



CITY OF CARMEL-BY-THE-SEA

Emergency Preparation and Response



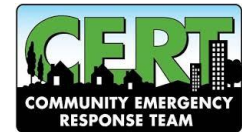
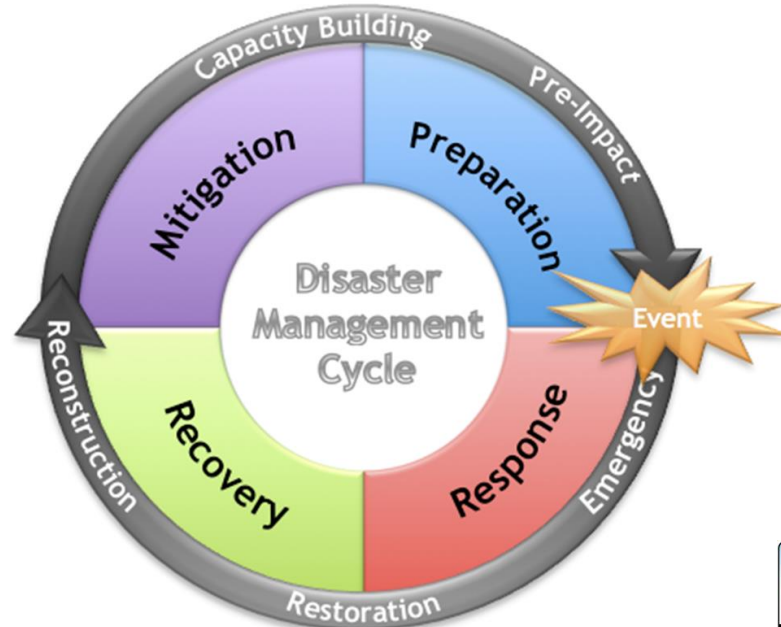
City Council Meeting
February 3rd 2025





Disaster Management Cycle

- Continuous Process
 - Preparation
 - Response
 - Recovery
 - Mitigation





Carmel Prepares

CARMEL PREPARES

Join us for a Wildfire Preparedness Symposium

Saturday, June 1, 2024
Sunset Cultural Center
Carpenter Hall
10:00 am - 12:00 pm

Learn how you can protect yourself and your home. Monterey Fire will review the new Community Wildfire Prevention Plan. Refreshments served and FREE Raffle!

Questions? Call (831)624-6403

PRESENTED BY:



SAVE THE DATE

CARMEL PREPARES

Join us for a Carmel-by-the-Sea Resilience Forum.

January 6, 2024
Sunset Cultural Center
10:00 am - 11:00 am
(Followed by time for Q&A!)

Learn to plan for & respond to winter storms & disasters and hear what the City is doing to prepare.

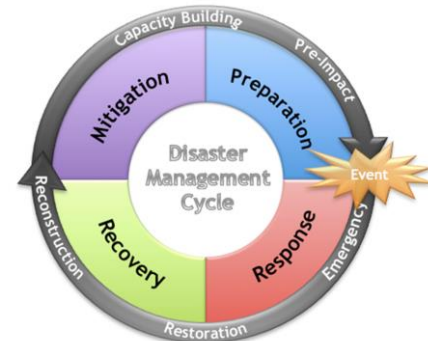
Questions? Email communityactivities@ci.carmel.ca.us or call (831) 620-2020

PRESENTED BY:



- Training
- Planning
- Equipment

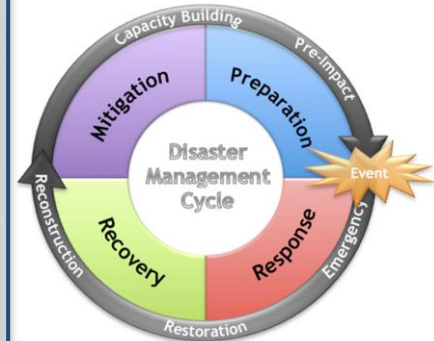
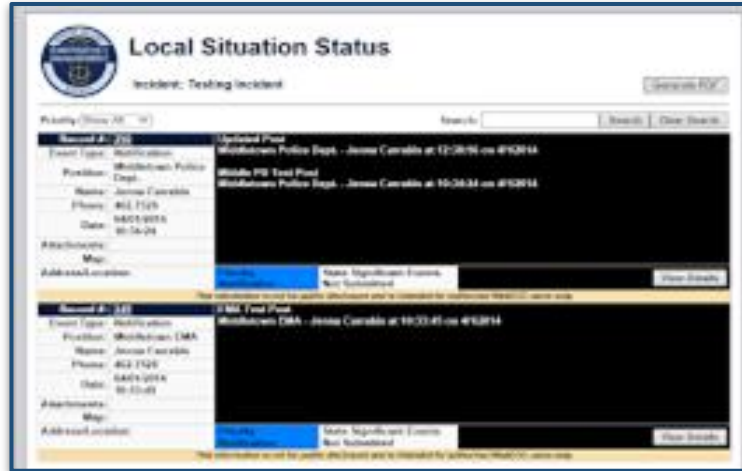
Local & Regional





EOC - Emergency Operations Center

- Part of a Web of EOCs - Local, County, State, Federal
- Incident Command Structure (ICS)
- National Incident Management System (NIMS)

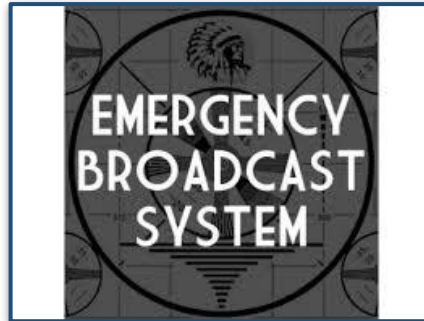




Communication

- Alerting Systems
 - Fire Station Siren
 - Emergency Broadcast System (EBS)
 - Wireless Emergency Alert (WEA)
 - Sirens/PA on vehicles
- City Website

Alert
MONTEREY COUNTY





A!ERT



Monterey County



Sign Up QR
Link

- Cell Phone
- Home Phone
- Text Message
- Email

• AlertMontereyCounty@co.monterey.ca.us

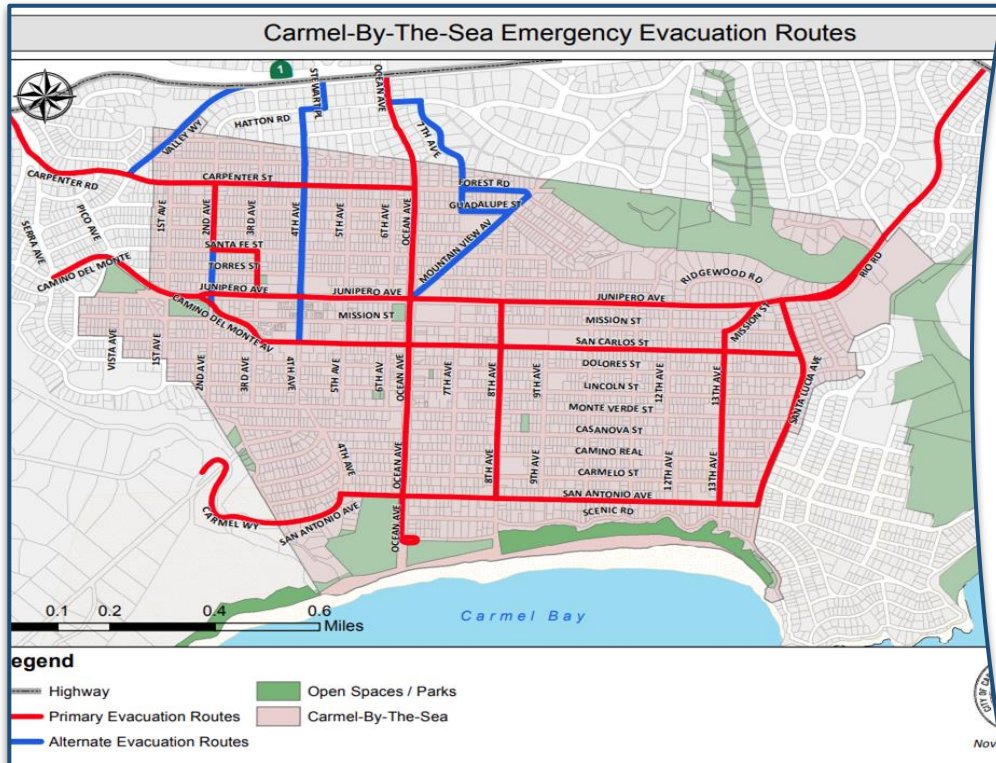


A!ERT
Monterey County

Portal Registration



Evacuation Routes



Information Provided

- Emergency Type
- Evacuation Routes
- Shelter Locations



Temporary Assistance Center (TAC)

- Located in the Park Branch Library
 - Gathering place for People in need of Information
 - Operated by City Staff, VIPS (Volunteers in Police Service)
 - Shelter Locations (American Red Cross)
 - Coffee, Light snacks
 - Power for Cell Phones or use of Landline Phones
- The TAC is a short term gathering place and does not qualify as a shelter.



Volunteer Groups



20- Volunteer Emergency Responders

Trained to assist Police/Fire in Multiple Emergencies

- Scene Security
- Rescues
- Emergency Aid
- Notifications



10-Volunteers

Trained to assist Police Department

- Community Liaison for Police Dept.
- Traffic Control
- Warming Shelter
- Notifications



How We Are Improving



- Social Media Platform (2025)



- Updated Emergency Response Plan (2026)



- New Data Base for Residents who will need assistance during an Emergency (2025)



National Public Safety Alliance for Individuals With Disabilities

- Critical Information for Emergencies (Resources, Evacuations)
- Provides vital/timely information to include contact details, descriptions, current photograph
- Open to any person with physical or mental impairments
- Creates a true partnership with community members in need
- Free Program
- Easy Sign-Up





Public Works - Forestry Division Overview

Enhancing Forest Resilience and Mitigating Fire Risk

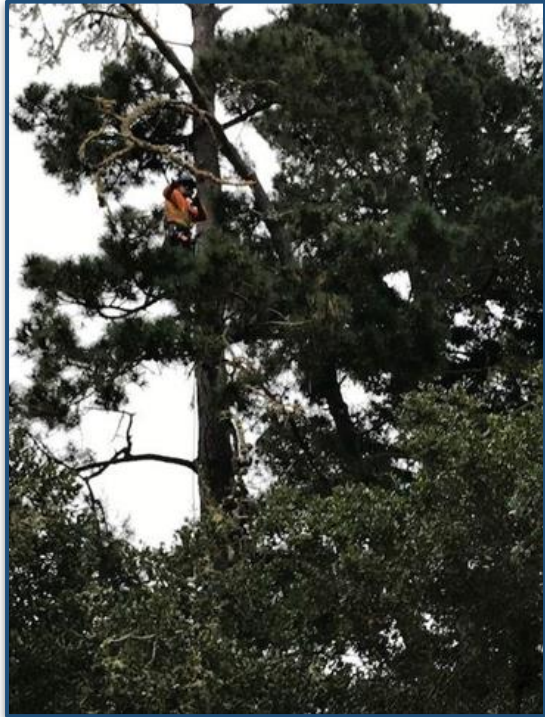
Forestry Division committed to maintaining a healthy, resilient forest ecosystem.

Our Team includes:

- Certified Master Arborist (City Forester)
- Certified Tree Worker/Tree Climber
- Two Tree Maintenance Workers

Dedicated staff and forestry equipment focused specifically on tree maintenance.

We also manage Task Orders with three tree contractors for large-scale projects.





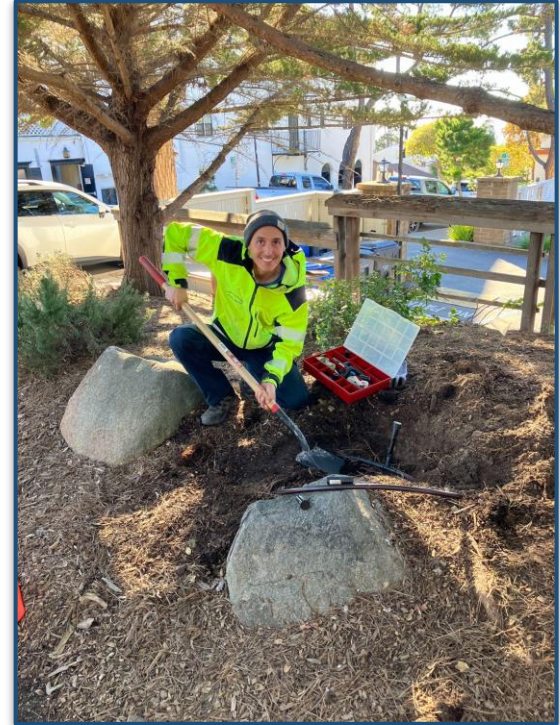
Forest Maintenance & Tree Care

Ongoing tasks:

- Removal of dead, diseased, and unsafe trees
- Pruning for health and safety
- Stump grinding/removal
- Weed, Grass, and brush abatement in parks and medians

3-Year Catch-up Plan:

- Addressing backlog of maintenance.
- Regular maintenance is essential for long-term forest health and fire resilience.
- Partnership with Volunteer Groups including the Friends of Mission Trail Nature Preserve





Fire Risk Mitigation



- Over the past 15 years, significant fire fuel removal has reduced wildfire risk.
- Healthy, native forests are more fire-resistant.
- On-going maintenance is critical in reducing future wildfire risk.
- Forestry Tree Work Budget allocation over the past 5 Years:
 - FY 2020/2021: \$115,000
 - FY 2021/2022: \$180,000
 - FY 2022/2023: \$521,500
 - FY 2023/2024: \$941,500
 - FY 2024/2025: \$1,426,200
- Budget increases reflect the City's growing commitment to forest health and wildfire mitigation efforts.





Ecological Forestry & Wildfire Mitigation Efforts

Collaborative efforts to protect rare coastal habitats and reduce fire risk.

Focus areas for fuels reduction:

- Mission Trail Nature Preserve
- Forest Hill Park
- Pescadero Canyon
- Forest Theater





Addressing Aging Forest & Tree Health



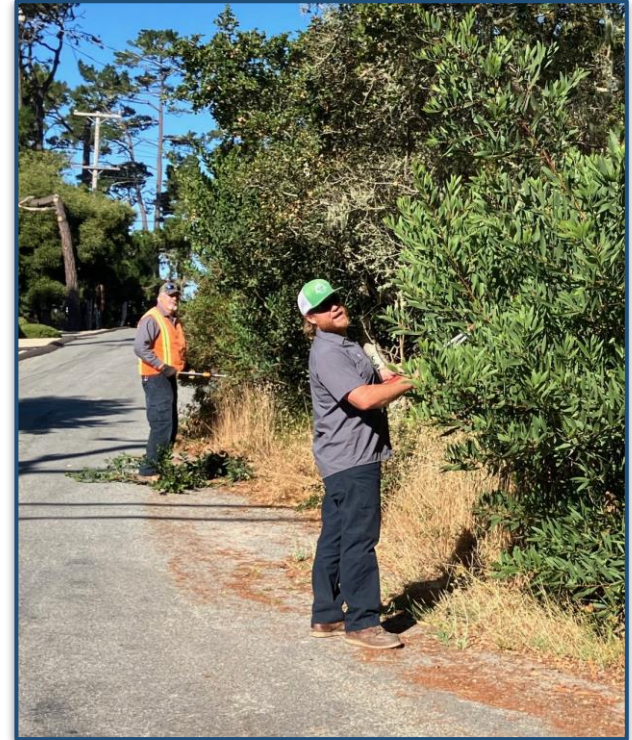
- Much of our Monterey Pine Forest is 80-100 years old, with trees maturing rapidly.
- Dry conditions have contributed to tree mortality.
- Efforts to clear downed trees, remove hazardous trees, and manage invasive species.
- When necessary, the City Forester notifies property owners of the need to remove specific dead trees on their property.
- Coordinate with Friends of Mission Trail Nature Preserve to clear dry/dead collected brush and branch piles.



Forest Health & Wildfire Mitigation Practices



- **Invasive Vegetation:** Hand pulling and grubbing to reduce fire fuel. Includes invasive trees.
- **Reforestation:** Planting trees in areas cleared of invasive species.
- **Fuel maintenance in parks and medians:** Shrubs and grass are removed and mowed periodically throughout year.





Urban Forest Management Plan

- Focus on forest health and reducing ladder fuels.
- Strategic planning for tree planting and watering.
- Continued replanting for trees lost to storms; 1:1 replacement ratio.
- Service trail clearance to allow fire trucks and emergency vehicles access.





Ongoing Efforts and Future Priorities



- The ongoing efforts of City staff, contractors, and volunteers are critical for effective fire risk mitigation.
- The Public Works Forestry Division plays a key role in implementing the Community Wildfire Protection Plan.
- Continued investment and community support are necessary to maintain and enhance the City's wildfire resilience.



Planning & Building - Building Code

- Structures in the High Fire Severity Zone (HFSZ) are required to be built to the standards of chapter 7A of the California Building Code (CBC). Fire Resistive Construction:
 - Roofing
 - Vents
 - Exterior Covering
 - Windows, Skylights, and Doors
 - Decks (Fire Retardant Treated Wood)
- Electrical undergrounding requirements
- Fire Sprinkler requirements





Planning & Building - Construction Types

TABLE 601

FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)

BUILDING ELEMENT	TYPE I		TYPE II		TYPE III		TYPE IV				TYPE V	
	A	B	A	B	A	B	A	B	C	HT	A	B
Primary structural frame ^f (see Section 202)	3 ^{a, b}	2 ^{a, b, c}	1 ^{b, c}	0 ^c	1 ^{b, c}	0	3 ^a	2 ^a	2 ^a	HT	1 ^{b, c}	0
Bearing walls												
Exterior ^{e, f}	3	2	1	0	2	2	3	2	2	2	1	0
Interior	3 ^a	2 ^a	1	0	1	0	3	2	2	1/HT ^g	1	0



Planning & Building - Additional Measures

For Existing Buildings

- Intumescent (fireproof) paint
- Fire Extinguishers
- Smoke Alarms - required - Check Every 6 Months
- Maintain defensible space - In coordination with Forestry



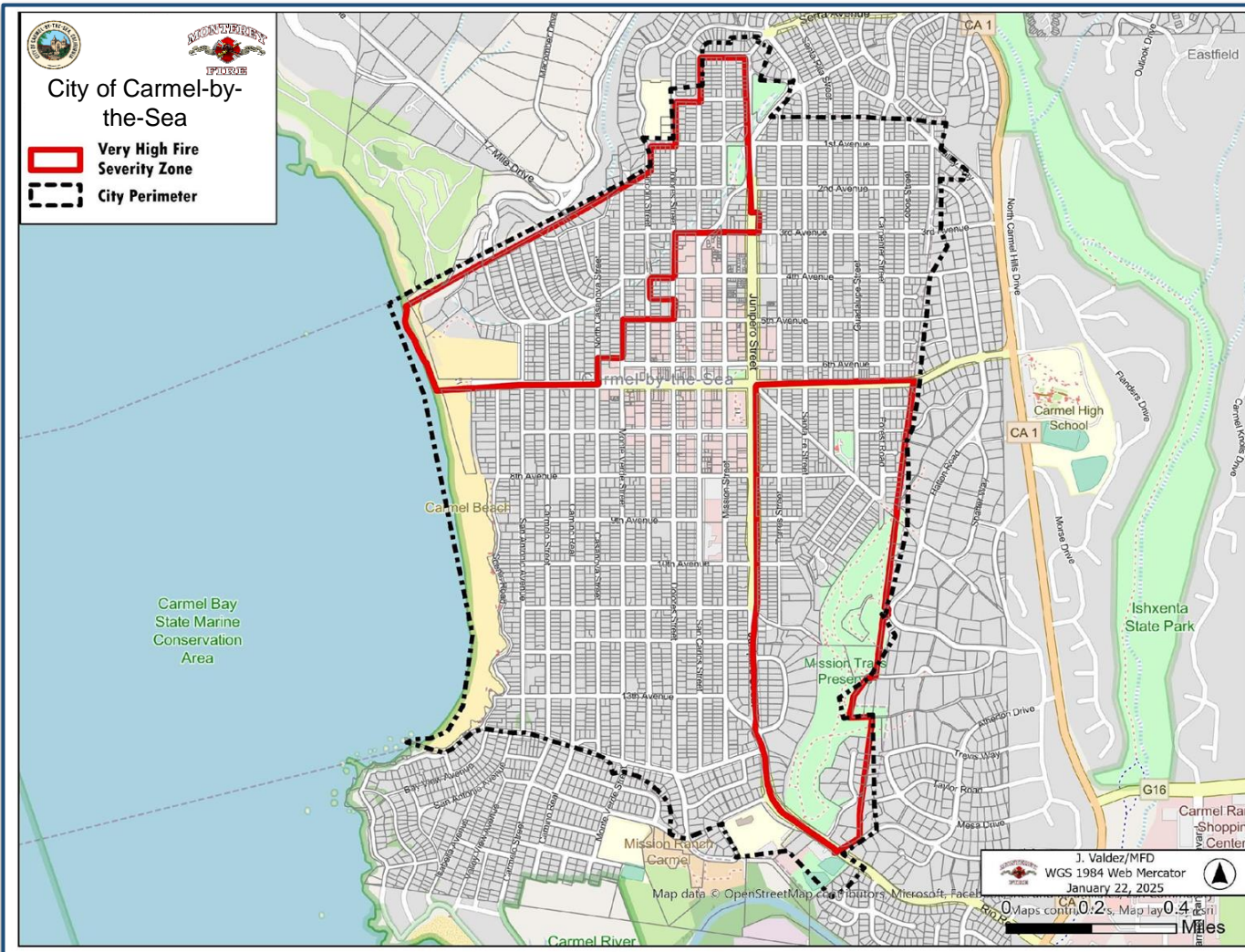
Wildfire Risk Mitigation Plans

- **Community Wildfire Protection Plan (CWPP)**
 - Core Planning Document / Prevention, Response and Mitigation of Wildland Fires
- **Fuels Mitigation Program**
 - Action Plan for our Very High Fire Severity Zones
 - Tracks Work in Progress, Work Completed, DSI's, and GIS Mapping
- **Defensible Space Inspections (DSI) in Very High Fire Severity Zones**
 - Hired 1 PT Fuels Mitigation Specialist & 3 PT Defensible Space Inspectors
 - Completed 22% of Homes in the Very High Fire Severity Zones
 - Surveyed Mission Trails Park / Pescadero Canyon / Open Spaces With City Staff
 - DSI Flyers will be Sent to all Homes in the Very High Fire Severity Zones
- **Community Collaboration**
 - Comply with Defensible Space Inspections
 - Take Self Initiative to Harden Home and Develop Defensible Space
- **Collaboration With Adjoining Judications**
 - Pebble Beach Community Services District / Cypress FPD / Cal Fire




City of Carmel-by-the-Sea

-  Very High Fire Severity Zone
-  City Perimeter



Carmel Bay
State Marine
Conservation
Area

J. Valdez/MFD
WGS 1984 Web Mercator
January 22, 2025



0.2 Miles
0.4 Miles

Map data © OpenStreetMap contributors, Microsoft, Facebook



Wildland Fire Response Plan / Deployment

- **Strong Response / Deployment Capability**
 - Hit it Fast, Hit it Hard
 - Excellent Response Times & Robust Deployment Model
- **Monterey Fire Initial Response**
 - Duty Chief, 3 Engines, Command Staff
- **Cal Fire Initial Response / Dual Threat Zone / SRA**
 - Additional Engines / Command Staff / Water Tender
 - Aircraft both Helicopter and Fixed Wing
 - Hand Crews (Activated as Needed)
 - Bulldozers, Water Tenders, Etc. (Activated as Needed)
- **Open Emergency Operations Center (EOC) (As Needed)**
- **In County Mutual Aid Plan (Activated As Needed)**
 - Additional Engines / Command Staff / Water Tenders
- **State OES Master Mutual Aid Plan (Activated As Needed)**





Fire Hydrant Update

Statement from California American Water Regarding Fire Preparedness

- California American Water is committed in its efforts towards enhancing wildfire preparedness and **helping to ensure the reliability of water service** during emergencies.
- California American Water has practices and plans in place for maintaining tank levels, modifying system maintenance, and **preparing backup power sources** in high-risk wildfire areas when notified about red flag fire warnings. Our operations teams **prioritize system reliability** through the strategic placement and use of backup power generation, energy storage systems, and engineering for resiliency.
- California American Water **maintains and inspects its hydrants** and prepares comprehensive risk and resiliency plans to identify and help mitigate potential threats to our water infrastructure, including fire risks. We primarily provide water service in urban and suburban areas in compliance with applicable design standards and regulations.



More Resources

Wildfire Ready Town Hall & Expo

- Feb 27th
- 5:00 - 8:30 P.M.
- Monterey Conference Center
- Vendor Booths
- Panel Discussions
- Multiple Agencies Represented

Thursday, February 27
5:00 - 8:30 p.m.

Featuring:
City of Monterey Fire, Police, Forestry, and Building Safety

PG&E
Cal Am Water
CAL FIRE
Fire Safe Council
Monterey-Salinas Transit
SPCA
County of Monterey
Emergency Management

Red Cross
and more!

The City of Monterey hosts a
Wildfire Ready Monterey
TOWN HALL @
the Monterey Conference Center
Serra Ballroom, One Portola Plaza

THURSDAY, FEBRUARY 27, 2025

5:00 P.M. TO 8:30 P.M.
COMMUNITY PARTNER VENDOR
BOOTHS, REFRESHMENTS, VALIDATED
PARKING AT DOWNTOWN WEST & EAST
GARAGES, 341 TYLER ST.

6:00 TO 7:30 P.M.
PANEL DISCUSSION WITH
WILDFIRE PREPAREDNESS EXPERTS

Monterey, Pacific Grove, and Carmel residents encouraged to attend this FREE event!


monterey.gov/fire
@cityofmonterey





CITY OF CARMEL-BY-THE-SEA

Emergency Preparation and Response

Conclusion