

An aerial photograph of a city during a disaster. A large, intense fire is burning in the center, with a thick plume of white and grey smoke rising into the sky. The surrounding area is densely packed with residential buildings and streets. The lighting suggests it might be late afternoon or early morning, with a warm glow over the scene.

Disaster

Debris

Removal

Best Management Practices

Discussion Topics



- Debris Management and Recovery Experiences
- Debris Best Management Practices
- Asbestos Management in Debris

Important Caveat

This is Relevant **ONLY** When Operating Under:

- A State Declared Emergency
- or
- A Federal Declared Emergency

WHY?

- **Floods:** 8 Major Floods in the Last 100 Years
- **Earthquakes:** 12 Major Earthquakes (>7.0) in the Last 100 Years
- **Fires:** 6 Major Urban Fires in the Last 20 Years

WHAT?

- Cal/EPA Formed a Working Group
 - State and Federal Agencies
 - Used Lessons Learned Over the Past 10 Years in Disaster Recovery Support
 - Formulated Best Management Practices
- 

Public Health Impacts



- Chemical and Physical Hazards
- Uncontrolled Contaminants/Hazards
- Environmental Contamination
- Debris Removal Activities WILL Increase These Risks*

*** Unless Performed With Care Planning and Extreme Coordination**

Challenges to Recovery

A large group of people, many wearing hard hats and safety vests, standing in a line outdoors, possibly at a construction site or a community meeting. The background shows some buildings and a fence.

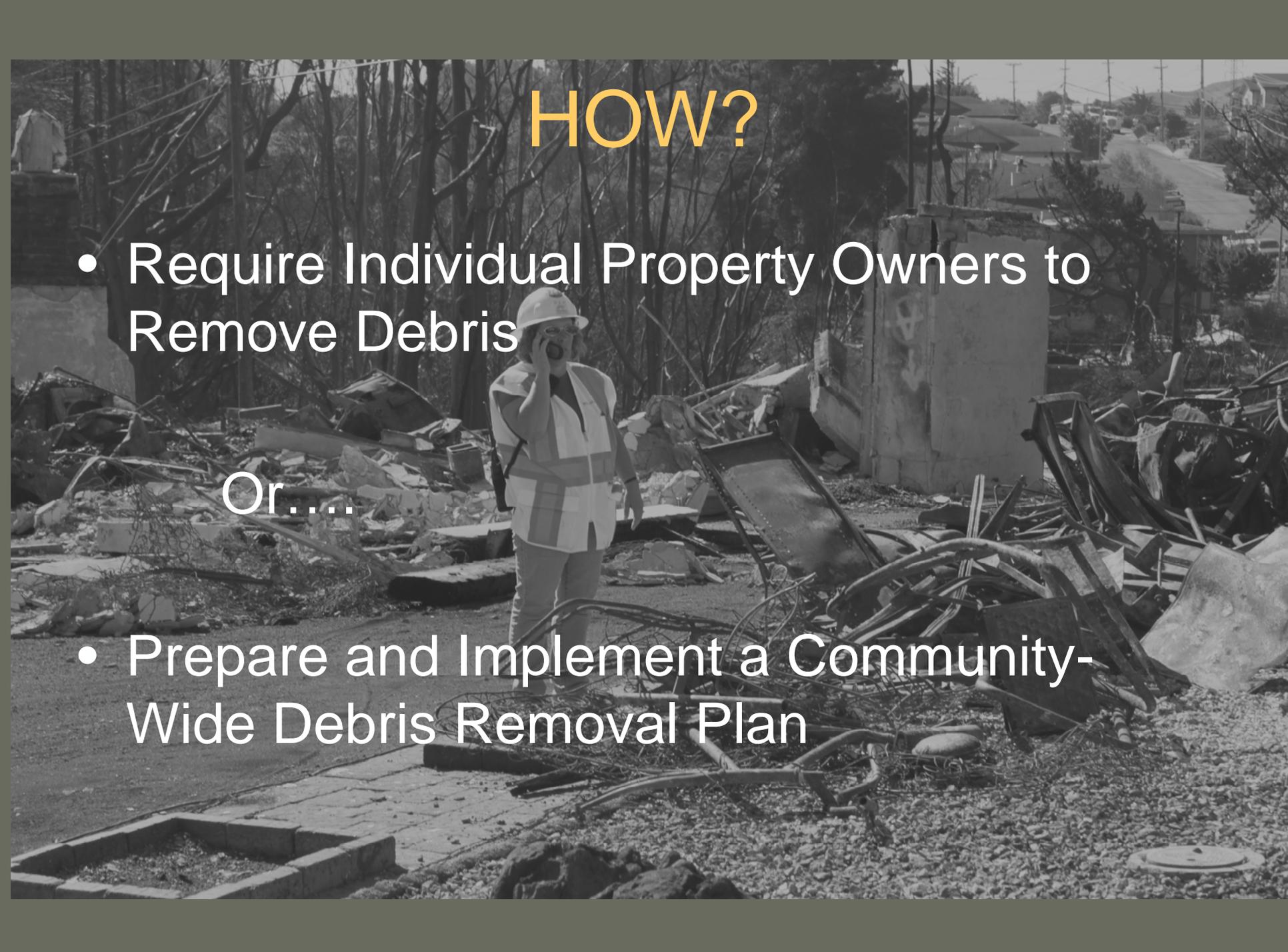
- Coordination of Multitudes of Local, State and Federal Agencies
- Shifting Gears from Regulatory Agency to a Resource Agency
- Development of a Recovery Plan to Address Impacts from Private Properties

HOW?

- Require Individual Property Owners to Remove Debris

Or....

- Prepare and Implement a Community-Wide Debris Removal Plan



Property Owner Removal

- Cheapest Approach For Government
- Increases Recovery Time for Community
- Increases Risk of Exposure to Hazards
- Difficult to Assure BMP's are followed
- Is Debris Disposed of Properly?

Coordinated Debris Removal



- Coordinated Effort
- Community Wide Management Plan
- Easily Monitored
- Lower Residential/Community Exposure
- Faster Recovery for Community

Steps of a Coordinated Cleanup

- Declaration of a Public Health Emergency

**PROCLAMATION OF A LOCAL HEALTH EMERGENCY
BY THE COUNTY HEALTH OFFICER**

WHEREAS, the California Health and Safety Code, Sections 101073, 101074, 101075, and 101076 confers upon Local Health Officers of the political subdivisions of this state emergency powers necessary to protect public health and safety;

WHEREAS, §101080 of the California Health and Safety Code, states that "the local health officer may declare a local health emergency in the jurisdiction or any area thereof" affected by hazardous waste which is may be a threat to the public health;

- Entry Permits from Each Property Owner

WHEREAS, Health and Safety Code Sections 101080 and 101085 empower the local health officer to determine that a presence of hazardous waste may be a threat to the public health and may declare a health emergency in order to facilitate the coordination and clean up of such hazardous material.

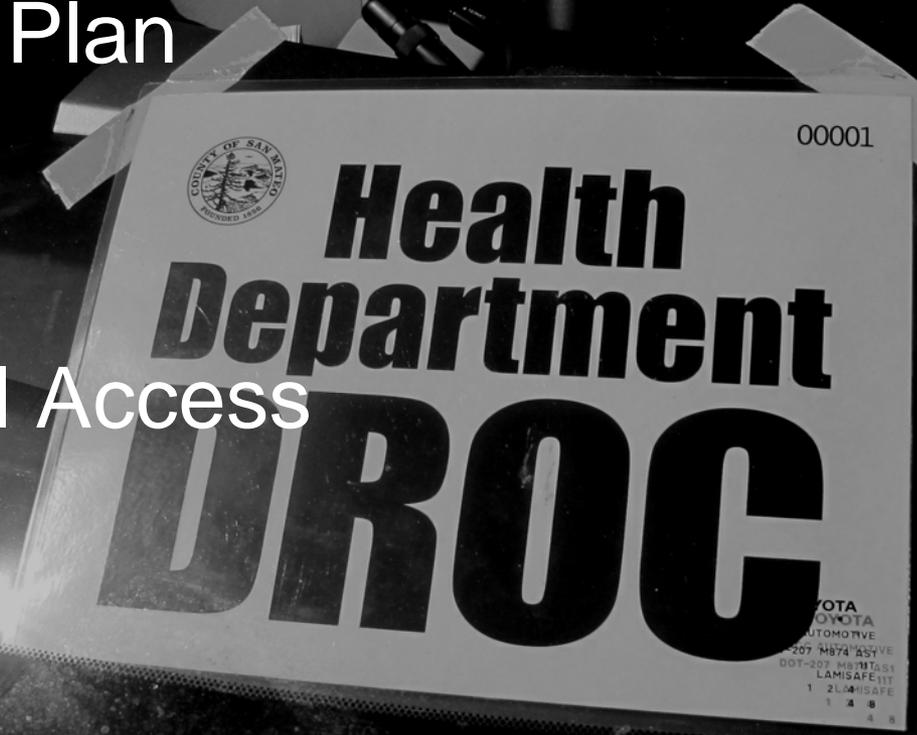
WHEREAS, the order of the local health officer is valid for seven days and must be ratified by the Board of Supervisors within seven days and is subject to reaffirmation every 14 days thereafter until such local health emergency is terminated; and,

WHEREAS, the Health Officer of the County of San Mateo does hereby find:



Steps Continued

- Survey Area and Develop Community Debris Plan
- Control Access



Steps Continued

GLENVIEW FIRE INCIDENT

- HHW and Bulk Asbestos Removal

ADDRESS 1101 Fairmont

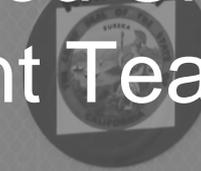
SITE DOCUMENTATION

- Licensed Contractor(s) Used Under Supervision of Government Team (ICS)

ASBESTOS SURVEY
REMOVAL COMPLETE

ASSESSMENT SAMPLING

EROSION CONTROL





Best Management Practices



Or How to Get There from Here

Hazardous Materials Assessment and Removal



Waste Classification



Air Monitoring



Got Asbestos?



Waste Handling



Waste Disposal/Recycling



Community Safety Plan



Storm Water Controls



Confirmation Sampling



Erosion Control



Helpful Web Resources

- <http://www.calepa.ca.gov/Disaster/>
- <http://www.calema.ca.gov>
- <http://www.calrecycle.ca.gov/>
- <http://www.arb.ca.gov/carpa/carpa.htm>



Discussion



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