Extent of Impact

• 3 counties
  • Butte
  • Ventura
  • Los Angeles

• > 150,000 acres consumed

• > 17,000 property parcels impacted

• 89 fatalities
Types of HHW

- Car batteries
- Light filaments
- Solar panels
- Ammunition
- Paint cans
- Tank valves
- Propane tanks
- Pool chemicals
- Disinfectants
Bulk Asbestos

- Characteristics
  - Heat resistant
  - Generally doesn’t break down
  - Occurs naturally and in manufactured goods

- Carcinogenic; affects lungs

- Structures built prior to 1980 often contain asbestos containing materials that can become friable and mobile in the environment.
US EPA Mission Assignments

• Initial assessment *

• Household hazardous waste (HHW) removal*

• Radiological Monitoring and Assessment Team at Santa Susana Field Lab, Ventura County, CA

* Phase I of cleanup. (Phase II of cleanup is debris removal and conducted by FEMA and California.)
HHW Removal

HHW Removal

Car Batteries and Light Filaments
HHW Removal
Cylinders and Tanks
HHW Removal

Asbestos?!?
HHW Removal

High Hazards Team

- Ammo > 50 caliber
- Explosives
- Tanks > 100 gallons
- Radioactive material
- Leaking transformers
- Mercury
This property's Household Hazardous Waste removal has been designated COMPLETE.

Ash & other materials remain a health hazard.

Please review health advisories before entering burned areas.

For questions regarding the cleanup, contact the Right-of-Entry Center at 530-552-3155.

Signs mark completed parcels.
Quality control team reviews completed parcels to ensure all HHW removed.
Adapting to Changing Conditions

Tree Hazards
Adapting to Changing Conditions

Weather

...tornados, debris flows, storms, high winds, and flash floods...

and the government shutdown
Adapting to Changing Conditions

Access
US EPA Response: Incident Command System (ICS)

- Emergency Operations Center
- Incident Command Post
- Operations
  - Branches – North & South
  - Divisions
    - Task Forces
    - Strike Teams
# US EPA Response: Incident Command System (ICS)

1. **Incident Name:** 2018 California Wildfires-ESF-10  
2. **Operational Period:** From: 01/18/2019 0700 To: 01/19/2019 0700

### DAILY MEETING/CONFERENCE CALL SCHEDULE

#### ICS 230 - EPA (Rev 02/10)

<table>
<thead>
<tr>
<th>Date/Time</th>
<th>Meeting Name</th>
<th>Purpose</th>
<th>Attendees</th>
<th>Location</th>
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<tbody>
<tr>
<td><strong>0700</strong> (Mon/Thurs)</td>
<td>OPS Briefing/ Staging Area Safety Mtg</td>
<td>Discuss Safety Concerns with Task Forces</td>
<td>SO, Ops</td>
<td>Staging Area 2850 Fair St</td>
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<td><strong>1000</strong> (Daily)</td>
<td>C&amp;GS Meeting</td>
<td>IMT Coordination Meeting</td>
<td>Command and General Staff</td>
<td>ICP Conference Rom 800-320-4330 Code: 561078</td>
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<tr>
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<td>Tactics Meeting</td>
<td>Coordination Opportunity for Operations</td>
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<td>Planning Meeting</td>
<td>Present the operational plan for IC approval</td>
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### 3. Meeting Schedule (Commonly-held meetings are included):

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### 4. Special and Other Meetings:

None

### 5. Prepared by: (PSC) (Date/Time)

Name:  Signature:  

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**DAILY MEETING SCHEDULE**  
ICS 230 - EPA (Rev 02/10)
Operations Morning Meeting

- Work assignments
- Safety briefing
- Important announcements
HHW Collector Apps

- Access on iPad in field
- Documents site activity
- Standard operating procedures for consistency
- Relevant parcel information
- Uploaded to EPA’s data management system
- Ability to look up in real time parcel status to interested residents at public meetings
Community Outreach and Public Meetings
Camp Fire Response

Scroll down for more information

This map shows the zones in orange where EPA and DTSC crews are working today.

If on a mobile device, press the Explore button to navigate the map, and then the Stop Exploring button when you are ready to scroll to the next slide.
US EPA Story Map: Progress Metrics

- Jan. 23, 2019: 91% of properties completed
- Feb. 1, 2019: Phase I complete
US EPA Story Map: Address Lookup

Camp Fire - Address Lookup for Phase 1 Response

Legend

Property Status
Butte County
- Assessment Needed
- Phase 1 Complete
- Phase 1 Deferred

Camp Fire Response
Look up your address for Phase 1 household hazardous waste (HHW) removal

Camp Fire - Property Status for Phase 1 Response Efforts

Legend
- Phase 1 Complete
- Phase 1 Deferred
- Assessment Needed

EPA EMERGENCY RESPONSE
2018 California Wildfires Timeline

11/8
Camp, Hill and Woolsey Fires Began

11/9
President approved Major Disaster Declaration

11/11
EPA activated (FEMA ESF-10)

11/11
EPA activated (FEMA ESF-10)

11/25
All fires fully contained

11/26
Chico Incident Command Post established

11/30
EPA ends air sampling at Santa Susana

12/3
Field ops began assessment and removal of HHW (Phase I begins)

12/18
South Branch 50% complete

1/8
North Branch 50% complete

2/1
Phase I complete (Incident wide)
Lessoned Learned

• Efficient scale up
  • Ability to access resources quickly
  • “Go big early”
  • Established ICP close to impacted areas
  • Data systems invaluable

• Early investment with partners and public
  • Community engagement
  • Integrate with local government
  • Communicate directly with the affected population

• Resilience and dedication of EPA staff nationwide to serve deployments through holidays and furlough periods