



OPERATIONS and SERVICES in YOUR COMMUNITY

Pasadena City Council Meeting
November 06, 2023

Presented by:

JASON FARNED | DISTRICT MANAGER

San Gabriel Valley Mosquito and Vector Control District



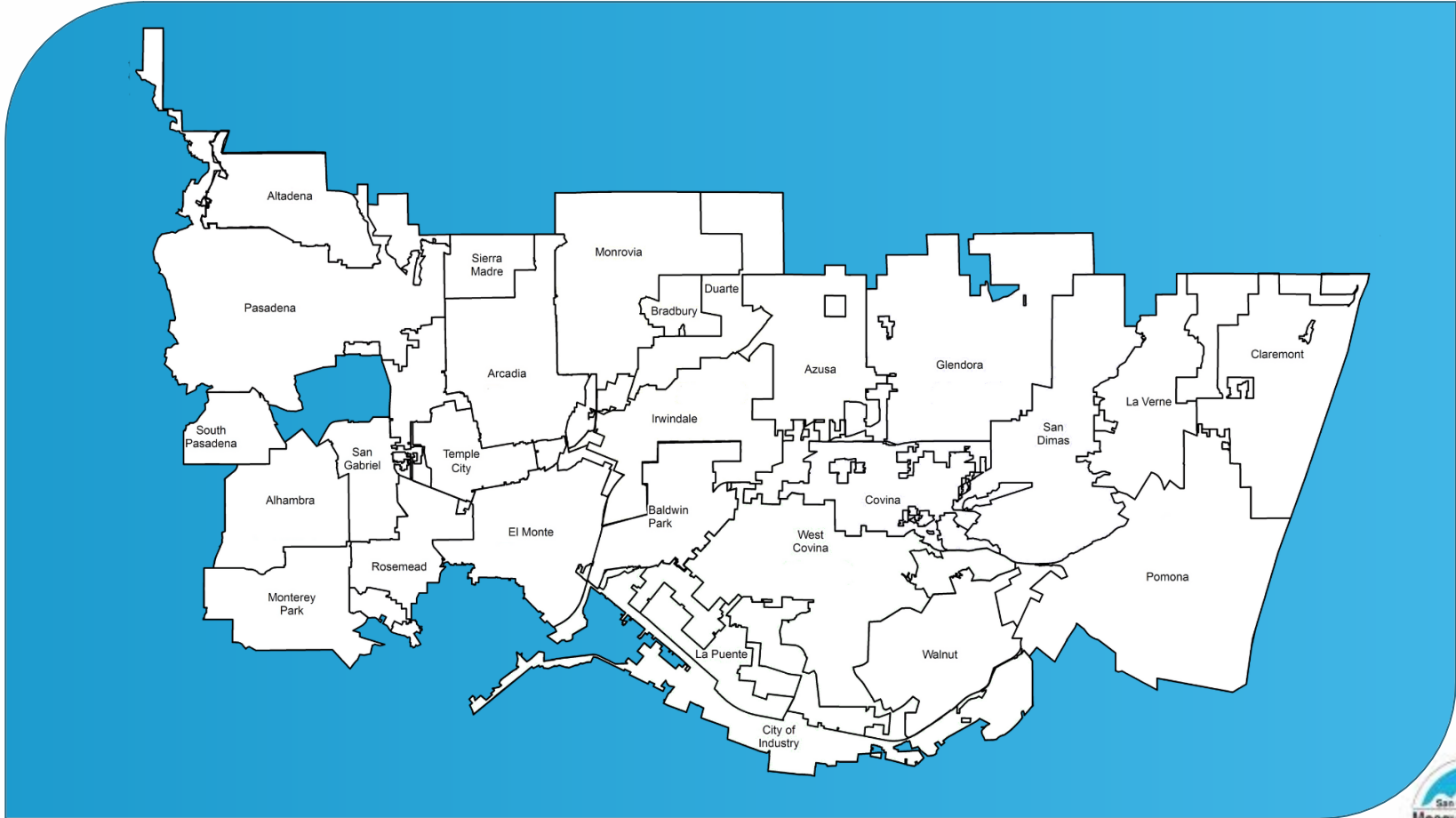
San Gabriel Valley Mosquito & Vector Control District

We monitor and control for mosquito-borne disease in the community while supporting residents to keep their properties bite-free.

By the numbers:

- We serve 26 cities and unincorporated L.A. County communities in San Gabriel Valley
- 1.5 million residents
- We have 37 full-time employees
- \$16.90 per year, per parcel







- The District was formed in 1989 to protect residents from vector-borne diseases.
- SGV Mosquito is one of five mosquito control districts that serve Los Angeles County.
- The California Health and Safety Code §2000-2067 grants authority to vector control districts.



MOSQUITOES IN YOUR CITY

CULEX MOSQUITOES

- Native
- Active at Dusk & Dawn
- Transmit West Nile virus (“Bird Disease”)

West Nile Virus

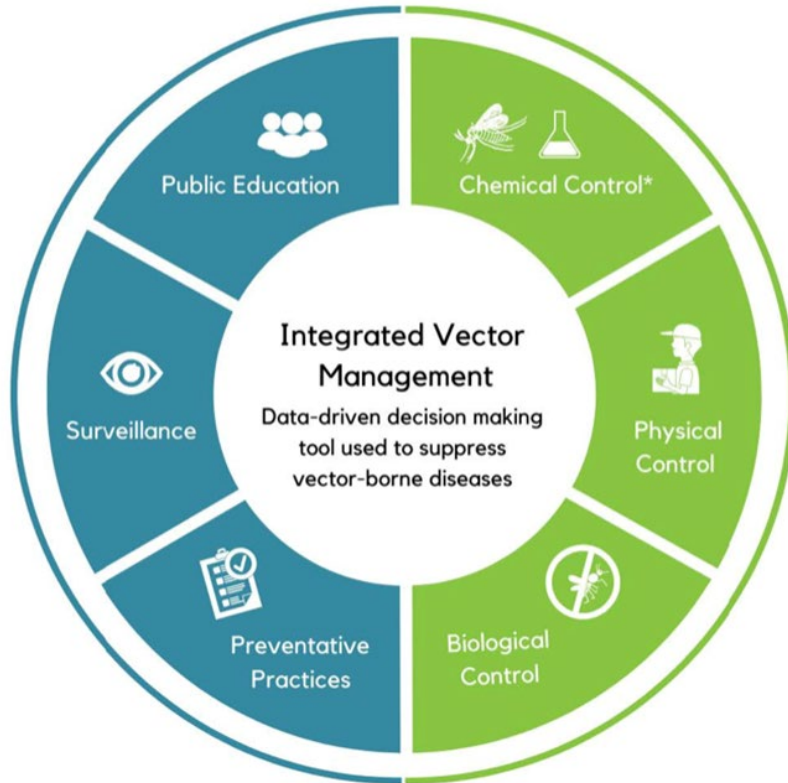
- Flu-like symptoms for 1 in 5 people infected
- Central nervous system affected for 1 in 150 people infected



AEDES MOSQUITOES

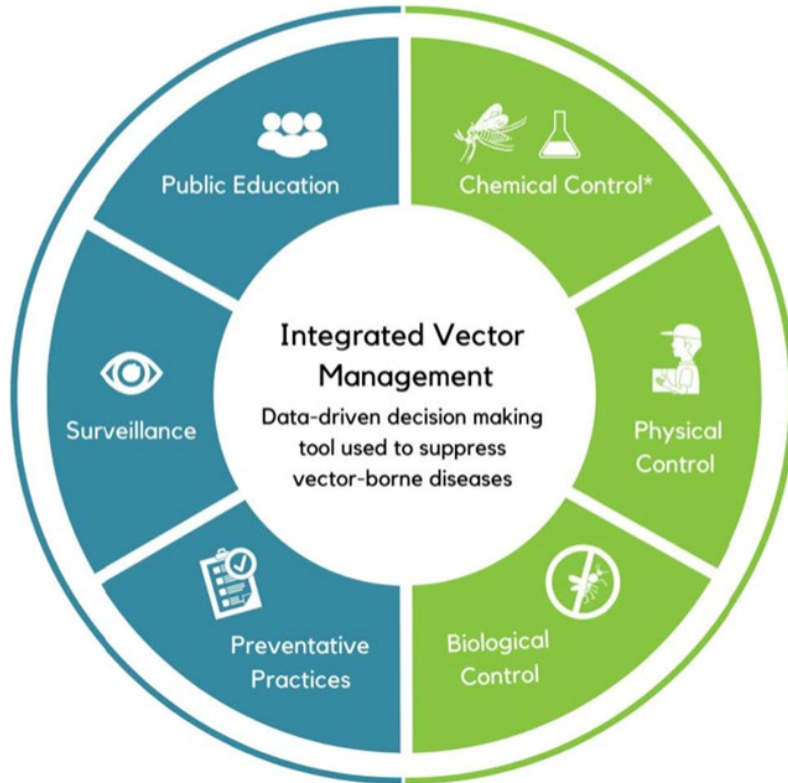
- Invasive
 - Day-time biter
 - Transmits Zika, dengue, canine heartworm
-
- Develops resistance to adult pesticides
 - Imported travel cases
 - Potential for outbreak

San Gabriel Valley Mosquito & Vector Control District



- Surveillance and Risk Assessment
- Public Education and Community Outreach
- Prevention through Mosquito Control and Water Management

San Gabriel Valley Mosquito & Vector Control District



- Natural Predators and Biological Controls
- Chemical Control
- Eliminating Mosquito Habitat



**MOSQUITO
TRAPPING**



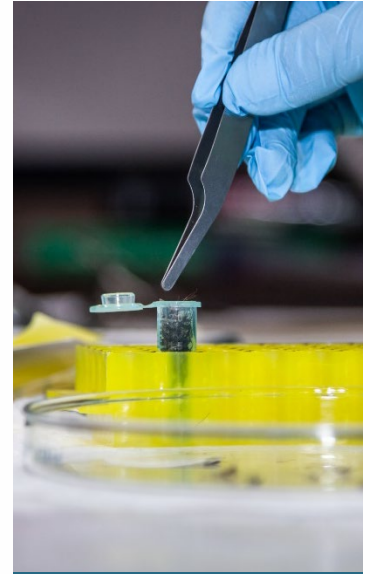
**DISEASE
SURVEILLANCE**



**DEAD BIRD
COLLECTION**



**INSECT
IDENTIFICATION**



**MOSQUITO
TESTING**

SURVEILLANCE



PUBLIC INFORMATION

- Presentations
- Town Halls
- Social Media



OUTREACH

- Community Events
- Door-to-Door
- Seasonal Campaigns



EDUCATION

- In-Class Programs
- Citizen Science
- Summer Programs



EcoHealth

Vector Education

Promoting simple, healthy living to reduce mosquito-borne diseases in our cities through **FREE CA NGSS-aligned** student science programs.





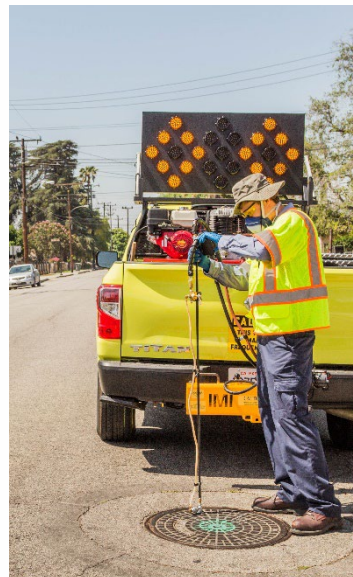
**COMMUNITY
SOURCES**



**RESIDENTIAL
CONSULTATION**



**GREEN SWIMMING
POOLS**



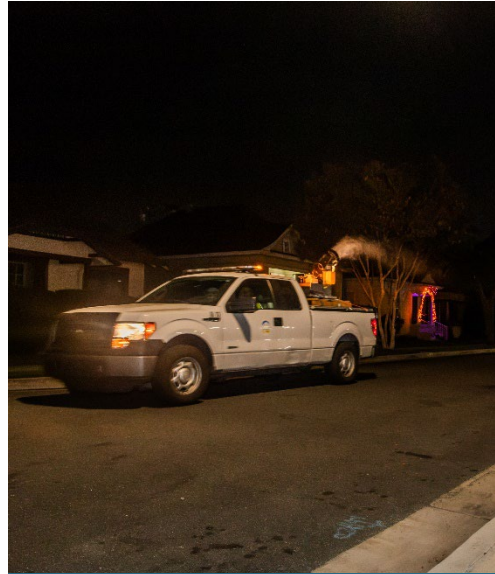
**UNDERGROUND
STORM DRAINS**



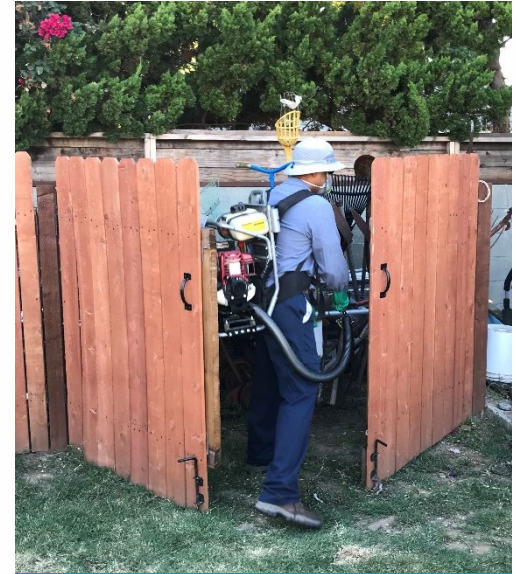
**BLACK FLY
CONTROL**

OPERATIONS – LARVAL CONTROL

OPERATIONS - ADULT CONTROL



**TRUCK-MOUNTED
TREATMENT**



**BACKPACK
TREATMENT**

ENHANCED NEIGHBORHOOD SUPPORT (ENS)

Data driven, focused support for communities with elevated risk of disease.

Mosquito Control

- Door-to-door inspections
- Door hangers
- Adult treatment (if needed)

Surveillance

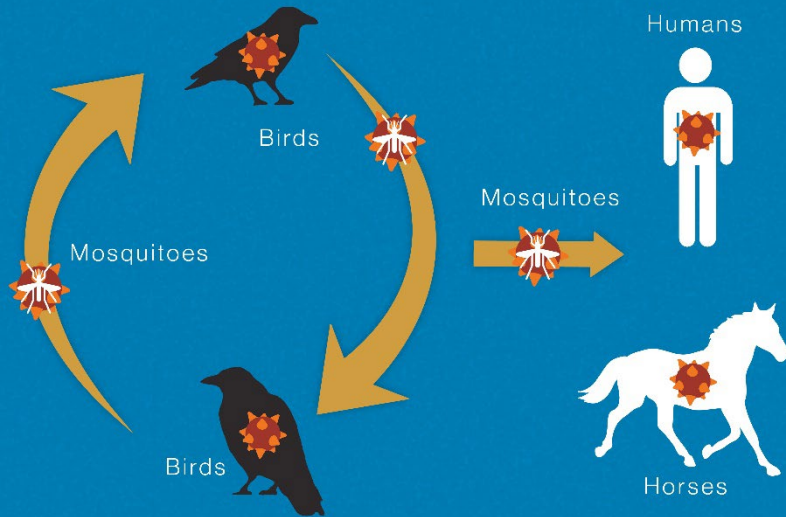
- Additional trapping and testing

Communication

- Targeted messaging and content
- Media Release (if needed)

West Nile virus Transmission Cycle

West Nile virus (WNV) is most commonly spread to people by the bite of an infected mosquito.

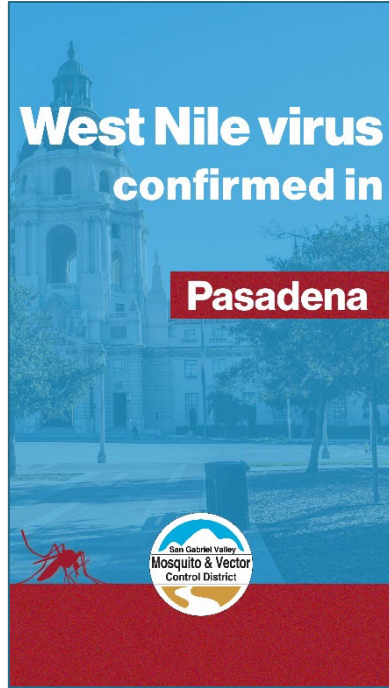


WEST NILE VIRUS

- Detected in L.A. County in 2004
- Flu-like symptoms for 1 in 5 people infected
- Central nervous system affected for 1 in 150 people infected
 - Encephalitis (inflammation of the brain)
 - Meningitis (inflammation of membranes that surround brain and spinal cord)
- No cure or human vaccine

West Nile virus+ Detection Process

1. Alert City Trustee and Staff
2. Inspect known sources and search for new ones
3. Monitor surveillance
4. Notify residents through multiple methods
5. Activate ENS during elevated risk

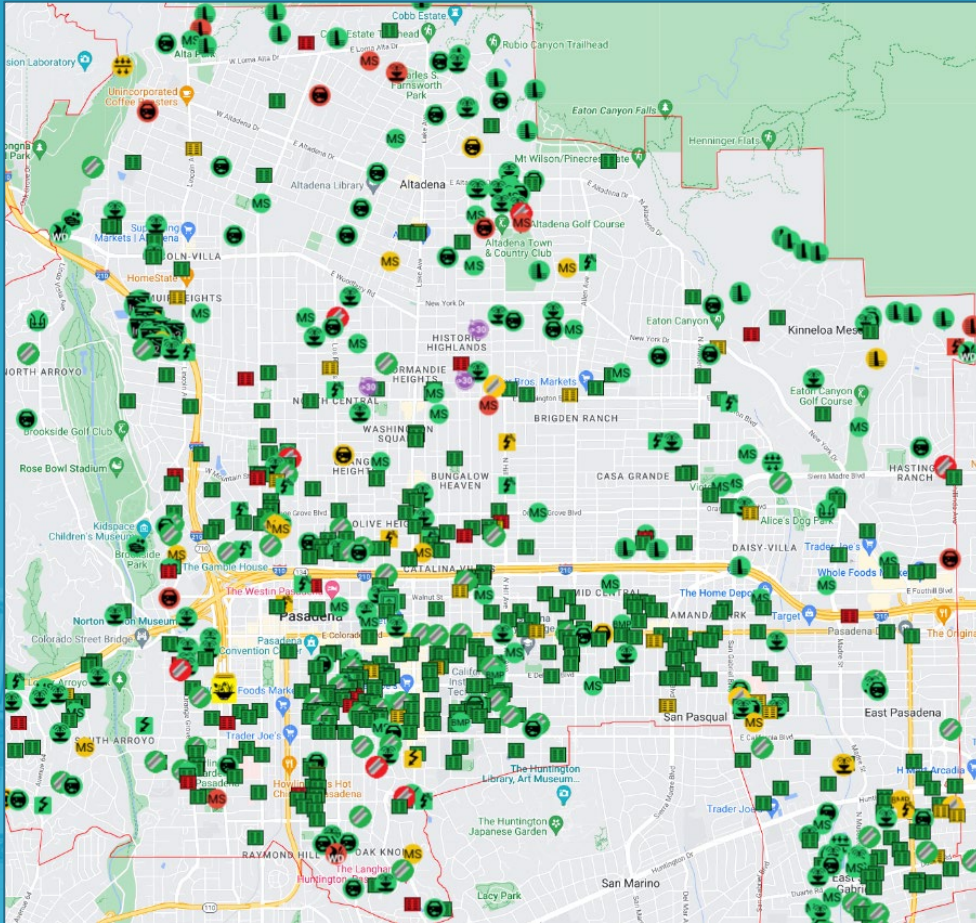


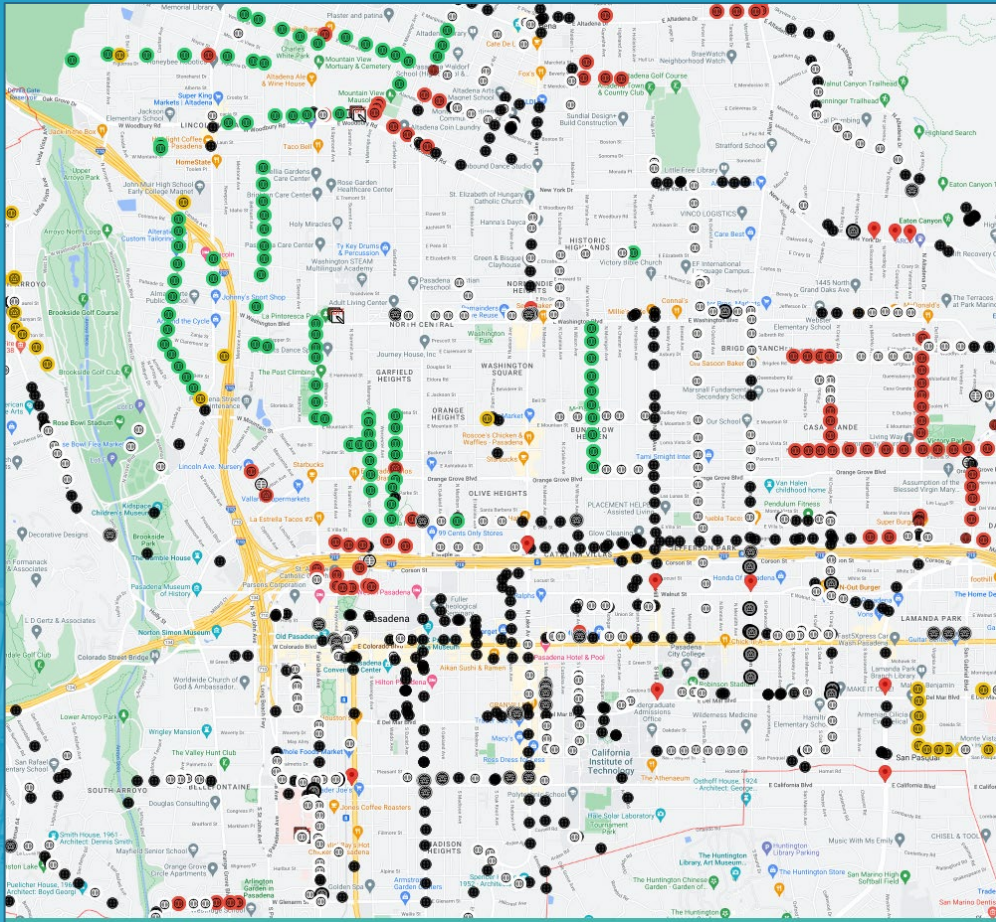
ACTIVITIES IN PASADENA



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- Monitor over 700 individual mosquito breeding sites
- 142 non-functional swimming pools
- Over 400 gutters, drains, and sump pumps



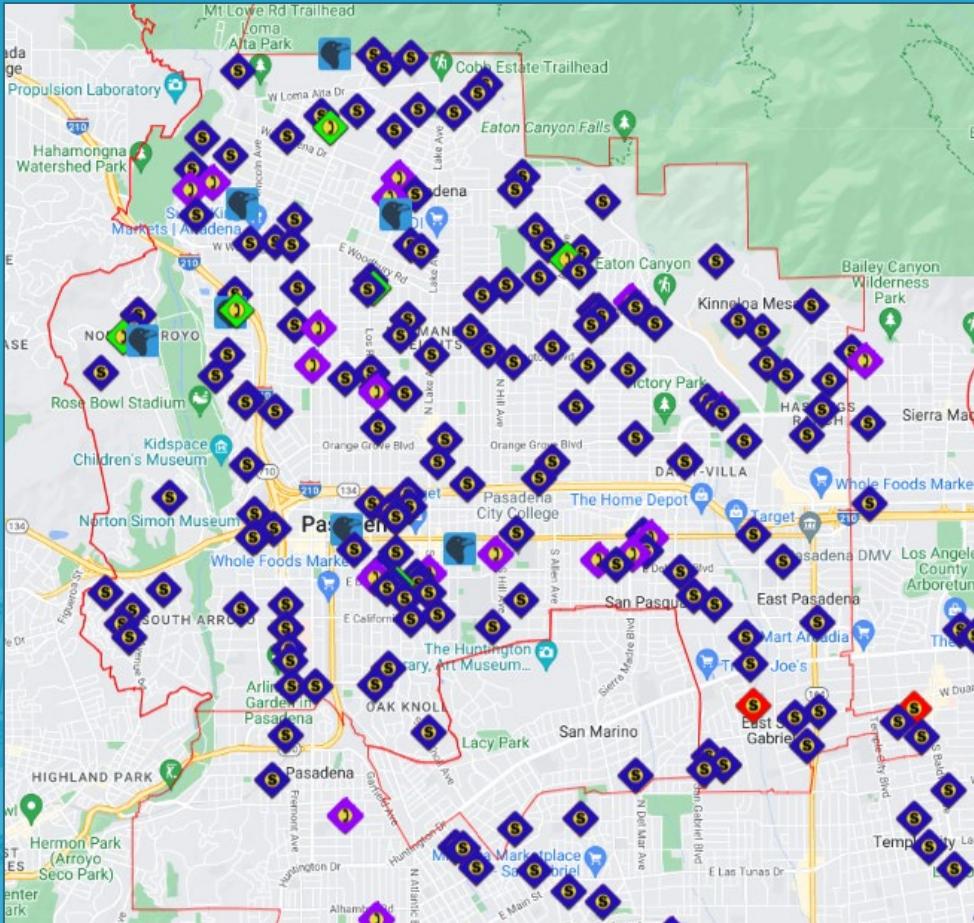


ACTIVITIES IN PASADENA

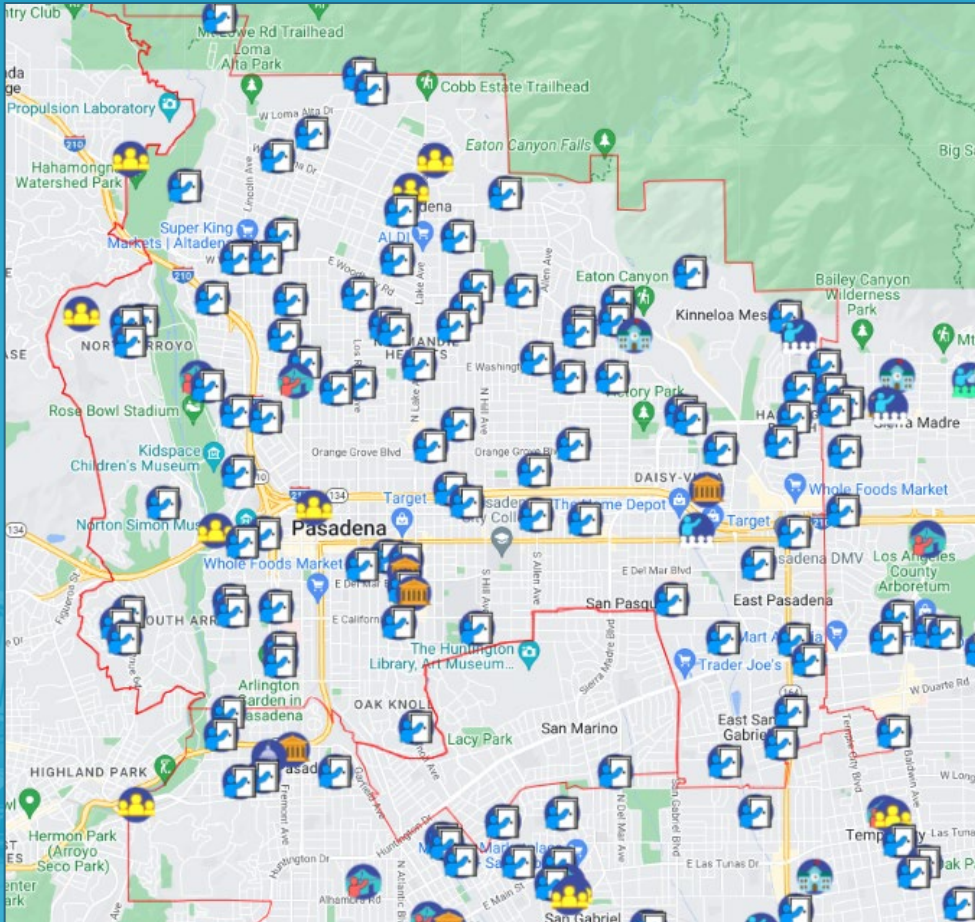
- Monitor over 900 underground storm drain lids
- Over 6 miles of open flood channels
- Devils Gate Reservoir
- Arroyo Seco

ACTIVITIES IN PASADENA

- 2023: Responded to 147 Service Requests
- 70 Property Consultations



ACTIVITIES IN PASADENA

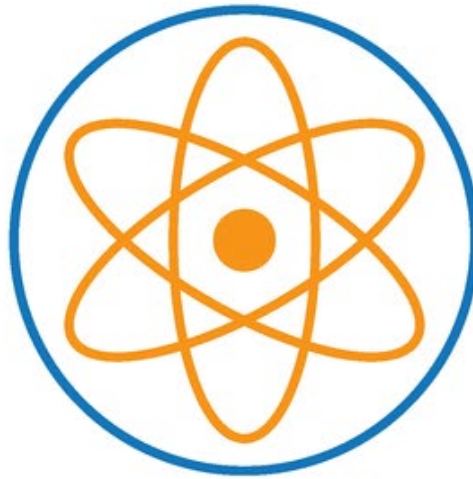


- 2023: 57 unique Education and Outreach activities
- Over 1,000 educational door hangers delivered to properties with elevated invasive Aedes activity

Sterile Insect Technology (SIT)



Wolbachia



Irradiation



Self-limiting
mosquitoes

REPEL MOSQUITO BITES SAFELY AND EFFECTIVELY

Well-researched CDC-recommended and EPA-registered **active ingredients**



Oil of lemon eucalyptus



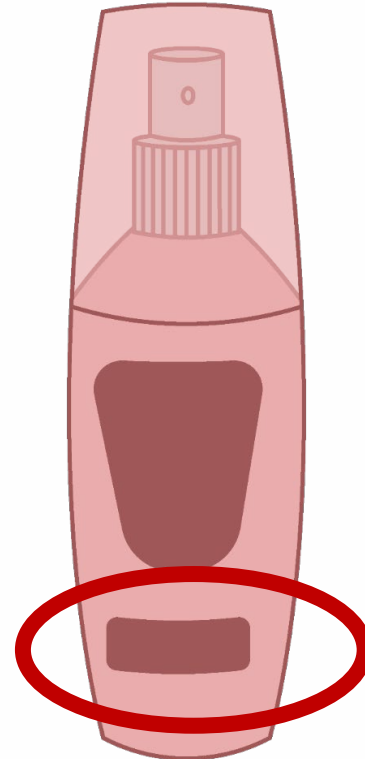
DEET



Picaridin



IR3535



TIP, TOSS, AND PROTECT



- **Tip** stagnant water from containers weekly
- **Toss** unused containers
- **Protect** with insect repellent
 - DEET
 - Oil of Lemon Eucalyptus (or PMD)
 - Picaridin
 - IR3535
- **Create a Bite Back Group** in your neighborhood at www.BiteBackChampion.org
- **Submit a Tip** to 626-814-9466 or www.SGVMosquito.org



THANK YOU

Jason Farned

District Manager

San Gabriel Valley Mosquito and
Vector Control District

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626-814-9466

   @SGVmosquito

