

Wildfire Prevention and Protection Action Plan

DRAFTED MARCH 2019





Background

Current standards adopted- 2007

"Be Bold"- August 20th, 2018

Draft Plan – January 22nd

Today

- Staff is recommending
 - The plan be adopted via resolution as the framework for our wildfire mitigation, prevention, and response activities moving forward
 - A timeline to return with proposed vegetation standard ordinances
 - Ongoing review and input to the plan
- Staff is NOT recommending
 - Any ordinance/law adoption
 - Any commitment of new funds



Intent & Vision

- Public safety and risk reduction
- Coordination and collaboration
- Environmental protection and sustainability
 Equity
- Cost effective implementation
- Incentives before penalties

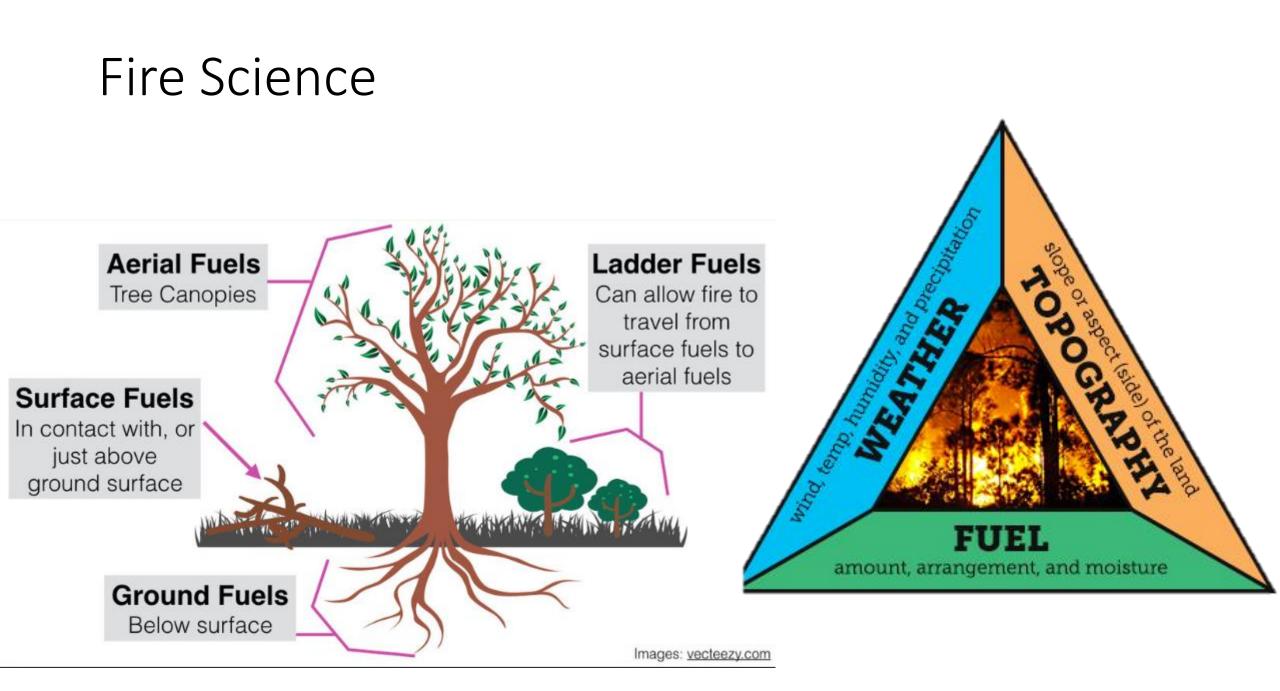
Wildfires & the Climate

- Impacts on fuel moisture, tree health, winds, temperatures, humidity and other factors impacting fire behavior
- Wildfires release large amounts of carbon dioxide.
 - 2018 wildfires = CA energy for 1 year
- Preventing wildfires will have minimal impact of carbon sequestration

Related Plans

- Climate Change Action Plan
 - Provide information regarding fire resistance of different tree species
 - Manage open space for forest health and reduction of fuel load
- Community Wildfire Protection Plan
- 2017 Lessons Learned





Home Ignition Zones



Public Input

- Community meeting at City Hall on February 11th
- Meetings: Marin County Fire Chiefs, Marin Association of Realtors, Marin County Fire Prevention Officers, San Rafael Fire Commission, San Rafael Neighborhoods Association, and Friends of China Camp.
- Presentations, including time for questions and feedback: Gerstle Park Neighborhood Association, Lincoln-San Rafael Hill Neighborhood Association, Rotary Club of San Rafael, San Pedro Road Coalition, Villa Real HOA, and Marinwood Community Services District.
- San Rafael CERT, attendees of 1 Hour 2 Get Ready, and the County Public Disaster Education and Preparedness Committee (PDEP).









RESIDENTS BUSINESSES VISITORS DEPARTMENTS NEWS EVENTS CONTACT ? 🚍 🔥 🔍

Please provide feedback on the draft plan using the form below.

Wildfire Prevention and Protection Action Plan Feedback

Action Item/Objective *

General Comment

Please select the item you are providing feedback for. These number match the original (January) draft plan. A cross walk of old and new numbers is available in the March version of the plan. The Feedback form will be updated following the March 18th City Council meeting.

I have a question requiring a response

Feedback

I would like to provide feedback on a second item

- Dedicated website and feedback form
- Short explanation videos
- Nextdoor Polls
- Social media
- Snapshot & Hotshot
- Direct emails

Submit

Updates to organization and structure

- Expanded plan introduction
- Reorganized into 3 sections
 - Vegetation Management
 - Wildfire Prevention and Protection
 - Notification and Evacuation
- Objectives renumbered (Crosswalk at end of plan)
- Outcomes section added to each objective
- Includes additional total cost estimates per objective

	\$\$\$ Costs to support residents meeting updated standards and assuring City property meets standards would require additional funding.
COSTS	@ Ordinance updates can be updated with existing staff
0515	@@@ Outreach, education, and enforcement would require additional staffing.
	Total cost to City: Initial staff time and equipment costs to implement are estimated between \$100,000-150,000 annually.
STAKEHOLDERS	Fire Department, Building Department, residents, businesses, landowners, Marin Builders Association.
TIMELINE	Ordinance changes would be internally drafted, reviewed and presented at public meetings in the future. Staff hopes to have an initial round of ordinance updates ready for public and City Council input within 90 days. Building Code updates would be incorporated into the reoccurring review cycle towards the end of 2019.
OUTCOMES	Reduces hazardous fuels and wildfire risk throughout the Immediate, Intermediate, and Extended zones. Reducing likelihood of ember storms to create new ignitions in or outside of the WUI boundaries. Community wide resilience.

Table 3 - New and Draft plan Objective number Cross Walk

#	Objective	Draft #
1	Eliminate highly flammable vegetation near structures and roadways throughout San Rafael	1
2	Apply vegetation management and defensible space standards citywide	2
3	Reduce ember ignitions within immediate zones to prevent structure ignitions through enhanced standards and support	4
4	Expand goat grazing for vegetation maintenance	15
5	Establish additional fuel interruption zones	32
6	Improve public education regarding fire-safe landscaping and living with wildfire	11

Revisions

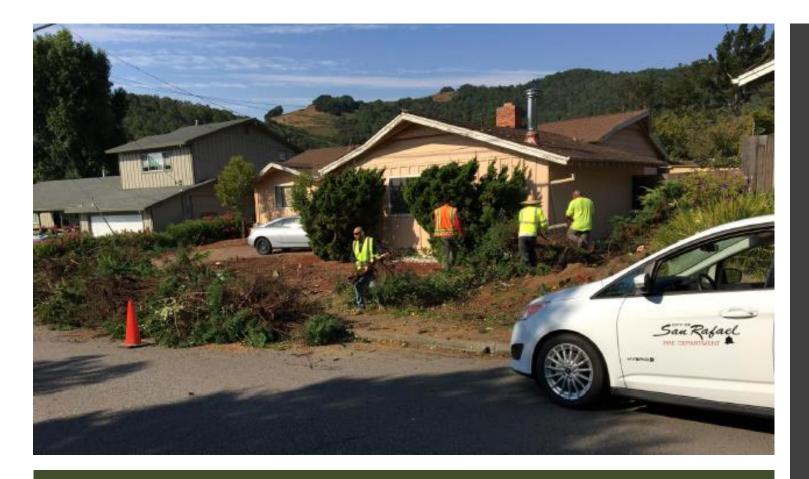
- Overall, objectives remain consistent
 - #38 was added to clarify intent to collaborate and partner
 - #27 was removed (VMPs for resale) and replaced with an item specifically addressing the need to harden homes
- Clarified commitment to collaboration with County, neighbors, and other landowning partners
- Clarification and addition of integration with existing plans and documents



Revisions

- Establishes Resilient Landscape Templates (RLTs) (maintains VMPs current role)
- Challenges reaching property owners not residing at unit (absentee and rental)
- Removes resale as a trigger or implementation, except flammable wood shake roofs replacement





Vegetation Management

- Reduce fuel available to start and spread fires
- Expand existing programs
- Communitywide effort
- Specific details of policies, procedures, and standards will be developed in the coming months with additional public input



 Eliminate highly flammable vegetation near structures and roadways throughout San Rafael (Draft # 1)

- Specifies near structures
- Adds roadways
- Specifies scientific names
- Addresses point of sale



2. Apply vegetation management and defensible space standards citywide (Draft # 2)

- Includes suggestion for Eucalyptus guidelines
- Need to review and update City hillside ordinance to make allowances for defensible space

3. Reduce ember ignitions within immediate zones to prevent structure ignitions through enhanced standards and support (Draft # 4)



- Clarifies immediate ignition zone is generally five feet
- Offers RLT as method for exemption
- Clarifies individual prescriptions, considering construction material, slope, and surrounding vegetation
- Emphasis on 'house out' efforts
- Includes possible adjustments at point of sale

4. Expand goat grazing for vegetation maintenance(Draft # 15)

- Emphasis on partnership to reduce costs
- Feedback was overwhelmingly positive



5. Establish additional fuel interruption zones (Draft # 32)

- Work to remove hazardous fuels in open space within 100 feet of structures
- Clarification that efforts would focus on shaded fuel breaks and removal of surface and ladder fuel





6. Improve public education regarding fire-safe landscaping and living with wildfire (Draft # 11)

- Expands outreach efforts to include FIRESafe MARIN "living with wildfire" campaign
- Better incorporates hardening home into outreach
- Incorporates outreach via point of sale locations
- Includes education on how to properly dispose of different debris

7. Establish more Firewise communities in San Rafael (Draft # 22)

- Includes FIRESafe MARIN and NFPA
- Discusses benefits of insurance incentives
- Feedback was overwhelmingly positive





8. Reduce hazardous fuels through an abatement process on privately owned unimproved lots and within 200 feet of a structure or 20 feet of roadway (Draft # 34) Expanded to include improved lots near structures or roads 9. Effectively coordinate the removal of vegetative debris from public and private property (Draft # 37)

- Includes outreach encouraging homeowners to fill green carts each week to reduce need for bulk pick-ups
- Initial conversations with Marin Sanitary Service are underway



10. Engage Community Emergency Response Team (CERT) members, Neighborhood Response Groups (NRGs) and other volunteers in fire prevention (Draft # 33)

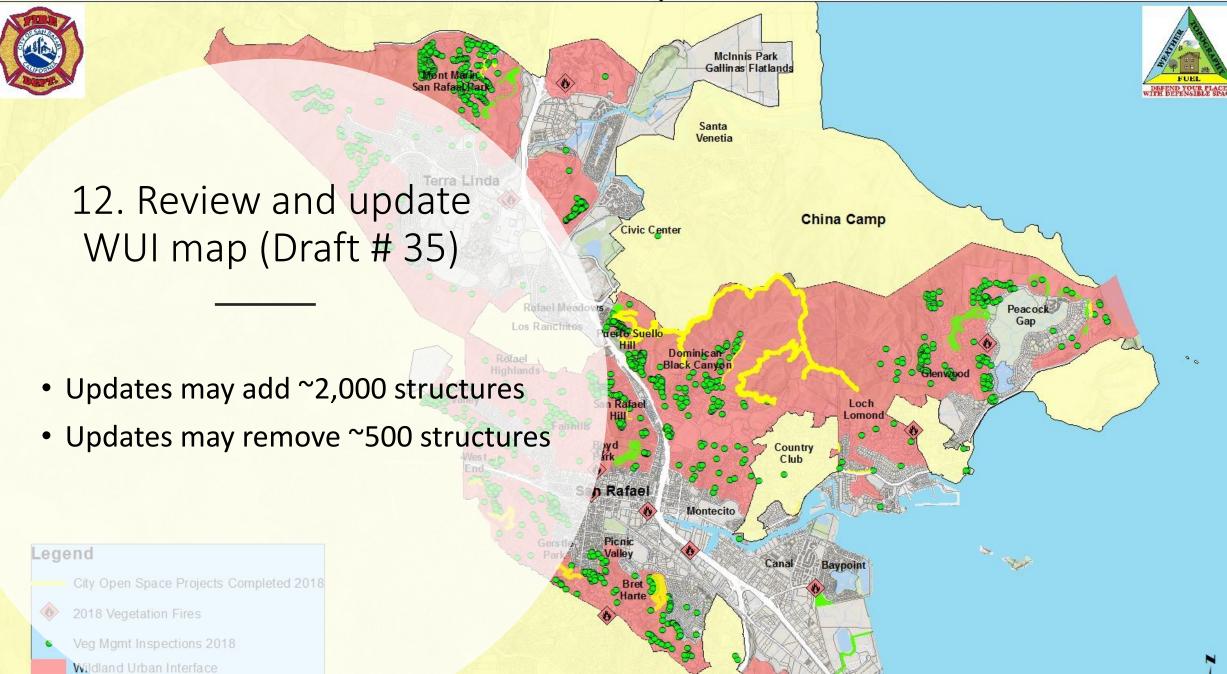
11. Reengage volunteer "Broom Pull Days" (Draft # 35)





- Incorporates broader volunteer groups
- #10 Includes fuel removal tasks

SRFD VEGETATION MANAGEMENT INSPECTIONS, PROJECTS & PARKLAND CLEARING FY18



13. Consider adoptionof Public ResourceCode 4290 and 4291(Draft # 3)

- Calls for consideration, rather than adoption
- Allows for staff review to determine if adoption is helpful or redundant
- Countywide coordination





14. Develop new efforts, solutions, and resources dedicated to wildfire prevention and protection (Draft #7)

- Broadens objective and expands language to clarify intent
- Specifies intent to reduce financial burden on individuals
- Includes partnerships (DST, NCCC, volunteers, etc.), funding avenues (CalFIRE grant, HMPG, existing budget, etc.) and revenue opportunities (tax, fees, donations, etc.)
- Fuel management is a continuous capital improvement project



15. Immediately seize ignition sources at encampments and remove encampments in open space as quickly as possible (Draft # 8)

- Emphasis on removing all open space encampments
- Specifies compliance of Marin v Boise regarding camping limitations
- Evaluate City ordinances for appropriate time, place, and manner camping restrictions
- Call for consideration of fire safe identified areas
- Includes challenges of abandoned item cleanups and encampment relocations



Wildfire Prevention and Protection

- Prevent ignitions
- Limit spread and impact
- Assure prompt and safe response
- Increase public education

16. Reduce likelihood of ignition in undeveloped land (Draft # 5)

- Includes intent to work with State Parks and other land owning agencies to remove ignition sources, such as smoking and grills, during periods of fire risk
- Includes fuel reduction in and around open space parking lots



17. Explore opportunities in Fire and Building Code updates to increase use of fire-resistant materials and application of CA Fire Code Chapter 7A (Draft # 24)

- Clarifies intent is not to require retrofit, but that any new materials (new construction or remodels) be fire-rated
- Maintains fire and building code updates will occur in coordination with agencies throughout the County in late 2019





18. Eliminate fire hazard associated with shake and wooden roofs (Draft # 6)

- Notes that staff believe fewer than 200 shake roofs remain in San Rafael
- Notes need to not negatively impact property transfers
- Timeline clarifies a need for allowance for home is escrow at time ordinance change becomes effective



19. Develop comprehensive San Rafael hazardous vegetation study and mitigation measures (Draft # 31)

- Clarifies that break out mapping by fire agency is called for in the 2017 Lessons Learned report
- Continues to include a specific consideration for Eucalyptus groves and maintenance planning

20. Complete an analysis of fire roads and strategic fuel breaks (Draft # 14)

- Clarifies these efforts would focus on forest thinning, and shaded fuel breaks, not deforestation
- Clarifies intent for partnerships and coordination
- Acknowledges the recreational value of fire roads

21. Increase the number of hardened homes in San Rafael

- Additional item
- Replaces Draft # 27, a VMP requirement for resale
- Focuses on outreach, education, and assistance to help homeowners
- Includes intent to align efforts with FIRESafe Marin and broader county efforts

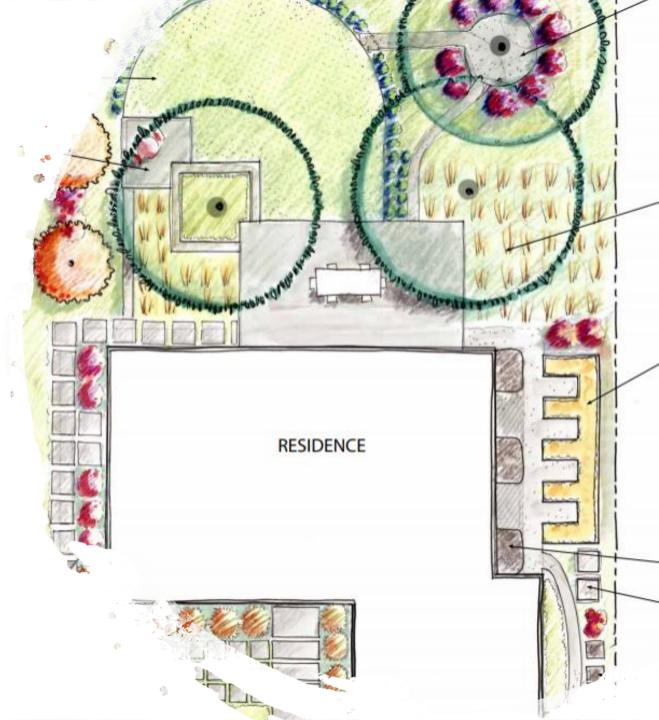
READY & WILDFIRE

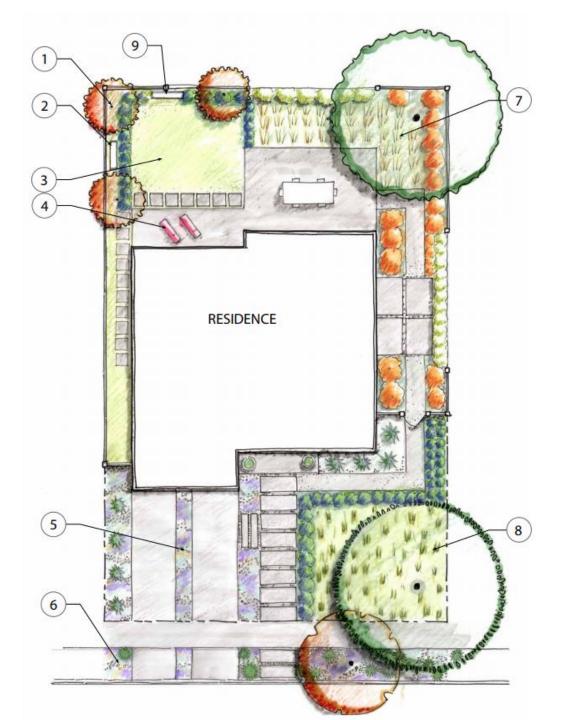
Harden Your Home



FLYING EMBERS CAN DESTROY HOMES UP TO A MILE FROM A WILDFIRE. HARDEN YOUR HOME BY USING FIRE RESISTANT BUILDING MATERIALS. 22. Improve development and implementation of Vegetation Management Plans (VMPs) and create new Resilient Landscape Templates (RLT)s (Draft #17).

- Establishes new tools and templates for homeowners to create fire-resistant, drought-tolerant, carbon-sequestering, and beautiful landscaping.
- Includes efforts to align our VMP with VMP updates across the county





PLANTING CONCEPT



LEGEND



23. Increase the number of completed Vegetation Management Plans (VMPs) and Resilient Landscape Templates (RLTs) (Draft # 26)

- Includes RLTs as resource for homeowners
- Looks to explore new opportunities to have homeowners complete RLTs or property owners complete VMPs
- Considers offering support and resources to those completing VMP or RLT



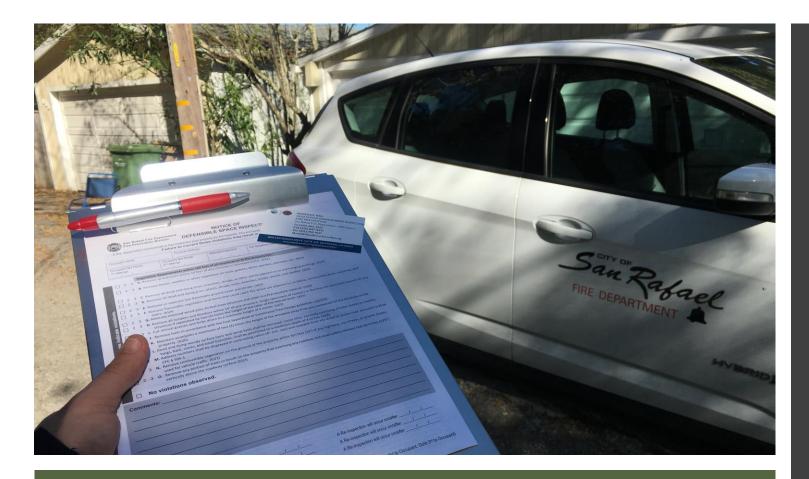
Entering City of San Rafael Open Space Open Sunrise to Sunset Camping, Fires, Littering, Dogs off Leash, Smoking, And Vehicles Prohibited Area Subject to Closure SRMC 19.10.060 24. Improve the public's fire risk awareness with sign improvements and installation (Draft # 36)

No significant changes

25. Reduce fire risk and keep visitors using short-term rentals safe (Draft # 29)

- Accounts for current City policies and review process regarding management of short-term rentals
- Includes attempts to work directly with short term rental companies like VRBO and AirBnB to share safety information
- Incorporates new RLT or similar vegetation template





26. Hire additional staff dedicated to vegetation management and disaster mitigation (Draft # 9)

- Encourages additional staff to be skilled in all areas of disaster mitigation
- Creates redundancies in emergency preparedness and response capabilities
- Expands request to include 3 seasonal employees to support inspections, outreach, project management, and homeowner support

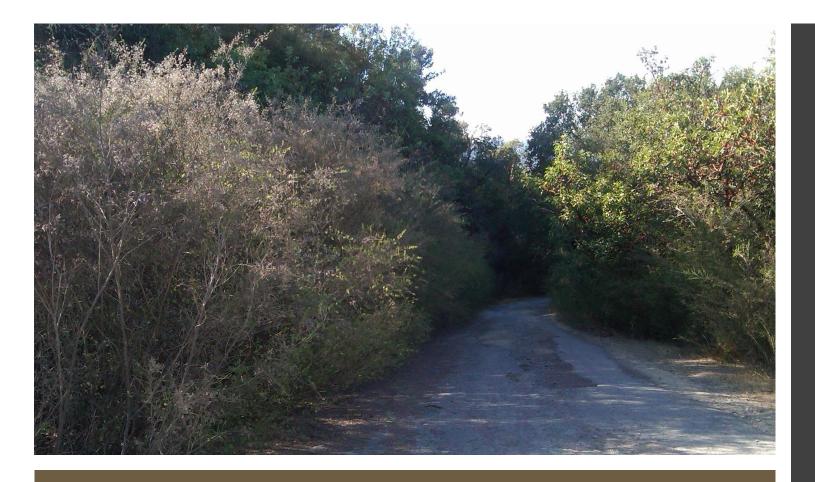


27. Increase Police Ranger staffing (Draft #10)

- Also includes support for evacuation planning
- Continues emphasis on need for more patrols in Open Space to prevent ignitions

Notifications and Evacuations

Firesafemarin.org



28. Reduce fuels along roadways (Draft # 19)

- Includes intent to maintain the "Tree City USA" status
- Focus on safe evacuation routes, fewer roadside ignitions, and safe access for responders

29. Establish a residential hillside "parking box" program (Draft # 25)

 Includes exploring considerations to support property owners trying to establish off-street parking
 Includes review of open

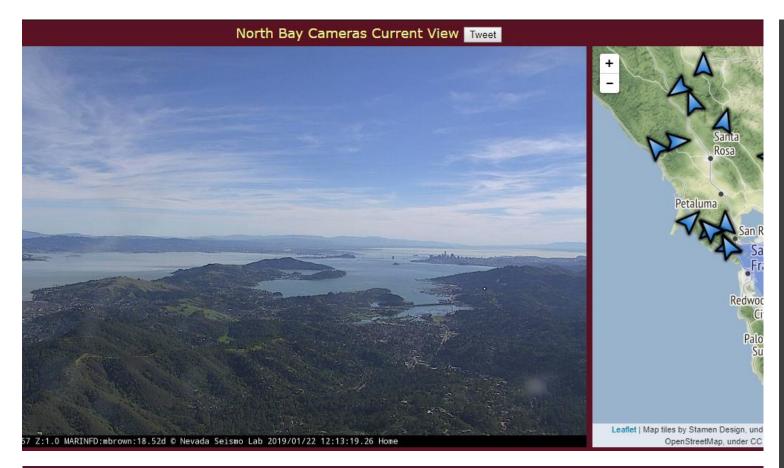
space parking areas

Varina

30. Improve public emergency alerting capabilities and policies (Draft # 13)

- Clarifies intent of Sirens
- Incorporates coordination with traditional media
- Incorporates peer-to-peer communication (NRGs)
- Acknowledges need to comply with Senate Bill 833 and Assembly Bill 1877





31. Increase capability for early fire warnings and detection (Draft # 12)

 Includes efforts to report confirmed fires to National Weather Service to support NOAA alerting if needed

• Efforts to install cameras are ongoing

32. Review and expand evacuation plans, incorporating areas of refuge, and support neighborhood evacuation drills. (Draft # 30)

- Includes support of neighborhood evacuation planning and drills
- Clarifies inclusion of planning for those with access and functional needs
- Incorporates areas of refuge into evacuation maps
- Considers direct coordination with technology services like Waze, Google Maps and others



33. Assure safe andresilient criticalinfrastructure (Draft # 20)

- Broadens focus from fuel removal to safe and resilient
- Includes roadways
- Works to assure redundancies are in place



34. Assure that appropriate staff can send and receive emergency alerts (Draft # 18)

35. Assure that City staff can communicate during an emergency (Draft # 21)

Minimal updatesEfforts are on going

36. Assure that residents can evacuate through garage doors if power is out (Draft # 16)

37. Prevent potential entrapments by requiring 2 gates in any fence in designated areas (Draft #28)

 Clarification of intent to support lowincome individuals and those with access and functional needs





38. Maintain and expand coordination of wildfire prevention and response planning with Marin County, other Marin jurisdictions, Marin County Fire, FIRESafe MARIN, and neighboring landowning partners.

- New item to clarify ongoing intent to coordinate and collaborate
- Build off of existing partnerships and programs





