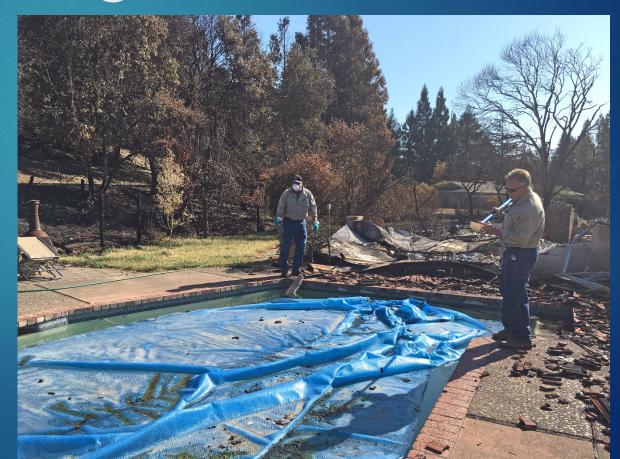


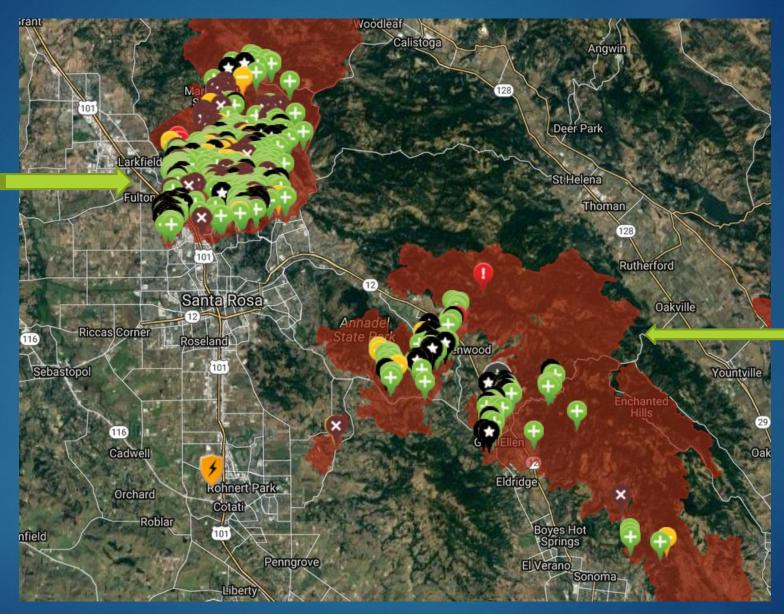
Mosquito District Operations in the 2017 Fire-Damaged Zones



Sources of Mosquito Production

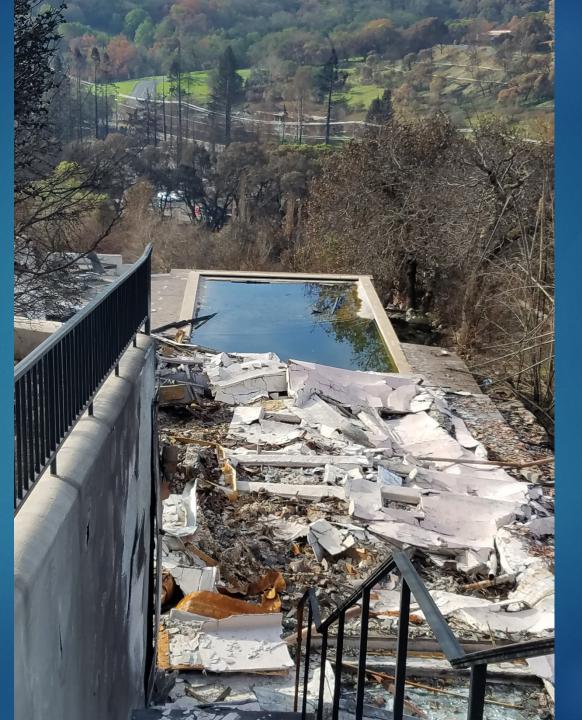
Unmaintained "green" swimming pools Spas & hot tubs Onsite Wastewater Disposal (Septic Tank Systems) Tarps holding water Foundation voids Ornamental pools, ponds and water features 962 total mosquito sources treated





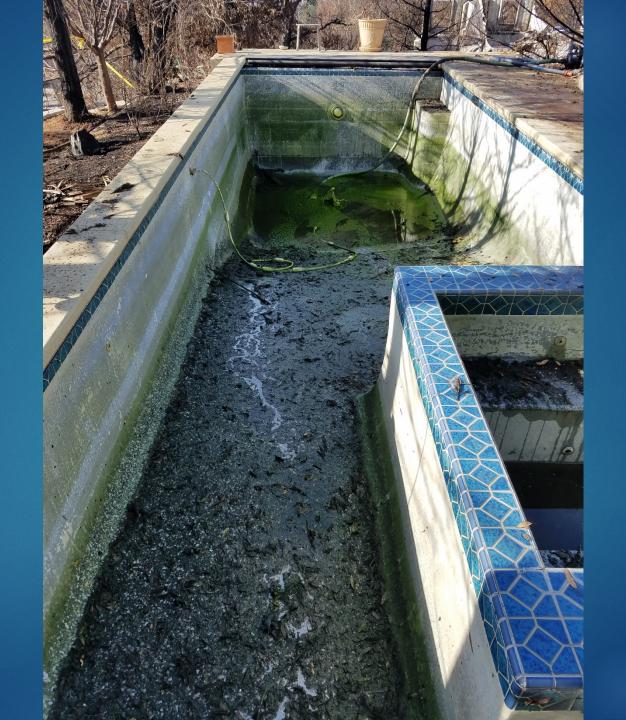
Red area shows fire footprint

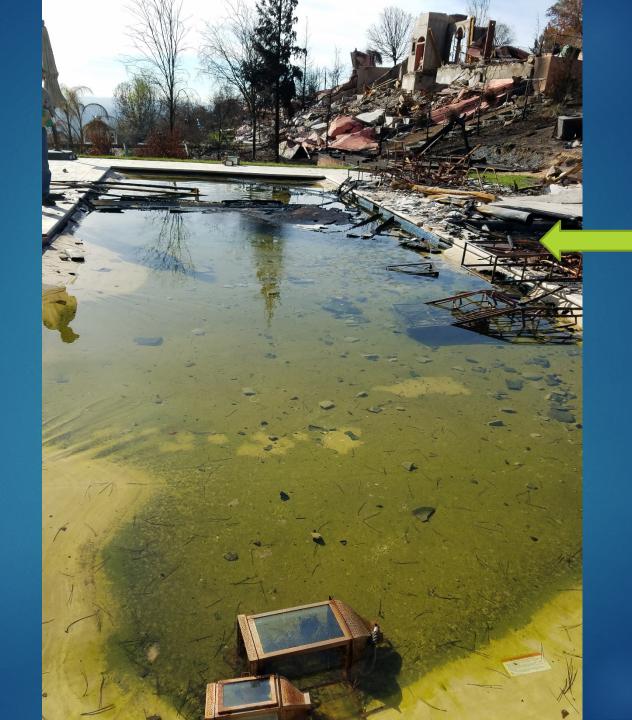
Fountaingrove Area



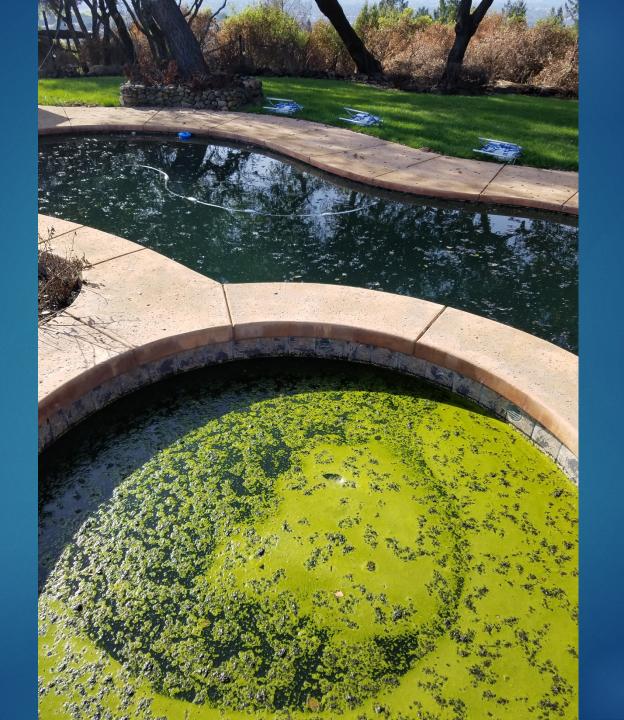
Mapping and Finding Properties

- District obtained a GIS layer from the County and imported it into MapVison database
- Onsite, most of the usual landmarks were missing making orientation difficult. Street numbers painted on driveway etc. in some cases.
- Staff worked in trios initially; pairs later on.
- Safety precautions were paramount. Proper PPE obtained and worn
- A few property owners were unfriendly at first. Ultimately we gained access to all areas needing surveillance and treatment and maintained good rapport with agencies and property owners.

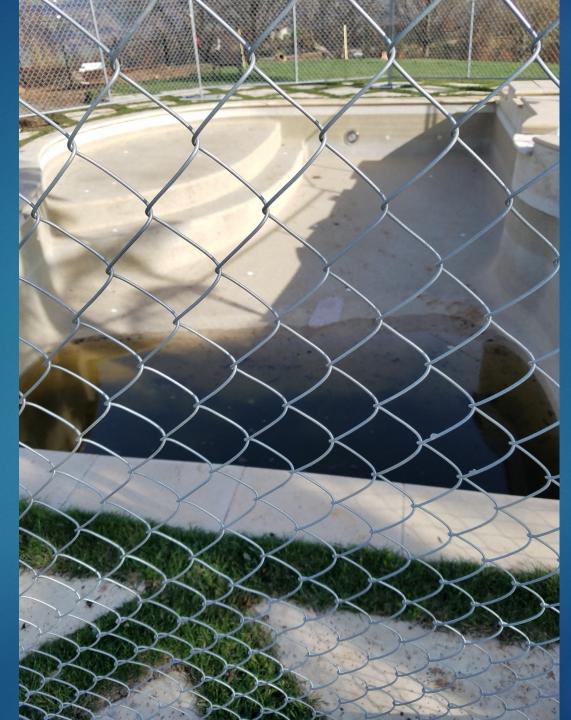




Hazardous conditions underfoot



Access challenges included cyclone fencing



12/01/2017 10:30

Septic System Tank and Lids Damaged by Fire

12/01/2017 10:31

Mass of Mosquitoes found in septic tank



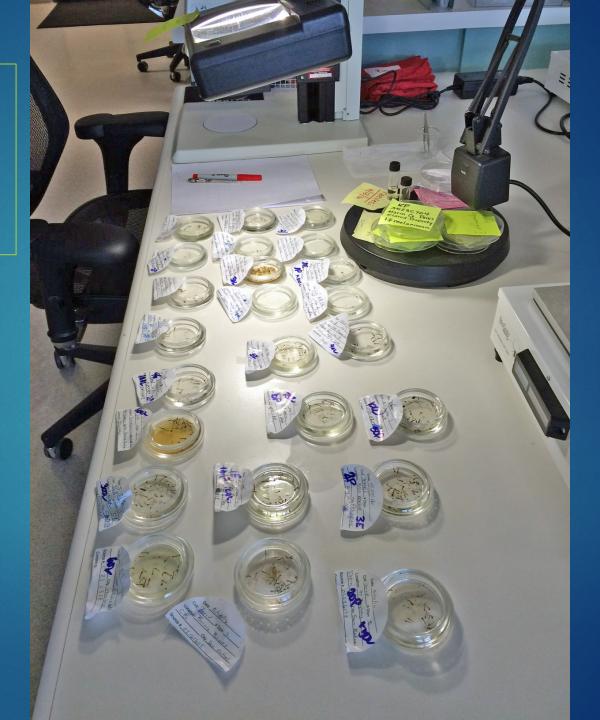
Health Concerns from Mosquitoes

Several of the species we find in mosquito traps, pools etc. are efficient vectors of West Nile virus
Discomfort and infections caused by bites

Safety of agency and contractor staffs



Samples of mosquito larvae awaiting identification in the Laboratory



Estimated Financial Impact to District

Potential loss of property tax revenue: Property Tax Reduction for 2017-18 was backfilled by state Future budgets? Over \$580,000 in labor and materials costs FEMA financial assistance denied due to special rules applicable to Mosquito Districts

Current Challenges

Demand for services is rising each year
Climate shifts are increasing mosquito & tick habitat & causing seasonal population shifts
Invasive Yellow Fever mosquitoes are now established in Merced, CA

These Aedes aegypti mosquitoes can transmit Zika, Dengue Fever & Chikungunya)

Thanks for your attention!

Any Questions?