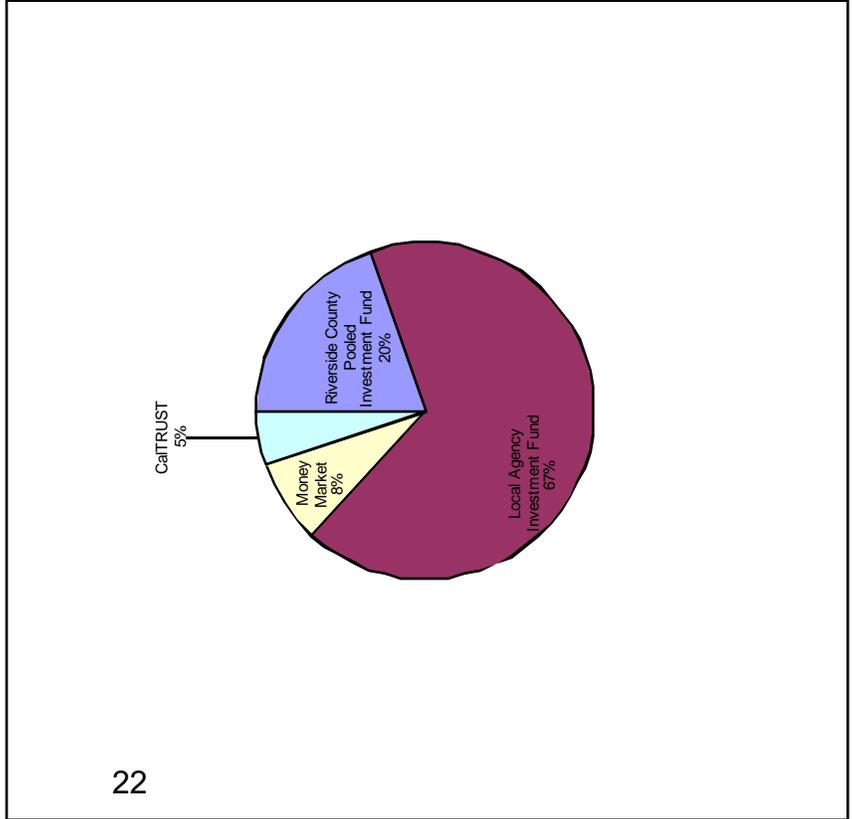
CVMVCD
Cash Journal - deposits
From 10/1/2018 Through 10/31/2018

Document N...	ID	Payee/Recipient Name	Transaction Description	Effective ...	Deposits
CD00140	VCJPA	Vector Control Joint Powers Agency	October Cash Receipts	10/9/2018	643.92
CD00138	PAYMAC	Paymac Inc	October Cash Receipts - August Vehicl...	10/12/2018	21,867.52
CD00137	LAIF	Local Agency Investment Fund	October Cash Receipts - LAIF Interest	10/15/2018	34,089.51
CD00139	RANDNPALLET	R & N Pallet	October Cash Receipts - Recycling	10/23/2018	81.00
016	COACHELLA...	Coachella Valley Unified School District	Rental Income	10/31/2018	17,251.68
CD00141	FIRSTFOUN...	First Foundation Bank	October Cash Receipts - Bank Interest	10/31/2018	190.73
Report Total					74,124.36

**COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT
INVESTMENT FUND BALANCES AS OF OCTOBER 31, 2018**

INSTITUTION	IDENTIFICATION	Issue Date	Maturity Date	YIELD	General Fund	Thermal Capital Fund	Capital Equipment Replacement Fund	Capital Facility Replacement Fund	BALANCE
Investment Fund Balance									
LAIIF	Common Investments			2.14%	5,634,675	487,737	1,677,236	1,599,967	\$ 9,399,614
Riverside County	Funds 51105 & 51115			2.01%	3,781,506	327,327	1,125,616	1,073,759	\$ 6,308,208
CaTRUST	Medium Term Fund			1.49%	1,107,590	95,873	329,689	314,500	\$ 1,847,652
First Foundation	Market Rate			0.25%	294,697	25,509	87,721	83,679	\$ 491,606
					450,881	39,028	134,211	128,028	\$ 752,148
	Total Investments				5,634,675	487,737	1,677,236	1,599,967	\$ 9,399,614

**PORTFOLIO COMPOSITION AS OF OCTOBER 31, 2018
WEIGHTED YIELD 1.93%**



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

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

Respectfully submitted

NOTED AND APPROVED

CVMVCD

Statement of Revenue and Expenditures
From 10/1/2018 Through 10/31/2018
(In Whole Numbers)

	Budget - Original	Current Period Budget	Current Period Actual	Current Period Variance	YTD Actual	Total Budget Remaining	Percent Total Budget Remaining - Original
Revenues							
4000	Property Tax - Current Secured	0	0	0	0	(3,733,045)	(100)%
4010	Property Tax - Curr. Supplmntl	0	0	0	0	(72,202)	(100)%
4020	Property Tax - Curr. Unsecured	0	0	0	147,283	(14,571)	(9)%
4030	Homeowners Tax Relief	0	0	0	0	(42,732)	(100)%
4070	Property Tax - Prior Supp.	0	0	0	0	(28,660)	(100)%
4080	Property Tax - Prior Unsecured	0	0	0	0	(9,902)	(100)%
4090	Redevelopment Pass-Thru	0	0	0	0	(4,275,025)	(100)%
4520	Interest Income - LAIF/CDS	100	34,280	34,180	49,151	(50,849)	(51)%
4530	Other Miscellaneous Receipts	5,250	725	(4,525)	9,453	(53,547)	(86)%
4551	Benefit Assessment Income	0	0	0	0	(1,996,366)	(100)%
	Total Revenues	5,350	35,005	29,655	205,887	(10,276,899)	(98)%
Expenditures							
Payroll Expenses							
5101	Payroll - FT	390,503	360,669	29,834	1,485,039	3,200,992	68 %
5102	Payroll Seasonal	23,162	20,495	2,667	82,422	126,038	60 %
5103	Temporary Services	0	0	0	6,900	0	0 %
5105	Payroll - Overtime Expense	3,475	2,593	882	5,538	36,162	87 %
5150	CalPERS State Retirement	36,158	32,650	3,508	250,835	315,625	56 %
5155	Social Security Expense	25,236	23,288	1,948	98,312	204,515	68 %
5165	Medicare Expense	5,902	5,627	275	23,313	47,508	67 %
5170	Cafeteria Plan	85,921	169,670	(83,749)	434,407	596,645	58 %
5172	Retiree Healthcare	342,420	10,423	18,112	52,093	290,327	85 %
5180	Deferred Compensation	101,030	16,746	(8,327)	25,973	75,057	74 %
5195	Unemployment Insurance	3,034	1,203	1,831	3,103	33,302	91 %
	Total Payroll Expenses	610,345	643,365	(33,020)	2,467,934	4,926,171	67 %
Administrative Expenses							
5250	Tuition Reimbursement	1,250	0	1,250	1,198	13,802	92 %
5300	Employee Incentive	500	0	500	0	6,000	100 %
5301	Employee Support	333	213	120	1,075	2,925	73 %
5302	Wellness	600	0	0	0	600	100 %
5305	Employee Assistance Program	3,200	264	3	1,068	2,132	67 %

CVMVCD

Statement of Revenue and Expenditures
From 10/1/2018 Through 10/31/2018
(In Whole Numbers)

	Budget - Original	Current Period Budget	Current Period Actual	Current Period Variance	YTD Actual	Total Budget Remaining	Percent Total Budget Remaining - Original
7310							
	Maintenance & Calibration	500	0	500	0	6,000	100 %
7350	Permits, Licenses & Fees	904	0	904	2,693	8,157	75 %
7400	Vehicle Parts & Supplies	32,000	1,020	1,647	10,410	21,590	67 %
7420	Offsite Vehicle Maint & Repair	12,500	0	1,042	6,055	6,445	52 %
7450	Equipment Parts & Supplies	16,500	481	894	2,418	14,082	85 %
7500	Small Tools Furniture & Equip	1,700	0	142	0	1,700	100 %
7550	Lab Supplies & Expense	30,500	422	2,120	7,272	23,228	76 %
7570	Aerial Pool Surveillance	25,000	0	0	0	25,000	100 %
7575	Surveillance	45,500	3,792	3,792	4,765	40,735	90 %
7600	Staff Training	72,000	386	4,977	21,543	50,457	70 %
7650	Equipment Rental	1,000	83	83	180	820	82 %
7675	Contract Services	131,232	20,069	(9,133)	44,589	86,643	66 %
7700	Motor Fuel & Oils	73,200	6,100	6,100	31,162	42,038	57 %
7750	Field Supplies	9,400	783	726	2,599	6,801	72 %
7800	Control Products	785,000	65,416	65,416	157,972	627,028	80 %
7850	Aerial Applications	114,500	19,083	12,808	20,525	93,975	82 %
8415	Capital Outlay	20,650	1,721	1,721	3,943	16,707	81 %
8510	Research Projects	150,000	0	0	0	150,000	100 %
9000	Contingency Expense	150,000	0	12,500	0	150,000	100 %
	Total Operating	1,827,532	38,138	108,477	345,571	1,481,961	81 %
	Contribution to Capital Reserves						
	Transfer to other funds	482,614	40,218	0	160,871	321,743	67 %
8900	Total Contribution to Capital Reserves	482,614	40,218	0	160,871	321,743	67 %
	Total Expenditures	10,482,786	766,940	92,160	3,217,486	7,265,300	69 %
	Net revenue over/(under) expenditures	0	(731,935)	121,815	(3,011,599)	(3,011,599)	0 %

CVMVCD
Balance Sheet
As of 10/31/2018
(In Whole Numbers)

		Current Year
Assets		
Cash and Investments		
1000	Cash - Investments	9,399,614
1016	Petty Cash	500
1017	Petty Cash Checking	1,500
1025	First Foundation - General	96,930
1026	First Foundation - Payroll	247,135
	Total Cash and Investments	9,745,679
Current Assets		
1050	Accounts Receivable	120,878
1085	Inventory	581,546
1168	Prepaid Insurance	241,495
1169	Deposits	1,039,269
	Total Current Assets	1,983,188
Fixed Assets		
1300	Equipment/Vehicles	1,870,816
1310	Computer Equipment	417,111
1311	GIS Computer Systems	301,598
1320	Office Furniture & Equipment	1,218,125
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	(9,211,140)
	Total Fixed Assets	10,725,824
Other Assets		
1520	Resources to Be Provided	3,514,102
1525	Deferred Outflows of Resources	1,284,772
1530	Deferred Outflows of Resources - OPEB	312,420
1900	Due to/from	0
	Total Other Assets	5,111,294
	Total Assets	27,565,984
Liabilities		
Short-term Liabilities		
Accounts Payable		
2015	Credit Card Payable	(1,530)
2020	Accounts Payable	20,958
2030	Accrued Payroll	120,084
2035	Fundware AP Clearing	1
2040	Payroll Taxes Payable	54,871

CVMVCD
Balance Sheet
As of 10/31/2018
(In Whole Numbers)

		Current Year
2175	Claims/Judgements Payable	354
2185	Employee Dues	4,876
	Total Accounts Payable	199,613
	Total Short-term Liabilities	199,613
	Long-term Liabilities	
2100	Pollution Remediation Obligati	2,100,000
2200	Net Pension Liability	1,763,285
2210	Deferred Inflows of Resources	131,145
2300	Net OPEB Liaibility	877,253
2500	Compensated Absences Payable	662,567
	Total Long-term Liabilities	5,534,250
	Total Liabilities	5,733,862
	Fund Balance	
	Non Spendable Fund Balance	
3920	Investment in Fixed Assets	10,698,793
3945	Reserve for Prepays & Deposit	1,373,799
3960	Reserve for Inventory	532,129
	Total Non Spendable Fund Balance	12,604,721
	Committed Fund Balance	
3965	Public Health Emergency	4,103,640
	Total Committed Fund Balance	4,103,640
	Assigned Fund Balance	
3910	Reserve for Operations	4,500,000
3925	Reserve for Future Healthcare Liabilities	877,253
3955	Thermal Remediation Fund	463,724
3970	Reserve for IT Replacement	277,991
3971	Reserve for Vehicle Replacement	344,376
	Total Assigned Fund Balance	6,463,344
	Unassigned Fund Balance	
3900	Fund Equity	1,513,538
3999	P&L Summary	(815)
	Total Unassigned Fund Balance	1,512,723
	Current YTD Net Income	(2,852,307)
	Total Current YTD Net Income	(2,852,307)
	Total Fund Balance	21,832,122
	Total Liabilities and Net Assets	27,565,984

	<p style="text-align: center;">Coachella Valley Mosquito and Vector Control District</p> <p style="text-align: center;">Staff Report</p>	<p style="text-align: center;">November 13, 2018</p>
<p>Agenda Item: Informational Item</p> <p>Treasurer to Approve Release of Payment to Vendors for December – David I’Anson, Administrative Finance Manager</p>		
<p>Report:</p> <p>At the October 10, 2017 Board Meeting, the Trustees approved the indefinite cancellation of the December Board Meeting. Resolution 1997-17, approved October 14, 1997, authorizes the Treasurer to release payment to vendors when a quorum, for the monthly Board Meeting, is not present. Due to the cancellation of the Board Meeting the release of payment to vendors will be approved by <i>Treasurer Clive Weightman</i>.</p> <p>Payments to vendors that are approved by <i>Treasurer Clive Weightman</i> will be presented to the Board at the January 8, 2019 Board Meeting for final review.</p>		

	<p style="text-align: center;">Coachella Valley Mosquito and Vector Control District</p> <p style="text-align: center;">Staff Report</p>	<p style="text-align: center;">November 13, 2018</p>
<p>Agenda Item: Informational Item</p> <p>District Travel – Grace Morales, Executive Assistant/Clerk of the Board</p>		
<p>Background:</p> <p>February 3-6, 2019: MVCAC Annual Conference (Burlingame, CA) ~ The annual MVCAC Conference provides quality public information, comprehensive mosquito and vector-borne disease surveillance, training to high professional standards, and effective legislative advocacy on behalf of California mosquito and vector control districts. MVCAC promotes cost effective methods of mosquito and vector control as a means to protect public health and safety. MVCAC actively promotes the safe and effective use of public health pesticides. MVCAC does this through legislative advocacy, public education and media relations.</p> <p>Requests to attend must be made by the NOVEMBER 2018 BOARD MEETING.</p> <p>February 25-March 1, 2019: AMCA 85th Annual Meeting (Orlando, FL) ~ The annual meeting of the American Mosquito Control Association (AMCA) is an opportunity for staff to meet with leading mosquito professionals from North America and other countries.</p> <p>Requests to attend must be made by the NOVEMBER 2018 BOARD MEETING.</p>		

	<p>Coachella Valley Mosquito and Vector Control District</p> <p>Staff Report</p>	<p>November 13, 2018</p>
<p>Agenda Item: Informational Item</p> <p>Staff Report from:</p> <ul style="list-style-type: none"> • 48th Annual SOVE Conference, October 7-11, 2018, Yosemite, California. 		
<p>Report:</p> <p>The annual conference of the Society of Vector Ecology brings together experts and practitioners of vector ecologists from around the world. This year the conference was held in Yosemite, California and was dedicated to Dr. Mir S. Mulla for his four decades of service to the Society.</p> <p>This year's keynote address focused on decades of work on mosquito control and management of vector diseases. The fear of exotic diseases previously never thought to remotely be a threat to public health in the United States, is currently part of our planning. The impact of climate change requires vector control agencies to be innovative and up to date in research and control methods. Reports from European, Brazilian, Asian, and Indian chapters of SOVE were received and included vector control challenges.</p> <p>This year the SOVE Annual Conference hosted sessions on:</p> <ul style="list-style-type: none"> • Genomics and genetic manipulation of vectors • Vector-borne zoonosis • Pathogens and disease outcomes, viral evolution altering vector/host dynamics and adaption and disease transmission, vector competence • Emerging tick-borne diseases • Vector control in various parts of the world • CDC regional centers of excellence in vector-borne diseases • Vector-borne diseases outbreaks and trends • Challenges of vector control in the USA • Vector-host interactions and their implications for pathogen maintenance, surveillance and vector control, and • Student competition <p>ATTENDEES: <i>J. Wakoli Wekesa, PhD, Operations Manager</i> <i>Roberta Dieckmann, Field Supervisor</i></p>		

	<p>Coachella Valley Mosquito and Vector Control District</p> <p>Staff Report</p>	<p>November 13, 2018</p>
<p>Agenda Item: Informational Item</p> <p>Staff report from:</p> <ul style="list-style-type: none"> • CASQA Annual Conference, October 15-17, 2018 in Riverside, CA 		
<p>Report:</p> <p>The annual meeting of the California Stormwater Quality Association (CASQA) is an opportunity for staff to meet with members of the stormwater community in local, state, and federal agencies, stormwater program coordinators, contractors, consultants, engineers, lawyers, scientists, and planners.</p> <p><i>Jennifer Henke</i> was invited to speak in a workshop titled Connecting the PLUs – Considerations for Developing the Trash Amendment Implementation Plans on behalf of the Mosquito and Vector Control Association (MVCAC). Her presentation discussed how mosquitoes use stormwater systems and how some devices may create unintended consequences if communication and discussion of plans do not occur. Jennifer also assisted at the MVCAC booth in the exhibitor space, allowing her to discuss mosquito control issues with representatives from local municipalities and agencies responsible for stormwater systems.</p> <p>This year the CASQA Annual Conference hosted sessions on:</p> <ul style="list-style-type: none"> • Collaboration and public outreach • Construction • Managing stormwater systems • Implementing permits • Homelessness impacts on water quality • Data management • Best Management Practices for stormwater • Regulations • Sustainability • Trash Amendments to BMPs <p>ATTENDEES: <i>Jennifer Henke</i>, Laboratory Manager</p>		



Coachella Valley Mosquito and Vector Control District

Staff Report

November 13, 2018

Agenda Item: Informational Item

Staff report from:

- MVCAC Fall Meeting, November 1-2, 2018 in Palm Springs, CA

Report:

The fall quarterly meeting of the MVCAC is a time when the committees that serve to complete specific tasks within the organization meet to update the Board of Directors and the members of MVCAC on their activities. Committees address state-wide issues that impact mosquito and vector control districts from surveillance and control to legislation.

Staff from the District serve on:

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

ATTENDEES:

Trustee Hassett

Trustee Walker

Jeremy Wittie, General Manager

David l’Anson, Administrative Finance Manager

Jennifer Henke, Laboratory Manager

Jill Oviatt, Public Information Manager

Wakoli Wekesa, Operations Manager

Bobbye Dieckmann, Field Supervisor

Kim Hung, Vector Ecologist

Grace Morales, Executive Assistant/ Clerk of the Board

FINANCE

The financial reports show the balance sheet, receipts, and the revenue and expenditure reports for the month ending October 31, 2018. The revenue and expenditure report shows that the operating budget expenditure for July 1, 2018 to October 31, 2018 is \$3,217,486; total revenue is \$205,887 resulting in excess revenue over (under) expenditure for the year to October 31, 2018 of (\$3,011,599).

THREE YEAR FINANCIALS

	10/31/2018	10/31/2017	10/31/2016
Total Revenue	205,887	196,519	219,110
Expenses			
Payroll	2,467,934	2,093,649	2,078,481
Administrative Expense	200,176	206,688	208,640
Utility			
	42,934	34,634	34,666
Operating Expense	345,571	478,967	527,821
Contribution to Capital Reserves	160,871		
Total Expenses	3,217,486	2,813,938	2,849,608
Profit (Loss)	(3,011,599)	(2,617,419)	(2,630,498)

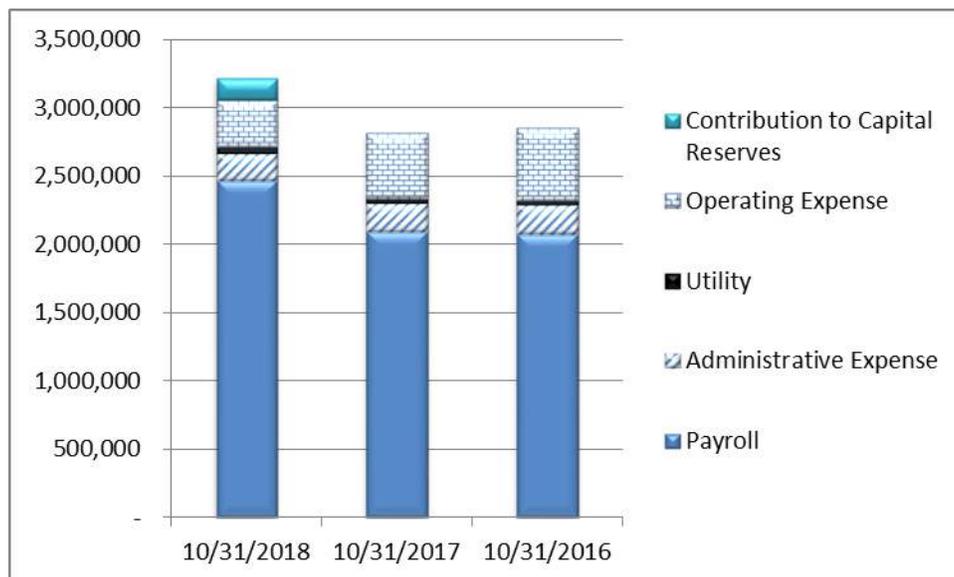


Figure 1 Three Year Expenditure

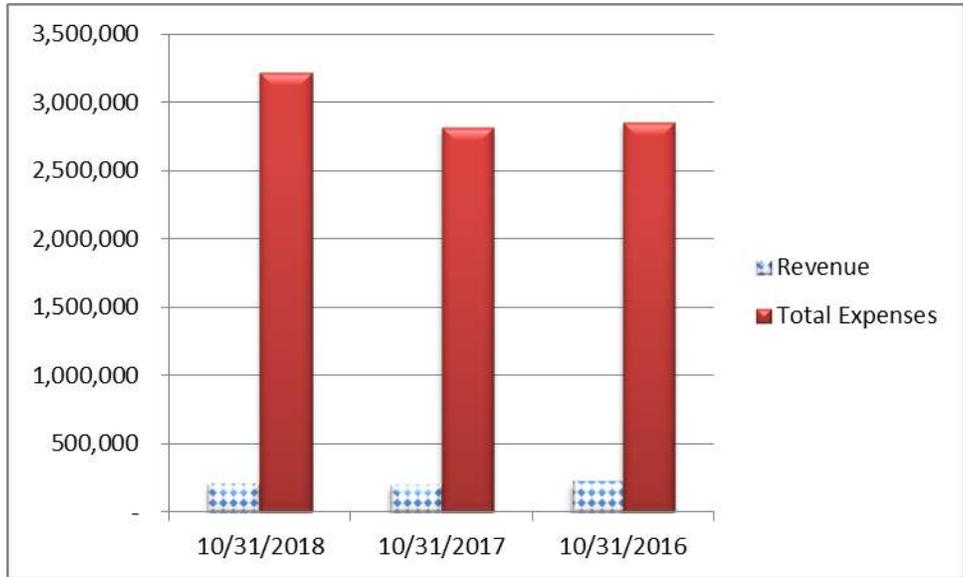


Figure 2 Three Year Revenue & Expenditure

THREE YEAR CASH BALANCE

CASH BALANCES	10/31/2018	10/31/2017	10/31/2016
Investment Balance	9,399,614	9,917,413	10,001,583
Checking Accounting	96,930	67,108	6,217
Payroll Account	247,135	109,939	63,534
Petty Cash	2,000	2,000	2,000
TOTAL CASH BALANCES	9,789,083	10,139,499	10,116,008

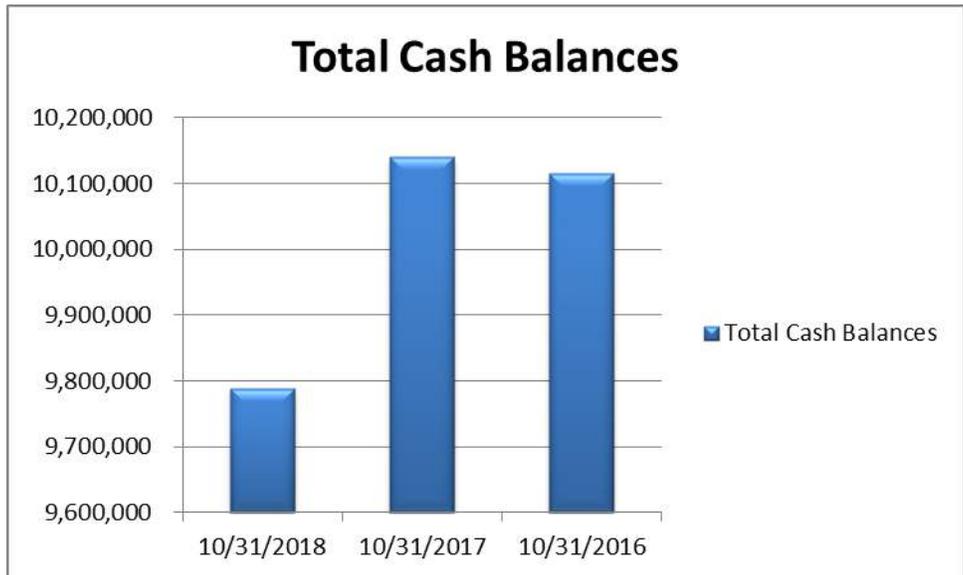


Figure 3 Cash Balances

DISTRICT INVESTMENT PORTFOLIO 10/31/2018

The District's investment fund balance for the period ending October 31, 2018 is \$9,399,614. The portfolio composition is shown in the pie chart. Local Agency Investment Fund (LAIF) accounts for 67% of the District's investments; the Riverside County Pooled Investment Fund is 20% of the total. The LAIF yield for the end of October was 2.14% and the Riverside County Pooled Investment Fund was 2.01%; this gives an overall weighted yield for District investments of 1.93%.

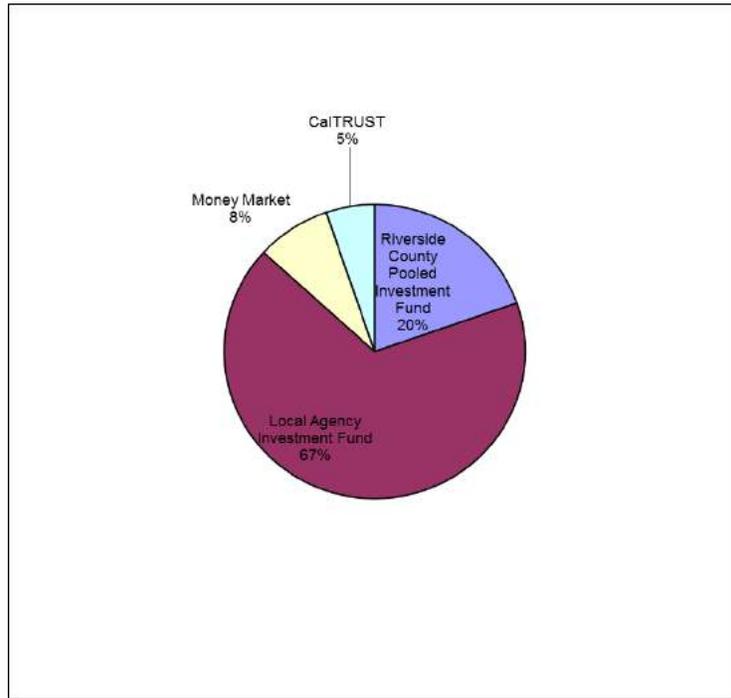


Figure 4 Investment Portfolio 9-30-18

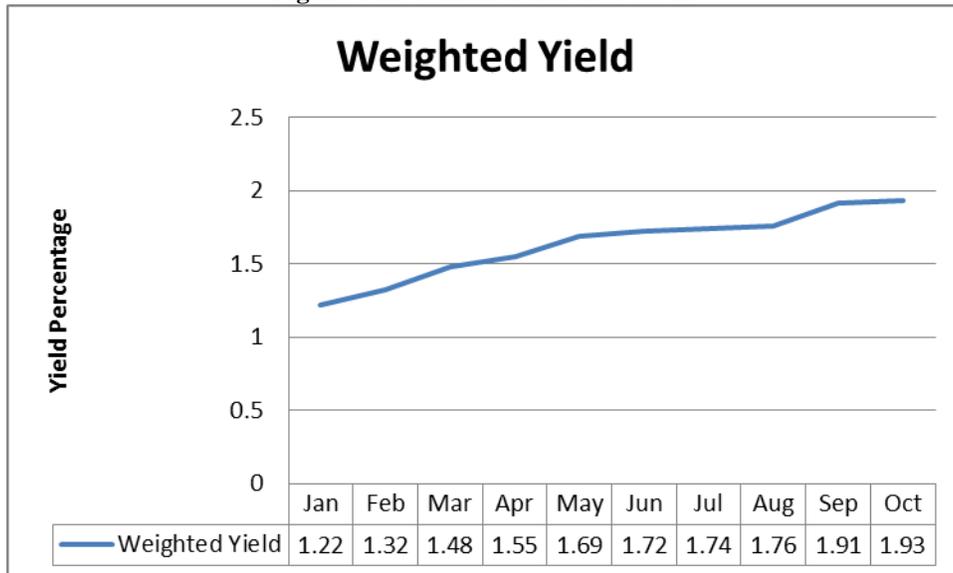


Figure 5 District Investments Weighted Yield

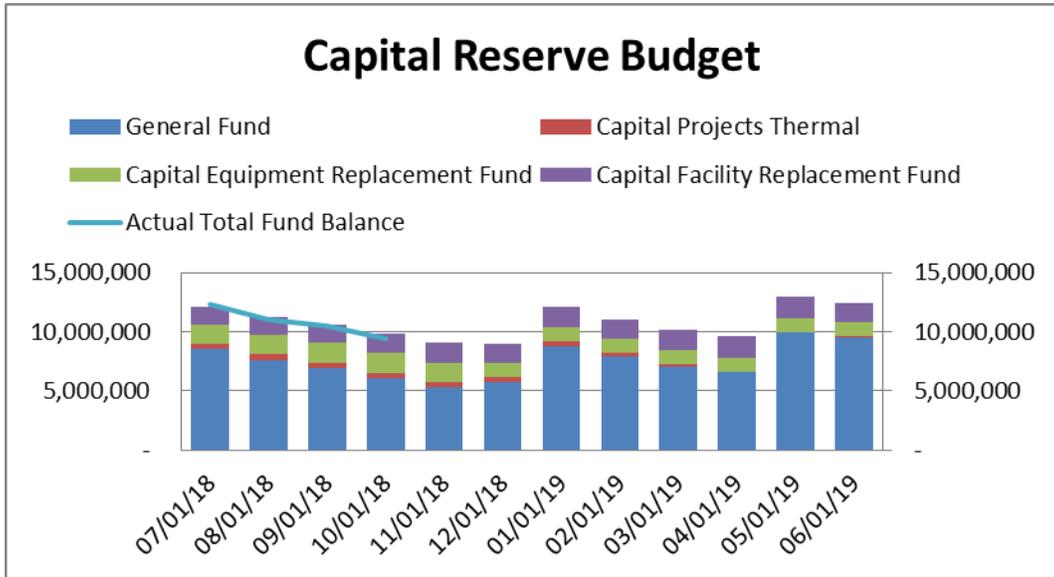


Figure 6 Capital Reserve Budget

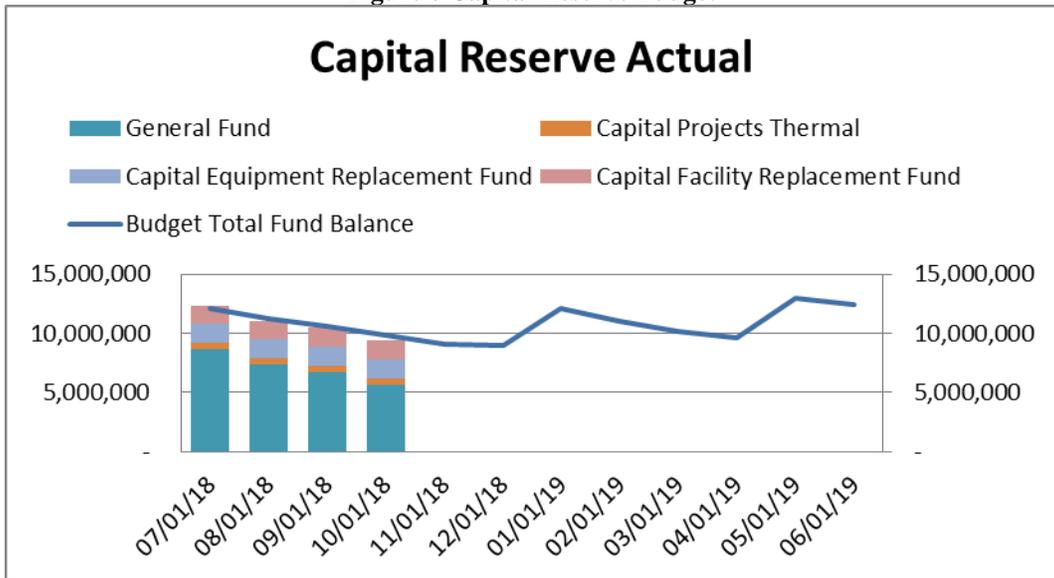


Figure 7 Capital Reserve Actual

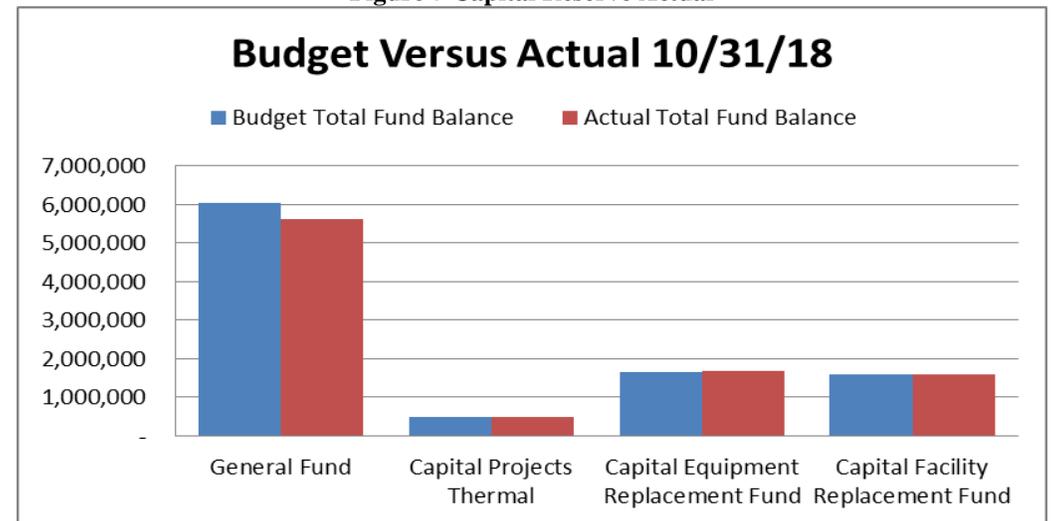
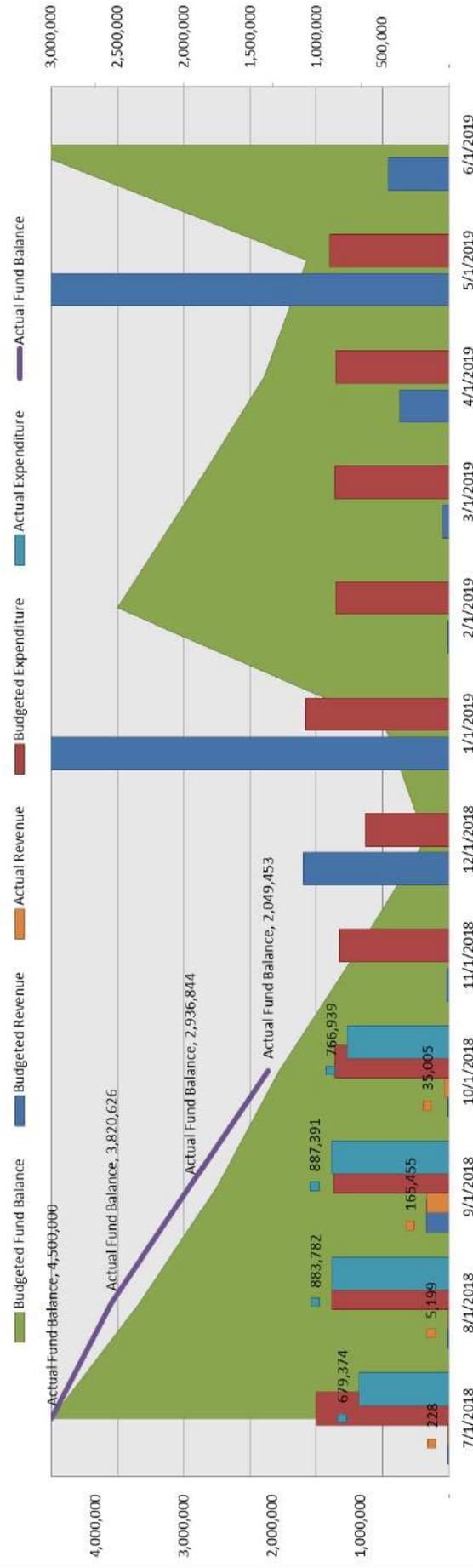


Figure 8 Capital Reserve 10/31/2018

General Fund Operational Cash Flow



Human Resources

Recruitment

Recruitment has begun for the position of Public Information Officer.

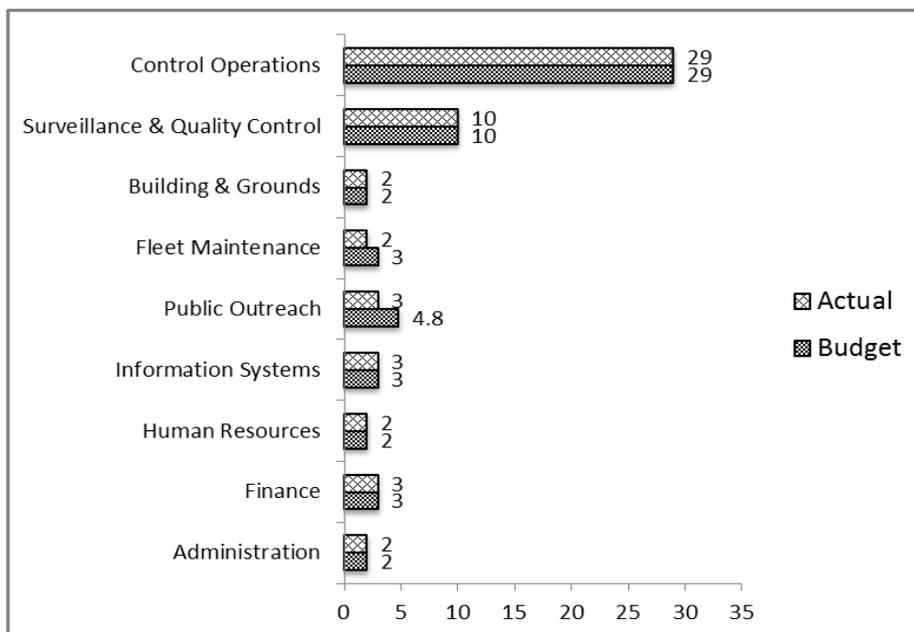
Job Changes

- *Graciela Morales*, Accounting Technician I, has been promoted to the position of Executive Assistant/Clerk of the Board effective September 24, 2018. Graciela has worked at the District for twelve years.
- *Vincent Valenzuela, Jr.*, Vector Control Technician I, has been promoted to the position of Vector Control Technician II effective October 2, 2018. Vincent has worked at the District for three years.
- *Abelina Torres*, Administrative Clerk, has been promoted to the position of Accounting Technician I effective October 29, 2018. Abelina has worked at the District for eleven years.
- *Marina Espejo*, Seasonal Vector Control Operator, has been promoted to the position of Vector Control Technician Trainee effective November 5, 2018. Marina has worked at the District for two seasons.
- *Arnold Khakali*, Seasonal Vector Control Operator, has been promoted to the position of Vector Control Technician Trainee effective November 5, 2018. Arnold has worked at the District for one season.

Open Enrollment

Open Enrollment for the District's health plans ended October 5th. Changes become effective January 1, 2019.

Regular Employee Headcount by Program



Public Outreach Department

The Public Outreach Department remained focused in September and October on educating residents in the East Valley to protect themselves from continued virus activity in Mecca and Thermal and also educating residents and city and county officials on the increased invasive mosquito populations in Mecca and Palm Springs. We took part in three community- or school-sponsored events, gave four community and school presentations/trainings, published two news releases, and gave two interviews.

- **September 5:** NPR interview on KPCC Radio with Public Information Manager *Jill Oviatt* about aerial spraying in Mecca to bring down *Aedes aegypti* populations downtown and to bring down disease-transmitting mosquitoes continually detected in the area north of the Salton Sea.
- **September 7:** Wrote, designed, printed, and organized distribution door-to-door to residents of 1,000 aerial mosquito control notification postcards in Mecca.
- **September 12:** Training of 15 Coachella Valley Unified School District maintenance and custodial staff on Mosquito Prevention Best Practices by *Jill* and Vector Control Technician I *Miguel Vargas*, to educate staff on how to identify mosquito breeding and Red Imported Fire Ants on campuses and what to do about it.
- **September 12:** Mecca-North Shore Community Council meeting presentation by *Jill* about the increased detections of invasive mosquitoes in residential communities in downtown Mecca, continued detections of infected mosquitoes north and west of the Salton Sea, and aerial operations to address the issues. We also urged council members to spread the messages to dump and drain and wear repellent to all residents. There were about 20 meeting attendees.
- **September 20:** Wrote, designed, printed, and organized “Every Door Direct Mail” distribution of 9,000 truck-mounted mosquito control notification postcards in Palm Springs.
- **September 29:** Hosted a booth at the Flying Doctors Health and Resource Fair in Thermal with a live mosquito display, a backyard mosquito breeding sources display, and lots of informational and promotional materials to educate the public on how to prevent mosquito breeding. Public Outreach Coordinator *Edgar Castro* and Vector Control Technician I *Trinidad Haro* interacted with about 150 residents
- **October 2:** Hosted and interactive booth at Family Science Night at Mecca Elementary School. *Edgar* interacted with about 150 students, parents, and teachers.
- **October 3:** Palm Springs City Council Meeting where General Manager *Jeremy Wittie* gave the council an update on the increase in invasive mosquitoes in Palm Springs neighborhoods.
- **October 5:** Interview on Spanish media program “Pico de Gallo” on Red Imported Fire Ants with Field Supervisor *Gregorio Alvarado*.
- **October 11:** Presentation at a ONE-PS Neighborhoods meeting in Palm Springs. *Jill* presented to 75 neighborhood representatives about the importance of mosquito prevention.



Students at Mecca Elementary School check out the live mosquito display at Family Science Night.

- **October 28:** Hosted a booth at the Meccathon Fair in Mecca with Administrative Clerk *Diana Reyes* and Vector Control Technician II *Ramon Gonzalez*, attracting about 200 people.

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 8/31/2018) ARBOVIRUS SURVEILLANCE TESTING – CALIFORNIA

	WNV – Positive 2018 YTD	WNV - Positive 2017 YTD	WNV – 5 year Average	WEE 2018 YTD	SLE 2018 YTD
Positive Counties	40	47	42	0	8
Human Cases	170	427	473	0	0
Positive Dead Birds / # Tested	496/2,065	484/1,891	1338	0	0
Positive Mosquito Pools / # Tested	1,959/41,403	3,350/43,232	3190	0	387/33,553

2018	Chikungunya	Dengue	Zika
Mosquito Pools YTD (positive/total tested)	0/1,745	0/1,745	0/1,745

ARBOVIRUS SURVEILLANCE TESTING – COACHELLA VALLEY

		SEPTEMBER	OCTOBER	2018 YTD	2017 YTD	5 YEAR AVERAGE YTD
HUMANS		0	0	0	1	1
DEAD BIRDS		0	0	0	0	0.2
MOSQUITO POOLS	WNV	0	5	21	108	69.6
	SLE	0	0	56	2	52.7*
	# TESTED	592	463	3,920	4,173	2,883

* Three year average based SLE detections from 2015-2017

ENDEMIC MOSQUITO SURVEILLANCE

CO₂ TRAPS

During the normal mosquito season (March through mid-November) the District Laboratory staff maintains 102 CO₂ (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. CO₂ 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. 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 District when planning mosquito control activities.

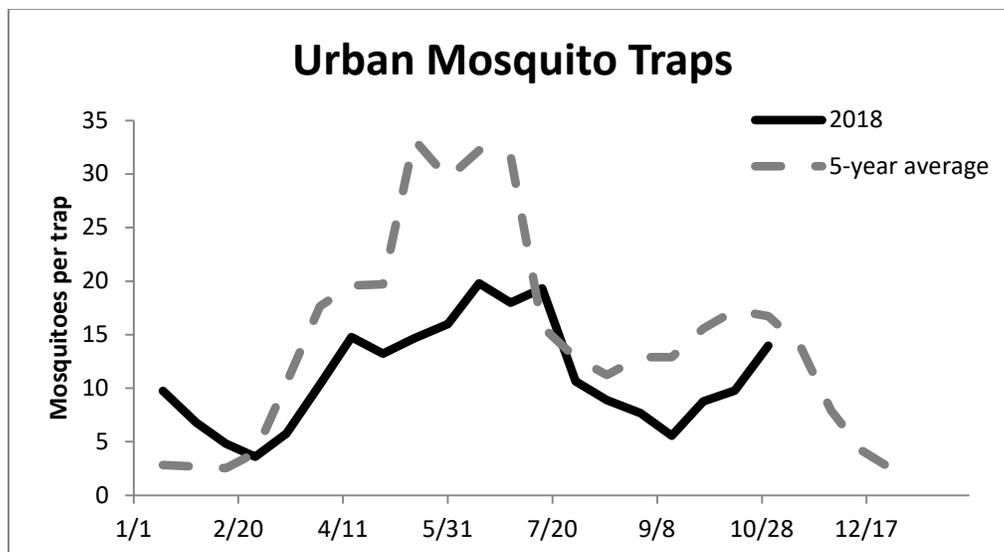
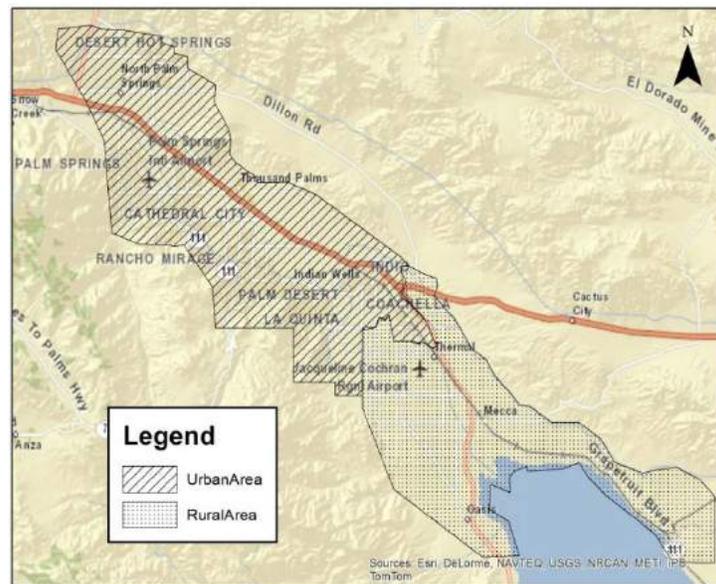


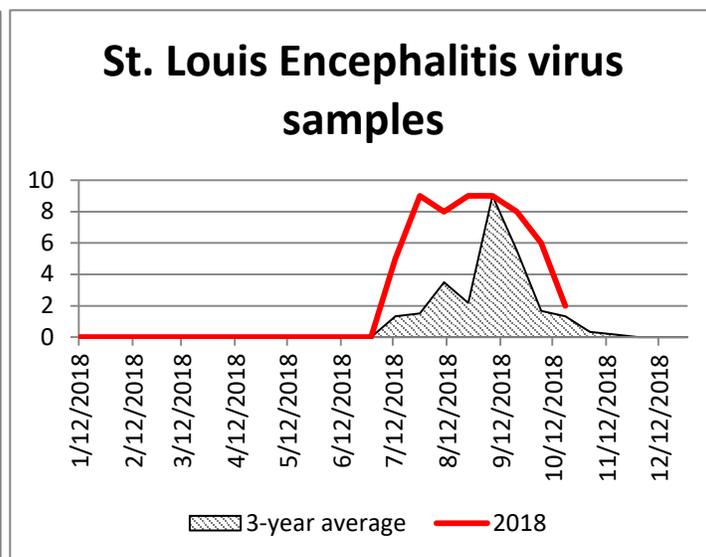
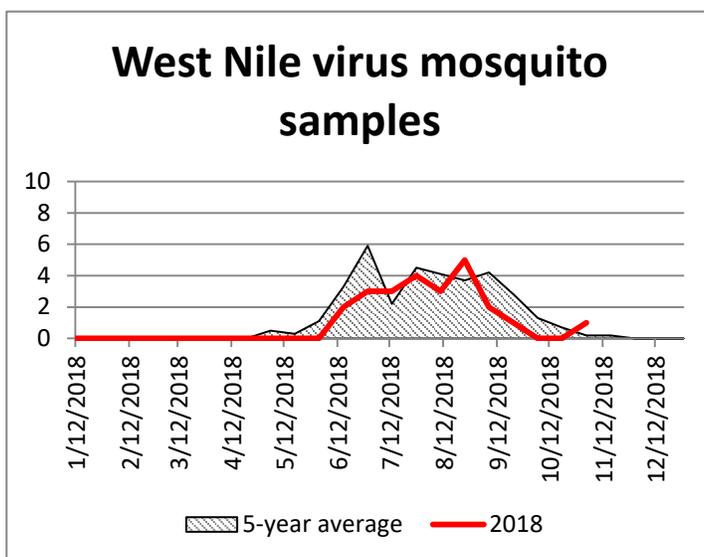
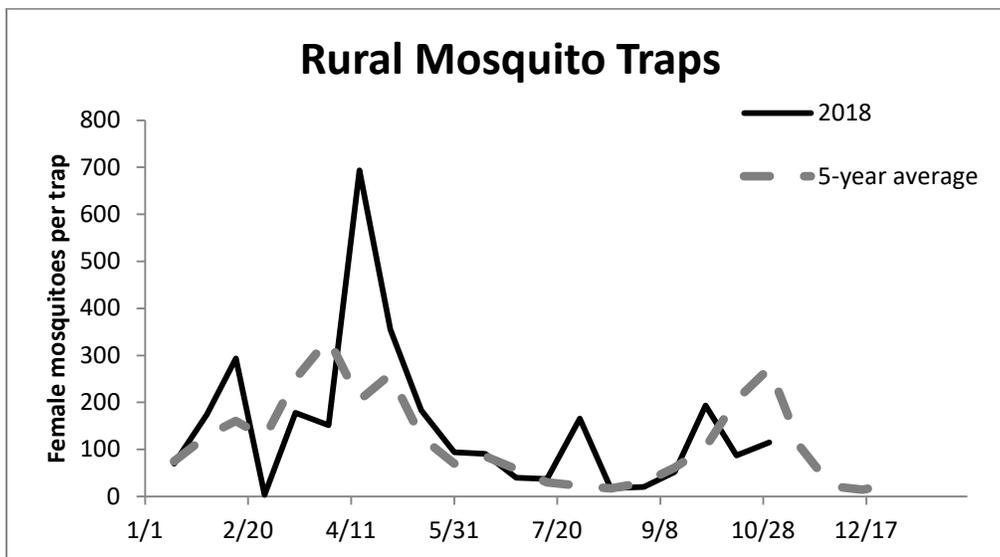
Gravid Traps

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





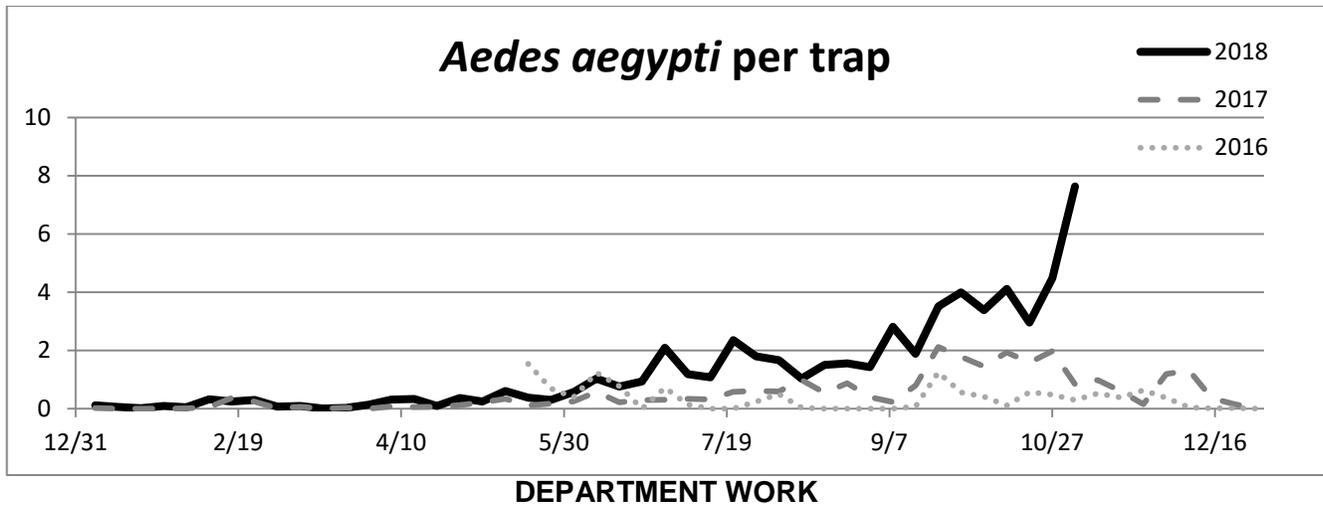
EXOTIC MOSQUITO SURVEILLANCE

Aedes aegypti has been detected in most cities within the Coachella Valley, from Palm Springs to Mecca. This invasive species is not native to southern California. It is a species of interest because it is the primary vector of dengue, chikungunya, Zika, and yellow fever. BG-Sentinel traps are deployed weekly in each region to detect adult mosquitoes looking to bite people. Autocidal Gravid Ovitrap (AGOs) are deployed in locations where female mosquitoes might lay eggs. Ovicups are placed throughout the Coachella Valley region with higher cup density in areas with prior *Aedes* activity. These ovicups collect eggs



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

and are examined weekly. The population of *Ae. aegypti* is most active in the fall.



USDA-CMAVE. Researchers from the USDA Center for Medical, Agricultural and Veterinary Entomology (CMAVE) in Gainesville, FL visited the district and collaborated with Laboratory staff – Arturo Gutierrez, Melissa Snelling, and Kim Hung. For 4 days, the lab staff and USDA worked in the field at a test plot in Mecca on two projects. The first was using a spatial repellent in three different settings: 1 large tent in an enclosure, 2 small tents in the open, and open vegetation only. Of the CO₂ traps set each night, we saw fewer mosquitoes collected inside the tents with the repellent, demonstrating its potential in a desert climate. A total of 88 CO₂ traps were set over the 4 nights. The lab plans to continue trapping and collecting samples in the area to monitor the efficacy of the repellent over time. The second project examined the effectiveness of three different backpack sprayers when used for applying four different liquid mosquito larvicides. Cups were placed along a transect for each spray to examine the swath width in a densely vegetated area. A total of 12 sprays were completed in 2 days (4 formulations in 3 different sprayers). This is the 12th consecutive year of collaboration with this group and 15th visit by this group from USDA-CMAVE. The work assists with providing actionable guidance on applying mosquito and fly control in arid environments.

Surveillance Project

Sequential trapping. The sequential trap is important for determining peak mosquito activity of host-seeking mosquitoes. It is set up similarly to a CO₂ trap but there is a collector that changes every hour. Typically, we use the sequential trap prior to adulticide treatments to decide the best treatment times. We set a sequential trap along with a weather station on a weekly basis starting in July 2018 to collect mosquitoes from an hour before sunset to 7 am. The weather station recorded the temperature, wind, and relative humidity during the collection period. We paired the mosquito collection data to the weather data and sunset time to see whether they have an impact on mosquito activity. So far, we've observed that mosquito activity tends to peak either around an hour after sunset or around midnight. We've collected 7 different species of mosquitoes where the primary species were *Culex tarsalis* and *Psorophora columbiae*. *Ps. columbiae* activity was greatest in August and relatively low in late summer and early fall. *Cx. tarsalis* activity was low during the mid-summer and peaked in late September. We plan to continue trapping weekly for up to 1 year. The results from this collection study will help us better understand nighttime mosquito activity throughout the year in our rural area.

Biological Control

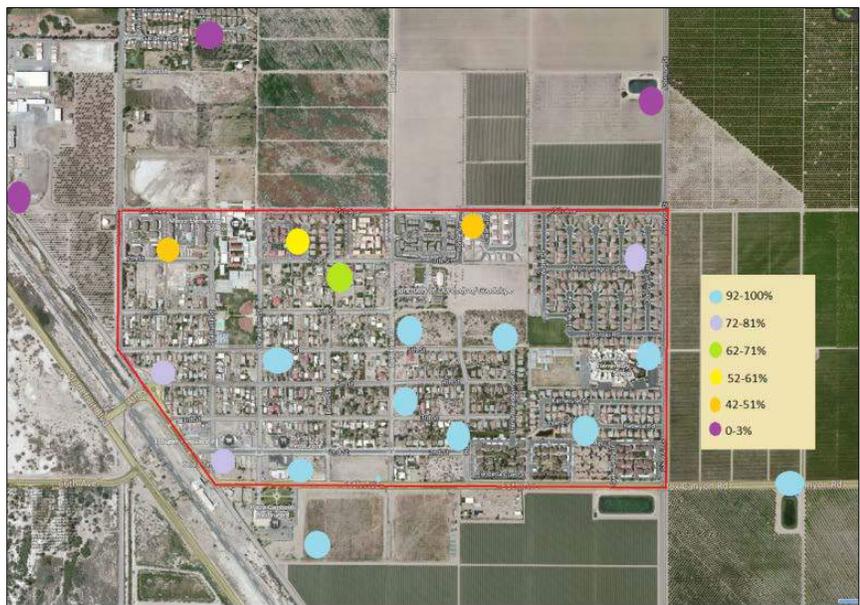
Mosquitofish (*Gambusia affinis*)

As of November 1, 2018, approximately 20,000 fish were stocked in neglected swimming pools, private ponds, detention basins, and animal water troughs. The District has moved all mosquitofish production to the outdoor rearing ponds.

Product Efficacy

QUALITY CONTROL ASSAYS. Quality control assays are conducted on the control products that we receive from manufacturers to ensure the products are effective after transport and storage. In 2018, we are assaying the Bti and *L. sphaericus* products (microbials). To determine if products are working, larvae are treated, and mortality is counted. Microbials produce toxins that destroy the stomach of larvae, so if they are working, we expect 100% larval mortality. The District received one formulation of a Bti product in September (VectoBac 12AS); all lot numbers had 100% larval mortality in the assays.

ONEGUARD BARRIER APPLICATION. OneGuard is a multi-mode-of-action concentrate with 4 active ingredients targeting the adult and larval stages. The benefit of using this product is the ease of mixing as opposed to Demand CS and the effective mosquito mortality or knockdown after short-term exposure. The District conducts barrier sprays on vegetation around the East valley to disrupt virus transmission and on properties following inspections for *Aedes aegypti*. The objective of this study is to evaluate whether OneGuard's residual lasts for 98 days with at least 80% mosquito mortality in our field conditions. With the help from Operations staff, we sprayed 2 rural plots of vegetation with OneGuard in late August. Plant materials are collected on a weekly basis since the first spray and *Culex quinquefasciatus* adults were exposed to the treated and control plants. Mortality was counted at intervals up to 120 hr. The product at one plot lost its efficacy after a rain



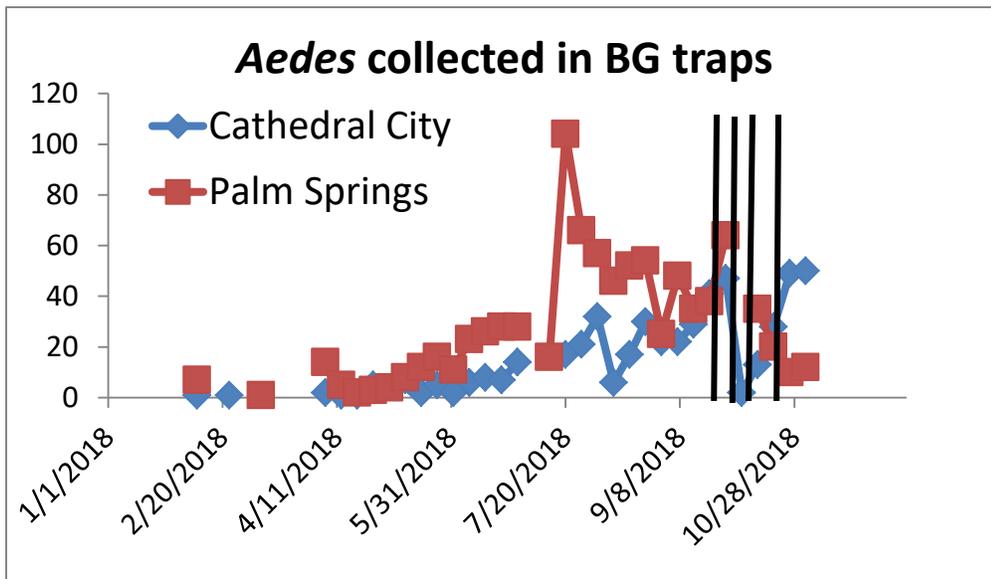
event in early October. The second plot is still showing over 90% mortality after 120 hr exposure. This project will continue until early December.

AERIAL LARVICIDE APPLICATIONS IN MECCA. District staff assessed aerial applications of VectoBac WDG (active ingredient: *Bacillus thuringiensis*) for the control of *Aedes aegypti* mosquitoes in Mecca. Applications were made using Salton Sea Air Authority with the Operations staff in September and October to a residential block covering

approximately 430 acres. To confirm that the equipment works over the entire application area, containers were placed in the open at 15 locations within the spray area, and at 5 locations outside of the spray area. Containers were placed the day before the aerial application and collected the next day, one hour after the application. The containers were returned to the lab where water and mosquitoes were added. Mortality was measured by examining the survivorship of living larvae, and we expected 100% larval mortality from cups inside the treatment area with no larval mortality in the cups outside of the treatment area. Not all areas were treated completely (map above). Larval mortality was lower for the containers placed in the outermost northern and western areas inside the residential block (shown in lilac, green, yellow, and orange). Containers placed on the south and southeast area outside the treatment block also showed larval mortality for all the applications (blue). Product drifted with the wind into the containers during applications, compared to the containers placed on the north and northwest area outside the treatment block (purple) which did not get treated.

TRUCK LARVICIDING IN PALM SPRINGS. District staff assessed truck larvicide applications of VectoBac WDG (active ingredient: *Bacillus thuringiensis*) for the control of *Aedes aegypti* mosquitoes in Palm Springs. Operations staff made truck-mounted larvicide applications in September and October in the residential neighborhoods covering approximately 1,059 acres. Two routes were used, allowing us to compare the efficacy of two pieces of equipment – a Curtis DynaFog LV-8 and an A1 Super Duty sprayer. To confirm that product would deposit in both the front and back yards, containers were placed at 28 residences within the application area; houses were categorized as upwind or downwind based on the side of the street. At each residence, 4 containers were placed in four locations: 1 in the front yard open (0% cover), 1 in the front yard covered from the open sky (100% cover, such as vegetation), 1 in the back yard open (0% cover), and 1 in the back yard covered (100% cover) from the open sky. Containers were placed the day before the applications and collected the next day, one hour after the application. Containers were returned to the lab where water and mosquito larvae were added. Mortality was measured by examining the survivorship of living larvae. The results show that product deposited in most of the containers.

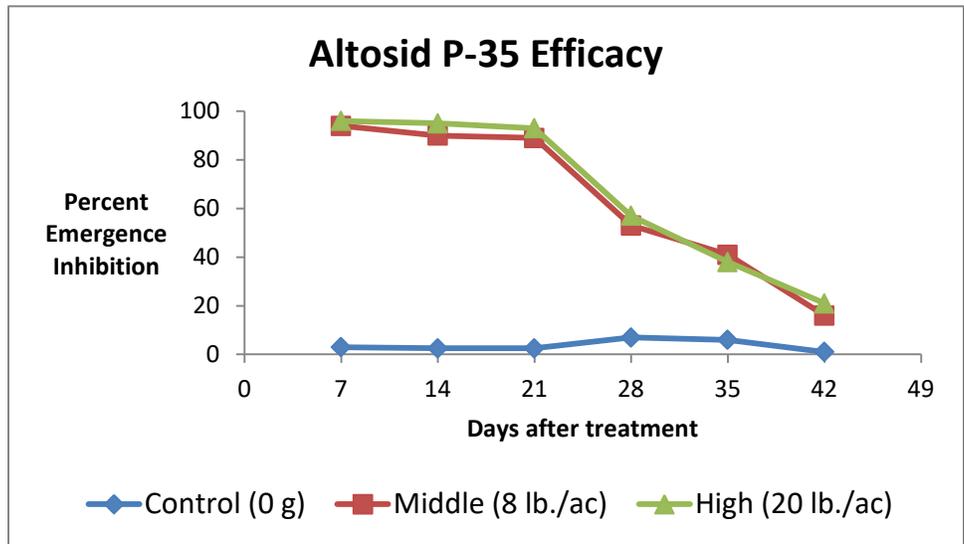
Downwind	
front open	98%
front cover	99%
back open	97%
back cover	96%
Upwind	
front open	97%
front cover	96%
back open	94%
back cover	94%



Slightly better control was seen when cups were placed downwind of the application compared to those on the upwind side. BG-Sentinel mosquito traps placed in the surrounding areas caught fewer *Aedes* mosquitoes following the applications in Palm Springs compared to the nearby area of Cathedral City (where the black lines indicate the application dates).

Additional analysis is being done on the equipment used to determine if there are differences in their ability to treat the area.

ALTOSID P-35. Altosid P-35 (active ingredient: (S)-methoprene) is a new granule formulation that states on its label to provide 35 days of residual control in continuously wet conditions. With extended release technology, this easy-to-use formulation also offers pre-treatment capabilities 15 days prior to flooding. As an insect growth regulator, it works by preventing larvae to complete development into adult mosquitoes. We tested the efficacy of two rates in 2 rural desert flood sites (8 and 20 lbs. per acre) using lab-reared 3rd-instar *Culex quinquefasciatus* larvae. Both rates were very effective for 21 days, then moderately effective during the 3rd and 4th week with continued reduced efficacy over time.



HOMEOWNER MOSQUITO CONTROL. Periodically residents ask about mosquito control products that can be purchased online or in home improvement centers. For those wishing to conduct mosquito control on their own property, we have reviewed the available products and have found the following options that can be legally obtained. District staff has examined all 7 products in microcosm ponds at this time. In nearly all instances, the product licensed for use by vector control technicians is more effective than the product licensed for use by private residents.

Operations

9/1/2018 to 9/30/2018 Report



77 Agriculture

APPLICATIONS

Applications	FORMULATION: DRY	Acreage
16	Bs/Bti	4.38
5	Bti	0.61
9	Methoprene	3.47
21	Spinosad	29.20
Applications	FORMULATION: LIQUID	Acreage
7	Bti	1.08
3	Methoprene	1.39
16	Spinosad	4.02



22 Duck Club

APPLICATIONS

Applications	FORMULATION: DRY	Acreage
3	Bs/Bti	1.95
2	Bti	1.10
5	Methoprene	28.29
8	Spinosad	61.65
Applications	FORMULATION: LIQUID	Acreage
4	Spinosad	1.61



274 Invasive Aedes

APPLICATIONS

Applications	FORMULATION: DRY	Acreage
90	Bti	0.74
Applications	FORMULATION: LIQUID	Acreage
1	(AE) surfactant	0.00
90	Barrier	0.74
93	Fogging	35.03



1,737 Residential

APPLICATIONS

Applications	FORMULATION: DRY	Acreage
34	Bs/Bti	0.26
200	Bti	2.03
538	Methoprene	1.78
484	Spinosad	1.45
Applications	FORMULATION: LIQUID	Acreage
20	(AE) surfactant	0.09
194	Bti	9.58
87	Methoprene	0.41
180	Spinosad	9.72



14 Salton Sea Marshes

APPLICATIONS

Applications	FORMULATION: DRY	Acreage
1	Bs/Bti	0.10
1	Bti	0.65
11	Spinosad	15.39
Applications	FORMULATION: LIQUID	Acreage
1	Spinosad	0.01

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

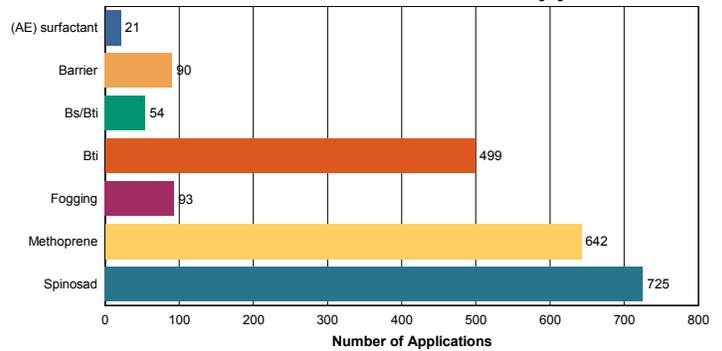
BS (*Bacillus sphaericus*) - soil-dwelling bacterium, used as a biological pesticide that during sporulation produce crystals that have insecticidal action when ingested by mosquito larvae

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 Applications



Product Breakdown

		Total		
		Count	Acreage	Cost
FORMULATION: DRY	Total	1,428	153.05	\$22,351.90
	Bs/Bti	54	6.69	\$799.22
	Bti	298	5.13	\$182.82
	Methoprene	552	33.54	\$8,762.84
	Spinosad	524	107.69	\$12,607.02
FORMULATION: LIQUID	Total	696	63.69	\$452.22
	(AE) surfactant	21	0.09	\$3.67
	Barrier	90	0.74	\$47.94
	Bti	201	10.66	\$97.37
	Fogging	93	35.03	\$34.25
	Methoprene	90	1.80	\$14.50
	Spinosad	201	15.37	\$254.50

Operations

9/1/2018 to 9/30/2018 Report



Scientific classification

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

Binomial name

Solenopsis invicta
 (Buren, 1972)



34 Country Club

APPLICATIONS

228.20 ACRES TREATED
 34 BROADCAST TREATMENTS



11 Golf Course

APPLICATIONS

977.84 ACRES TREATED
 11 BROADCAST TREATMENTS



141 Homeowner

APPLICATIONS

34.42 ACRES TREATED
 140 BROADCAST TREATMENTS
 1 SPOT TREATMENTS

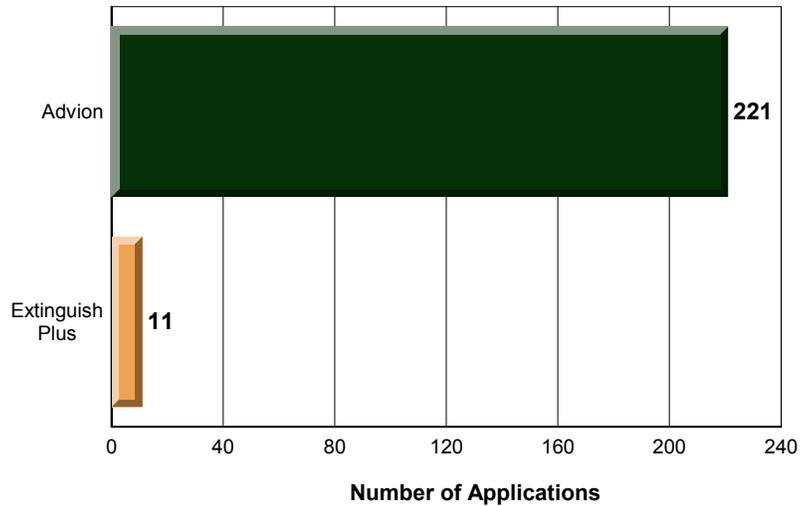


46 Park

APPLICATIONS

299.17 ACRES TREATED
 46 BROADCAST TREATMENTS

Product Applications



Product Breakdown

		Advion	Extinguish Plus
Total	Acreage	561.79	977.84
	Amount (lbs.)	842.80	1,466.02
	Cost	\$7,972.91	\$9,441.17

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.

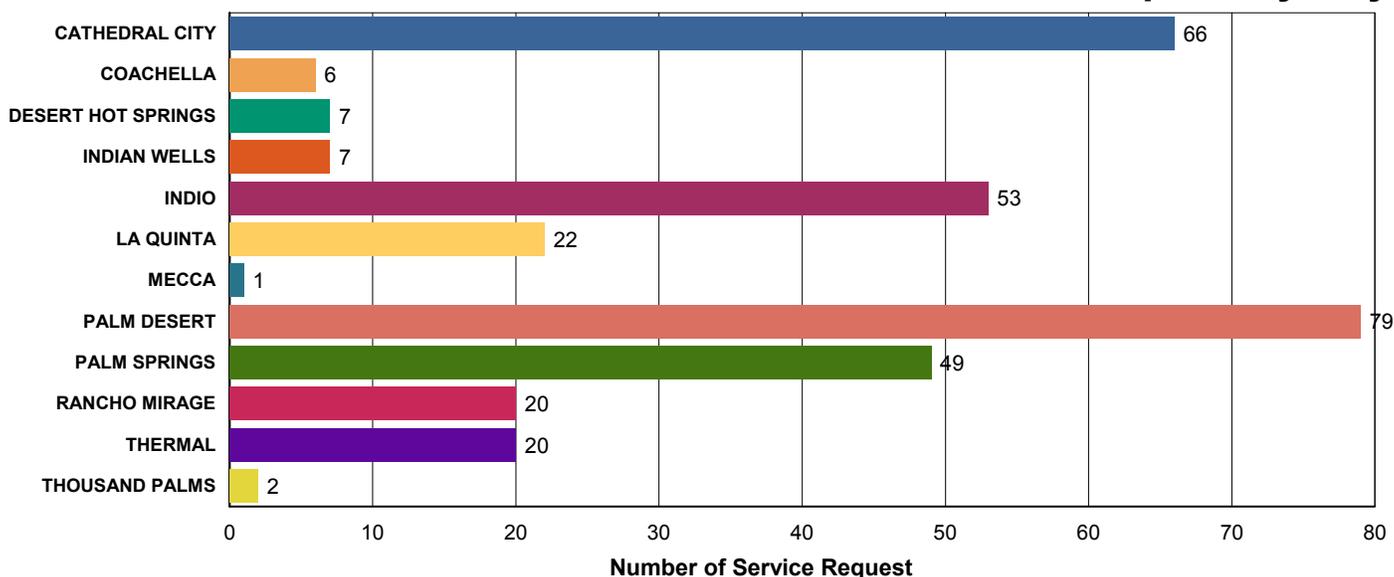
Operations

9/1/2018 to 9/30/2018 Report

Service Request Types

	TOTAL	STANDING WATER	NEGLECTED POOL	FLY/EYE GNATS	MOSQUITO	INVASIVE AEDES	RODENTS	BEEES	RIFA	OTHER
TOTAL	332	9	11	2	37	99	5	3	165	1
CATHEDRAL CITY	66	1	4	1	3	30	0	0	27	0
COACHELLA	6	0	0	0	2	3	0	0	1	0
DESERT HOT SPRINGS	7	1	0	1	0	0	1	3	1	0
INDIAN WELLS	7	0	0	0	2	0	0	0	5	0
INDIO	53	0	3	0	5	4	1	0	40	0
LA QUINTA	22	2	3	0	0	0	0	0	17	0
MECCA	1	1	0	0	0	0	0	0	0	0
PALM DESERT	79	1	1	0	7	38	2	0	29	1
PALM SPRINGS	49	3	0	0	2	23	1	0	20	0
RANCHO MIRAGE	20	0	0	0	1	1	0	0	18	0
THERMAL	20	0	0	0	15	0	0	0	5	0
THOUSAND PALMS	2	0	0	0	0	0	0	0	2	0

Service Request by City



Operations

10/1/2018 to 10/31/2018 Report



79 Agriculture

APPLICATIONS

Applications	FORMULATION: DRY	Acreage
11	Bs/Bti	1.89
8	Bti	8.07
8	Methoprene	1.11
31	Spinosad	12.82
Applications	FORMULATION: LIQUID	Acreage
7	Bti	1.60
5	Methoprene	1.13
9	Spinosad	1.90



77 Duck Club

APPLICATIONS

Applications	FORMULATION: DRY	Acreage
4	Bs/Bti	49.81
13	Bti	76.61
9	Methoprene	75.29
26	Spinosad	130.86
Applications	FORMULATION: LIQUID	Acreage
4	Bti	3.65
4	Methoprene	32.91
17	Spinosad	13.93



413 Invasive Aedes

APPLICATIONS

Applications	FORMULATION: DRY	Acreage
127	Bti	1.52
Applications	FORMULATION: LIQUID	Acreage
126	Barrier	1.53
159	Fogging	62.29
1	Spinosad	0.19



1,669 Residential

APPLICATIONS

Applications	FORMULATION: DRY	Acreage
54	Bs/Bti	0.16
129	Bti	0.39
456	Methoprene	1.61
573	Spinosad	3.93
Applications	FORMULATION: LIQUID	Acreage
18	(AE) surfactant	0.10
1	Barrier	0.01
138	Bti	11.64
1	Fogging	0.38
126	Methoprene	1.02
171	Spinosad	11.65



8 Salton Sea

Marshes

APPLICATIONS

Applications	FORMULATION: DRY	Acreage
1	Bti	3.43
6	Spinosad	7.12
Applications	FORMULATION: LIQUID	Acreage
1	Spinosad	0.00

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

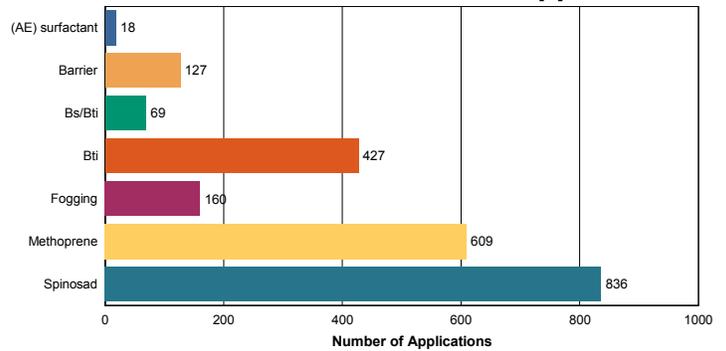
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Methoprene - used as a biological pesticide that mimics natural juvenile hormone of insects and acts as a growth regulator. Juvenile hormone must be absent from mosquito pupa to molt to an adult. Mosquito pupae treated with Methoprene will be unable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

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

Product Applications



Product Breakdown

		Total		
		Count	Acreage	Cost
FORMULATION: DRY	Total	1,457	374.63	\$43,194.95
	Bs/Bti	69	51.86	\$4,240.41
	Bti	278	90.02	\$2,133.64
	Methoprene	474	78.02	\$24,938.02
	Spinosad	636	154.73	\$11,882.89
FORMULATION: LIQUID	Total	789	143.92	\$1,003.68
	(AE) surfactant	18	0.10	\$4.04
	Barrier	127	1.53	\$99.04
	Bti	149	16.89	\$133.61
	Fogging	160	62.66	\$61.28
	Methoprene	135	35.05	\$297.62
	Spinosad	200	27.68	\$408.09

Operations

10/1/2018 to 10/31/2018 Report



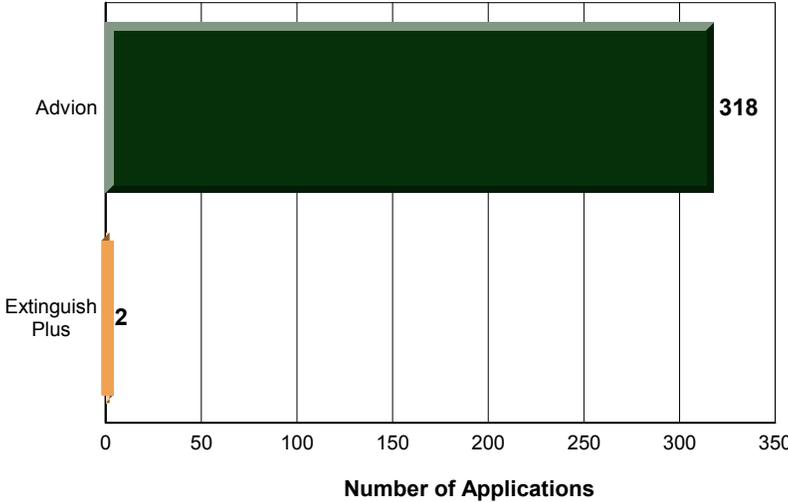
Scientific classification

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	446.08	118.07
Amount (lbs.)	669.20	177.12
Cost	\$6,330.63	\$1,140.65



46 Country Club

APPLICATIONS
 214.52 ACRES TREATED
 46 BROADCAST TREATMENTS



2 Golf Course

APPLICATIONS
 118.07 ACRES TREATED
 2 BROADCAST TREATMENTS



223 Homeowner

APPLICATIONS
 43.98 ACRES TREATED
 218 BROADCAST TREATMENTS
 5 SPOT TREATMENTS



43 Park

APPLICATIONS
 161.10 ACRES TREATED
 41 BROADCAST TREATMENTS
 2 SPOT TREATMENTS



6 School

APPLICATIONS
 26.47 ACRES TREATED
 6 BROADCAST TREATMENTS

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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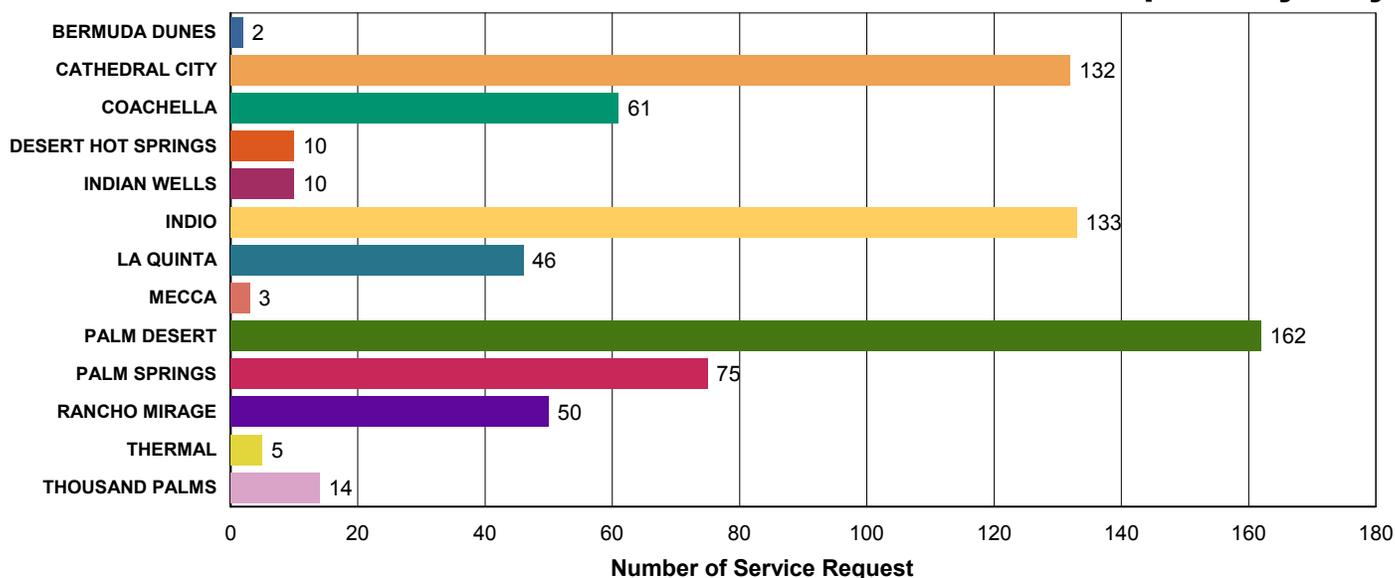
Operations

10/1/2018 to 10/31/2018 Report

Service Request Types

	TOTAL	STANDING WATER	NEGLECTED POOL	FLY/EYE GNATS	MOSQUITO	INVASIVE AEDES	RODENTS	BEEES	RIFA	OTHER
TOTAL	703	15	34	4	39	308	4	6	292	1
BERMUDA DUNES	2	0	0	0	0	0	0	0	2	0
CATHEDRAL CITY	132	1	6	0	3	78	0	0	44	0
COACHELLA	61	0	1	0	3	50	0	0	6	1
DESERT HOT SPRINGS	10	1	1	0	2	2	0	1	3	0
INDIAN WELLS	10	0	0	0	0	2	0	0	8	0
INDIO	133	3	7	1	6	49	1	2	64	0
LA QUINTA	46	1	6	0	5	2	1	1	30	0
MECCA	3	3	0	0	0	0	0	0	0	0
PALM DESERT	162	0	4	2	10	85	1	1	59	0
PALM SPRINGS	75	3	9	1	4	25	0	0	33	0
RANCHO MIRAGE	50	2	0	0	3	15	0	0	30	0
THERMAL	5	1	0	0	2	0	0	0	2	0
THOUSAND PALMS	14	0	0	0	1	0	1	1	11	0

Service Request by City





**Coachella Valley Mosquito and
Vector Control District**

November 13, 2018

Staff Report

Agenda Item: Items of General Consent

Approval of Fiscal Year 2018-2019 research proposals in an amount not to exceed \$150,000.00 from Fund 8510.01.600.000 – Research Projects *Budgeted; Funds Available* – **Jennifer A. Henke, M.S., Laboratory Manager**

Background:

The District has had a long beneficial relationship with the vector control researchers from universities and other state/federal organizations. The purpose of research funded by the District is to develop and evaluate applied vector and vector-borne disease surveillance and integrated vector management strategies. These projects ultimately improve the District’s operations and surveillance programs and make the best use of the District’s financial resources. Funded research leaves a legacy of knowledge in the form of publications and presentations that can be used by mosquito control districts in California, nationally, and around the world.

Proposals

The District received 4 research proposals. The proposals are summarized in the table below. Further summaries and estimates of potential benefits of each proposal follow:

#	Researcher	Title	Funds requested	Recommend for funding	Amount to fund
1	Oi	Improving fire ant bait efficacy in irrigated landscapes in the Coachella Valley (Year 2)	\$25,750.00	Yes	\$25,750.00
2	Walton	Field-testing bait stations for mosquito control in underground storm drain systems in the Coachella Valley (Year 2)	\$60,167.31	Yes	\$60,167.31
3	Coffey	Treating larval water with microbiota to reduce St. Louis encephalitis virus transmission by <i>Culex</i> mosquitoes (Year 1)	\$36,250.00	No	\$0.00
4	Nansen	Prototype development for rapid and reliable identification of mosquitoes (Year 1)	\$29,065.85	No	\$0.00

Proposal #1 – Oi: “Improving fire ant bait efficacy in irrigated landscapes in the Coachella Valley”

Summary – This is the 2nd year of a 2-year proposal. In the 2016 and 2017 work, some formulated fire ant baits were used with water to compare to a water-resistant bait. The formulated product showed good efficacy against fire ants. The 2018 work has focused on lab-based studies to determine the best performing commercially-available fire ant bait after being wetted. This proposed work is to test those products in the field here to confirm efficacy with our local population.

Potential benefits of proposed research – Irrigation practices in the Coachella Valley are highly favorable to colonization by fire ants but a challenge to the effectiveness of RIFA baits currently used by the District for control. When baits get wet, they are no longer attractive to fire ants, which can limit the effectiveness of our treatments. A great amount of effort is performed by District staff in coordinating fire ant treatments and ensuring irrigation water is shut prior and after treatments. Availability of a water-resistant bait would make a huge impact on the District’s scheduling practice and reliance on landowners to ensure irrigation water is shut off. The project is working with currently registered products, so positive results could be implemented relatively soon.

Proposal #2 – Walton: “Field-testing bait stations for mosquito control in underground storm drain systems in the Coachella Valley”

Summary – This is the 2nd year of a 2-year proposal. The project proposes to provide a comprehensive examination of the use of attractive toxic sugar baits (ATSB) for underground storm drain systems using fungus, pyriproxyfen (an insect growth regulator), and boric acid as the toxic substance. The proposed work examines the bait stations and their attractiveness in field scenarios. The researchers examine the sublethal impacts of the fungus and the chemicals. Besides directly killing the mosquitoes, these agents can reduce the number of eggs laid or reduce the blood-feeding activity of the mosquitoes, both of which would further impact the mosquito population. The researchers are also examining whether the adult mosquitoes can transfer pyriproxifen to oviposition sites, which would then have a direct effect on the mortality of larval mosquitoes. The study used a known number of laboratory-reared mosquitoes in year 1; in 2019, they plan to directly examine the impacts on the mosquito population in year 2.

Potential benefits – The study examines both the immediate impacts and long-term impacts of using these bait stations. Successful bait stations could be deployed in areas where arbovirus has been detected or in response to high numbers of adult mosquitoes within our urban environment. The agents used in these bait stations are commercially available but are not part of the District’s current control efforts, widening our arsenal against mosquitoes. If the use of the pyriproxifen is successful, this can have cascading impacts on the mosquito population by providing control of larvae in sites visited by the dosed adults.

Proposal #3 – Coffey: “Treating larval water with microbiota to reduce St. Louis encephalitis virus transmission by *Culex* mosquitoes.”

Summary – This is the 1st year of a 2-year proposal. In at least one other instance, the microbes that live in a mosquito has been found to reduce the ability of that mosquito to transmit a virus. This project seeks to determine the microbes naturally occurring within *Culex* mosquitoes from the Coachella Valley, challenge those mosquitoes with St. Louis

encephalitis, and compare the differences in the microbes between those that are able to transmit virus from those that are not able. Work in 2019 would include collections and lab work. If a particular bacterium is found in mosquitoes that are exposed to virus but are not found to have a disseminated infection, work in 2020 would look to see if that species could be enhanced in the environment.

Rationale for not funding – The project has the potential to take mosquito control in new directions and explores the novel idea of modifying microbes to have larger impacts. The ability to enhance naturally occurring populations of microbes is intriguing. The District typically funds projects that are closer to implementation phases, and the proposed work is more exploratory in nature.

Proposal #4 – Nansen: “Prototype development for rapid and reliable identification of mosquitoes.”

Summary – This is the 1st year of a 2-year proposal. This project focuses on testing an automatic species-specific mosquito counting device. The researchers have tested their work using field caught mosquitoes at another agency. The first year is spent developing the hardware, collection samples of mosquitoes, and working with the software for classifying the mosquitoes. The device takes advantage of machine learning algorithms to allow for variations in the specimens and in the side being imaged to allow for correct identification.

Rationale for not funding – The project has the potential to free up staff hours away from microscopes. Current staff are well trained on mosquitoes and can identify them quickly, but identification of the samples takes a lot of time, particularly from traps that have caught large numbers of mosquitoes. Although the work may provide future savings in time spent, the work would also benefit from more inputs from a number of agencies. The project is better funded by a state or regional grant instead of the District.

Staff Recommendation:

- Approval of funding for proposals listed under #1 and 2 in an amount not to exceed \$85,917.31
- To take any action the Board deems appropriate.

Fiscal Impact:

- The funds will be available from FY2018-2019 budget line item # 8510.01.600.000 – Research Projects balance \$150,000.00. These proposals represent 57% of the budget line item.



Coachella Valley Mosquito and Vector Control District

November 13, 2018

Staff Report

Agenda Item: Items of General Consent

Approval of Resolution 2018-17 providing a gift certificate to employees for work performed late November through early December, 2018, in a total collective amount for all certificates not to exceed \$2,760.00 from Fund 5300.01.200.000 – Employee Incentive *Budgeted; Funds Available* – **Jeremy Wittie, M.S., General Manager**

Background:

Each year the District recognizes and incentivizes the work and contributions of its employees made throughout the season and who continue to work during the holiday season with a gift certificate (“Gift Certificate”). The Gift Certificate would be provided in the same amount as last year, forty dollars (\$40).

The Gift Certificates serve a legitimate public purpose by incentivizing employees to continue to work during the holiday season which would advance the protection of public safety by reducing the risk of disease transmission by mosquitoes and other vectors for residents and visitors of the Coachella Valley.

The attached Resolution authorizes the General Manager to purchase the Gift Certificates, and authorizes providing the Gift Certificates to each employee who works for the District from November 26, 2018, through December 7, 2018.

Staff Recommendation:

- Approve Resolution 2018-07 providing Gift Certificates to employees for work performed late November through early December, from Fund #5300.01.200.000 – Employee Incentive.

Fiscal Impact:

FY2018-19 Adopted Budget 5300.01.200.000	Current Available Funds	Proposed Expense	Remaining Available Funds
6,000	6,000	2,760	3,240

Attachments:

- Resolution 2018-17

Resolution No. 2018-17

A RESOLUTION OF THE BOARD OF TRUSTEES OF THE COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT PROVIDING GIFT CERTIFICATES TO DISTRICT EMPLOYEES WHO CONTINUE TO WORK FOR THE DISTRICT LATE NOVEMBER THROUGH EARLY DECEMBER 2018

WHEREAS, the Coachella Valley Mosquito and Vector Control District (“District”) is a special district and a political sub-division of the State of California, created and operating under the authority and provisions of California Health and Safety Code Section 2000 et seq., and is also a “local agency” within the meaning of Section 53600 of the California Government Code; and

WHEREAS, the Board of Trustees (“Board”) of the District desires to recognize the District’s appreciation of the contributions of District employees who work throughout the 2018 season; and

WHEREAS, the Board believes that such recognition serves a legitimate public purpose because it advances the protection of public safety by incentivizing employees to continue to work during the arbovirus and holiday seasons toward reducing the risk of disease transmission by mosquitoes and other vectors for residents and visitors of the Coachella Valley.

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. Gift Certificates.

Each full time employee employed by the District from November 26, 2018, through December 7, 2018, shall be provided a gift certificate valued at forty dollars (\$40.00).

Section 3. Public Purpose.

The provision of the subject gift certificates will serve a legitimate public purpose because it advances the protection of public safety.

Section 4. General Manager’s Authority.

The General Manager is authorized to procure sufficient gift certificates to effectuate the foregoing.

Section 5. Effective Date.

This Resolution shall take effect upon its adoption.

Section 5. 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.

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

**Shelley Kaplan, President
Board of Trustees**

ATTEST:

Grace Morales, Clerk of the Board

APPROVED AS TO FORM:

M. Kathy Jenson, General Counsel

REVIEWED:

Jeremy Wittie, M.S., General Manager



**Coachella Valley Mosquito and Vector
Control District**

Staff Report

**November 13,
2018**

Agenda Item: Items of General Consent

Approval of District Travel for Miguel Vargas, Vector Control Technician I to attend the Mosquito and Vector Control Association of California Annual Conference in an amount not to exceed \$1,000.00 from Fund 6110.01.500.023 – MVCAC Conference Expense *Budgeted; Funds Available* – **J. Wakoli Wekesa, PhD., Operations Manager**

Background:

The Operation Department encourages and motivates field technicians to not only take their assigned work seriously, but look at it as a noble profession of keeping the public safe from infectious diseases. In 2018, field technicians were challenged to look for innovative ideas, processes, and procedures currently used in the department that may be showcased in a “show and tell” at the upcoming MVCAC. Five abstracts were submitted by our September 5, 2018 deadline and two of these abstracts were selected for presentation as posters at the upcoming meeting. Jeff Rushing and Miguel Vargas, working with their supervisors, wrote the two abstracts that will be presented by the field technicians at MVCAC at Burlingame, CA (abstracts are attached).

One slot for a field technician to attend MVCAC was already in the 2018/19 budget. The second slot had not been budgeted for and it is hereby requested. Changes were made in the travel accommodations of staff to stay within the total budget for this line item. The cost for this additional employee shall not exceed \$1,000.00.

Staff Recommendation:

The Operations Department is requesting Board approval to send one additional field technician to the MVCAC annual conference not to exceed \$1,000.00

Fiscal Impact:

FY2018-19	Current Available Funds	Proposed Expense	Remaining Available Funds
6110.01.500.023	6,000	1,000	5,000



**Coachella Valley Mosquito and Vector
Control District**

Staff Report

**November 13,
2018**

Agenda Item: Items of General Consent

Approval to re-administer Employee Satisfaction Survey by CPS HR Consulting in alignment with Strategic Plan, in an amount not to exceed \$5,760.00 from 6095.01.202.000 – Professional Fees *Budgeted; Funds Available* – **Anita Jones, Human Resources Manager**

Background:

The District's *Strategic Plan, Human Resources and Governance Strategy #3.3.0*, approved by the Board of Trustees, specified that the District develop and conduct an employee satisfaction survey. In 2012, the District contracted with *CPS HR Consulting* to design, administer, and analyze survey results. CPS HR Consulting ("CPS") is a self-supporting public agency that has worked with a significant number of public agencies. Re-administering the same survey as previously given will allow the District to measure progress made from the prior survey and assess whether any new problems have emerged.

Staff Recommendation:

- Staff recommends that the Board of Trustees approve using CPS HR Consulting to re-administer the Employee Satisfaction Survey.

Fiscal Impact:

FY2019-20 Budget 6095.01.202.000	Current Available Funds	Proposed Expense	Remaining Available Funds
\$6,500	\$6,500	\$5,760	\$740

**SECTION
12**



OLD BUSINESS



**Coachella Valley Mosquito and Vector
Control District**

Staff Report

**November 13,
2018**

Agenda Item: Old Business

Discussion and approval to enter into a Public Works contract with ABC Liovin Drilling, the lowest responsible bidder, for well destruction in an amount not to exceed \$30,000.00 from Capital Facility Replacement Fund *Budgeted; Funds Available* – **David I’Anson, Administrative Finance Manager**

Background:

The District’s water well has not been operating since January 2018; the well water is used for the fish ponds and for landscape irrigation purposes. A camera inspection of the well determined that it was no longer viable due to age, type of casing, and integrity of casing. The cost to construct a new well would be over \$100,000. Reviewing the operating costs of the well (approximately \$1,000 per month for electricity versus an extra \$300 a month for city water) staff recommends destruction of the well, using City water instead.

At the July Meeting, the board directed staff to research regulations regarding destruction and to issue a Request for Proposal for Well Destruction. The District issued the RFP on October 15 seeking qualified DIR registered Well Drilling Contractors with C-57 license, under prevailing wage laws to facilitate the water well destruction. A qualified contractor is required to facilitate the abandonment of our existing well, following the requirements of California Water Well Destruction Standards and Riverside County Department of Environmental Health for well abandonment.

The District received two bids: ABC Liovin Drilling (\$24,500) and Southwest Pump & Drilling (\$25,921).

Staff Recommendation:

Approval to enter into a Public Works contract with ABC Liovin Drilling, the lowest responsible bidder, for well destruction in an amount not to exceed \$30,000 from the Capital Facility Replacement Fund

Fiscal Impact:

FY2018-19 Adopted Budget	Current Available Funds	Proposed Expense	Remaining Available Funds
<i>Capital Facility Replacement Fund</i>	1,599,967	30,000	1,569,967

**SECTION
13**



NEW BUSINESS



Coachella Valley Mosquito and Vector Control District

Staff Report

November 13,
2018

Agenda Item: New Business

Discussion and/or approval for the District to negotiate and execute a License Agreement or, some other form of agreement (i.e., easement), with the Coachella Valley Association of Governments (CVAG) to use a portion of Coachella Valley Mosquito Vector Control District property for the construction of CV Link and an access point. **Tom Kirk, Executive Director, CVAG**

Background:

The Coachella Valley Association of Governments (CVAG) has been actively working on a plan to build a multi-modal pathway across the Coachella Valley since 2011. CV Link is designed to provide safe access and connectivity for pedestrians, bicyclists, and low-speed electrical vehicles. In May 2017, the CVAG Executive Committee approved a 40±-mile route extending between the City of Palm Springs and the City of Coachella along the levees of the Whitewater River Channel/Coachella Valley Storm Water Channel, Tahquitz Creek, and on city streets. The project involves multiple access points across the valley. The project does not extend through the Cities of Rancho Mirage and Indian Wells (See Exhibit A). The first segment of the project – stretching 2.3 miles between Vista Chino Road in Palm Springs and Ramon Road in Cathedral City – opened in February 2018.

CVAG has secured the funding to build the project, which is estimated at \$100 million. CVAG has also completed the environmental work required under the California Environmental Quality Act (CEQA) and the federal National Environmental Policy Act (NEPA). With the environmental documents approved, CVAG has started the process of acquiring the necessary right-of-way for the project to construct the rest of the project. In September 2017, the CVAG Executive Committee approved a contract with Riverside County Economic Development Agency (EDA) for right-of-way services.

Most of the right-of-way associated with the project is either owned or controlled by flood control easements by the Coachella Valley Water District (CVWD) or Riverside County Flood Control District & Water Conservation District. Some properties along the pathway are owned by other parties, including the Coachella Valley Mosquito & Vector Control District, which owns vacant property adjacent to its headquarters building. Not all the required right-of-way is being acquired in the conventional manner, such as easements and in-fee. Rather, much of the right of way involves license agreements or some other form of agreement between CVAG and the other parties.

CVAG has recently been in discussions with General Manager Jeremy Wittie and Board President Shelley Kaplan about the possibility of entering into an agreement with CVAG to use a portion of Coachella Valley Mosquito Vector Control District property to create an access point to CV Link. Based on the discussion, three options were discussed. Option 1

would utilize a portion immediately adjacent to and east of the District's headquarters property. Options 2 and 3 propose to utilize a portion of the District's property but are farther east from the headquarters. All three options would provide access to CV Link.

A CV Link access point would enhance the plans that the Desert Recreation District has presented to the District in the past to use the same property for potential recreational uses. Having the connection to CV Link at this location would encourage use of the space for recreational uses on the District's property. It also furthers the goals of CV Link to connect parks, employment centers and commercial developments.

CVAG would like to negotiate and execute a license agreement with the District to use a portion of the District's property for an access point to CV Link based on the selected option. The agreement will make CVAG responsible for the operations and maintenance of the CV Link-related improvements and indemnify the District.

Staff Recommendation:

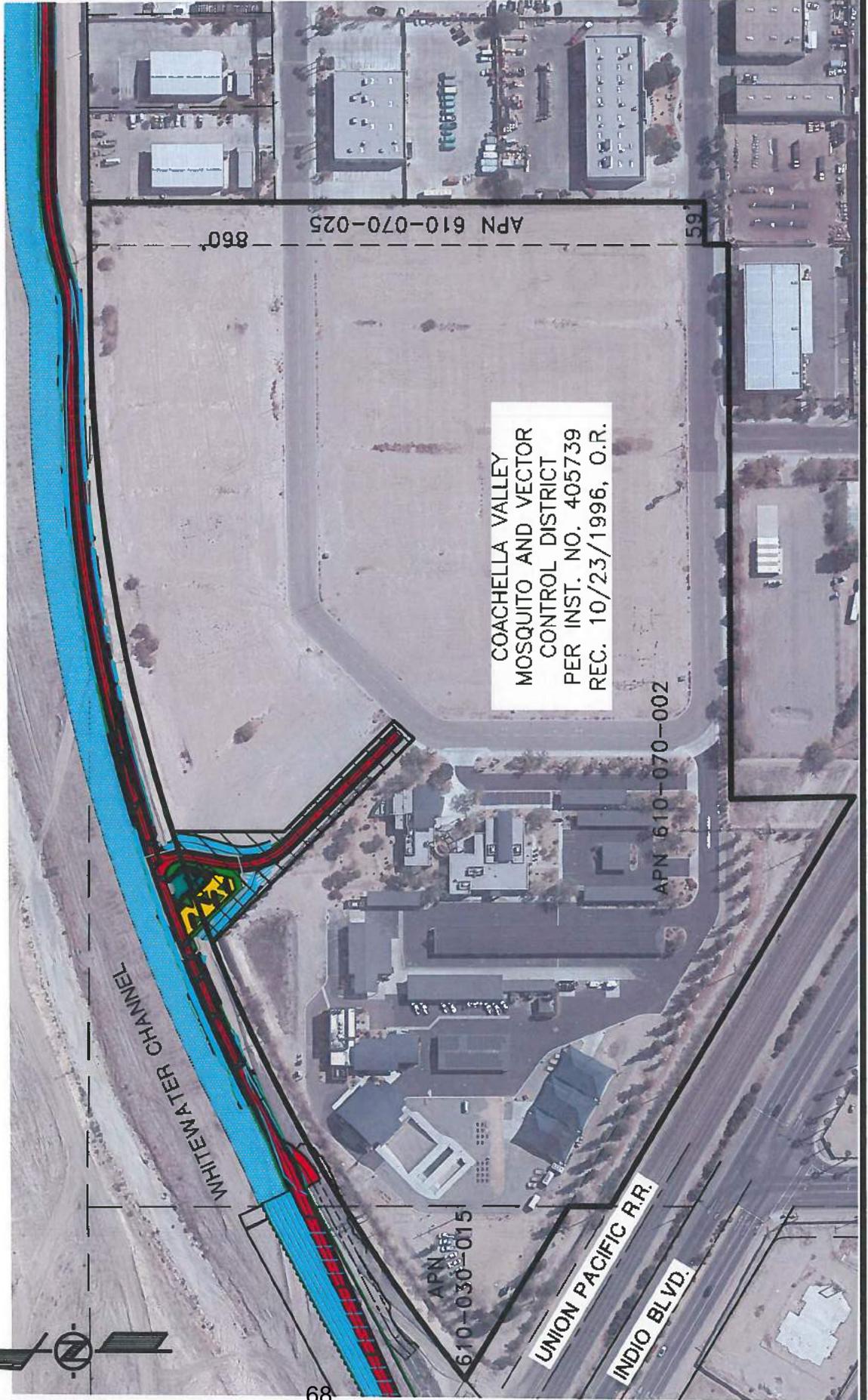
Whatever the board deems necessary

Exhibit A - CV-Link Map



OPTION 1

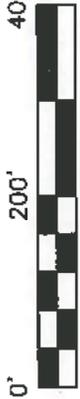
CV LINK EASEMENT
APN 610-070-002 COACHELLA VALLEY MOSQUITO AND
VECTOR CONTROL DISTRICT
SEC. 15, T.5S., R.7E., SBM
CITY OF INDIO



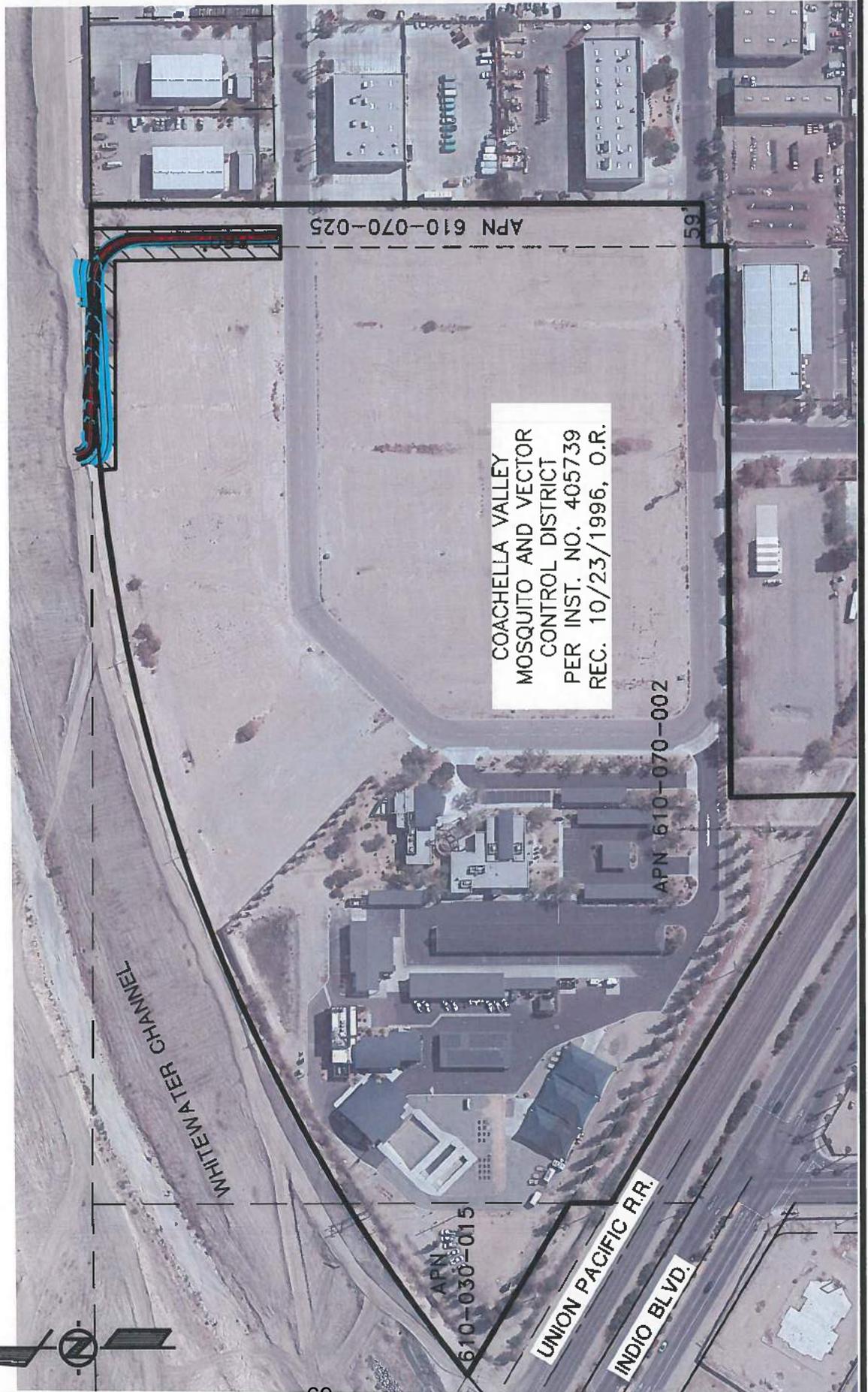
OPTION 2

CV LINK EASEMENT

APN 610-070-002 COACHELLA VALLEY MOSQUITO AND
VECTOR CONTROL DISTRICT
SEC. 15, T.5S., R.7E., SBM
CITY OF INDIO

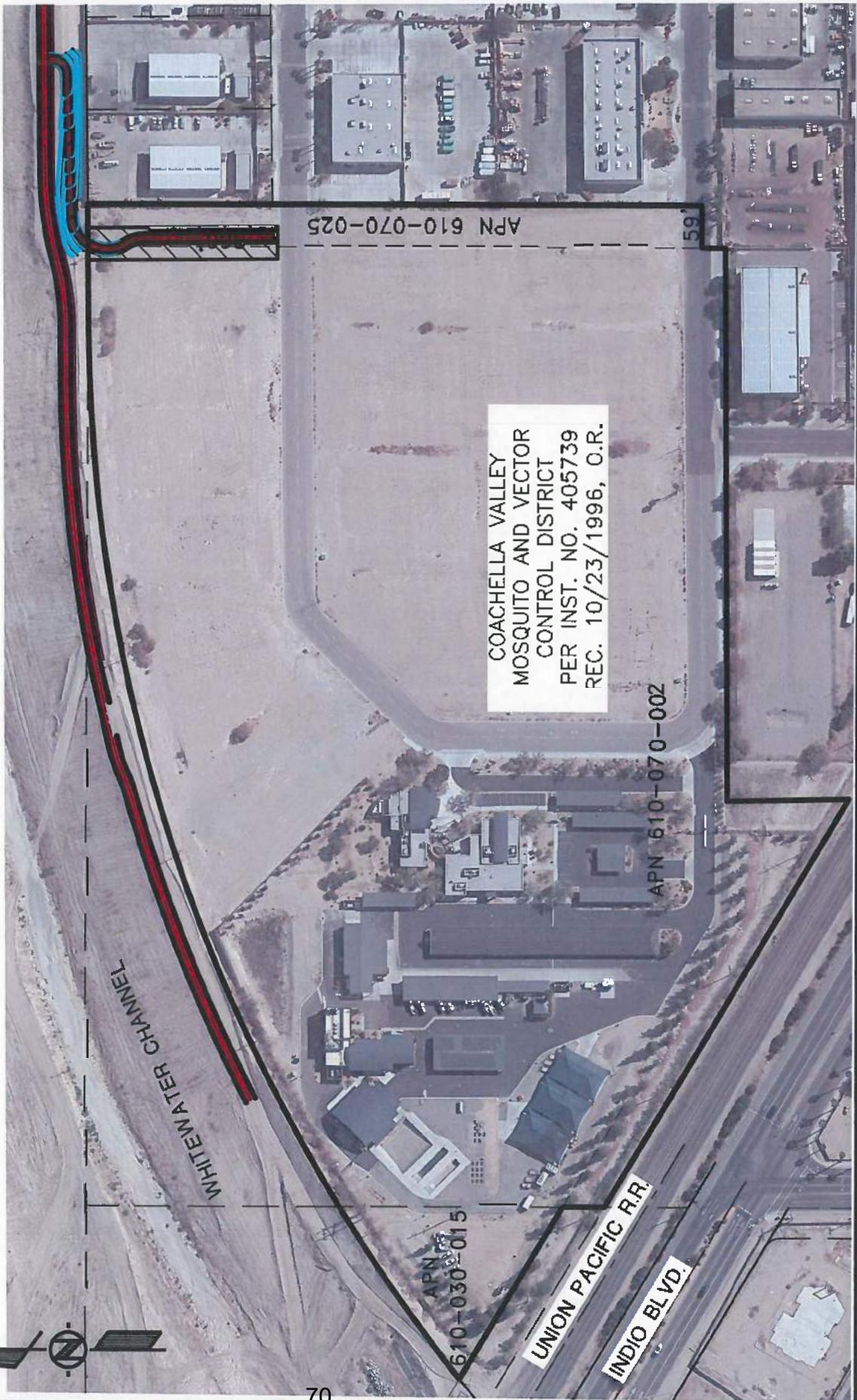
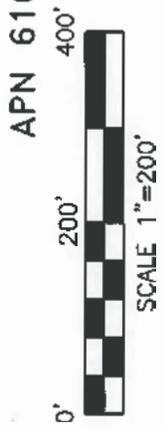


SCALE 1"=200'



OPTION 3

CV LINK EASEMENT
APN 610-070-002 COACHELLA VALLEY MOSQUITO AND
VECTOR CONTROL DISTRICT
SEC. 15, T.5S., R.7E., SBM
CITY OF INDIO





Coachella Valley Mosquito and Vector Control District

Staff Report

November 13, 2018

Agenda Item: New Business

Approval to purchase one new Genie GS 1930 Scissor Lift from Herc Rentals through US Communities Cooperative in an amount not to exceed \$13,000 from Capital Replacement Equipment Fund *Budgeted; Funds Available* – **David l’Anson, Administrative Finance Manager**

Background:

The District utility staff request the purchase of a 19-foot battery operated scissor lift for use in routine maintenance programs throughout the facility, for example, cleaning solar panels, cleaning shade structure, cleaning windows and replacing bulbs. Currently, staff uses a forklift for accessing high areas which require two people. The requested scissor lift will be purchased through the US Communities and can be operated singularly.

The requested model is the Genie GS-1930. It is battery operated; Self-Propelled Scissor Lift with a 19ft. lift height. It has a sturdy steel platform with a large 36in. steel extension deck for added reach and an expanded work area. Its total capacity is 500-lbs., and 250-lb. capacity on an extension deck. Complies with ANSI A92.6 standards. Industrial use, only. Price includes mandatory post-delivery inspection and product familiarization training for up to six people provided by Genie. Genie will contact the customer prior to delivery to schedule the inspection and familiarization training appointment. Made in the U.S.A.



The recent reserve study calls for the repair of the pergolas which will also need a lift for access.

Staff Recommendation:

Approve the purchase of one new Genie GS 1930 Scissor Lift from Herc Rentals through US Communities Cooperative in an amount not to exceed \$13,000

Fiscal Impact:

FY2018-19 Adopted Budget <i>Capital Equipment Replacement Fund - Facilities Equipment</i>	Current Available Funds	Proposed Expense	Remaining Available Funds
25,000	25,000	13,000	12,000