



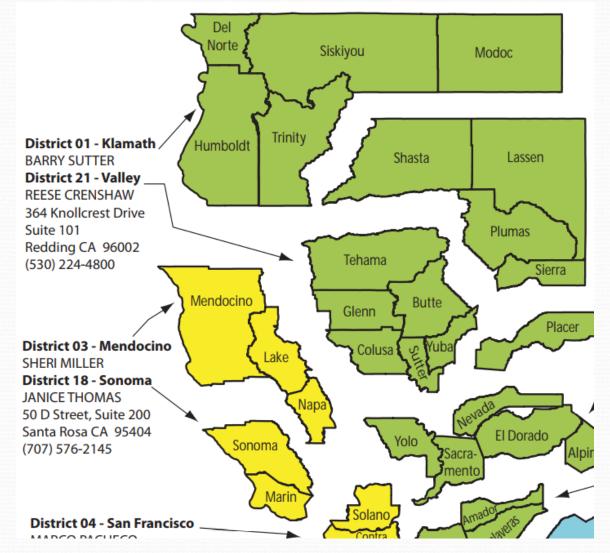
North Coast RWQCB Meeting Post Fire Response and Recovery Actions December 13, 2017

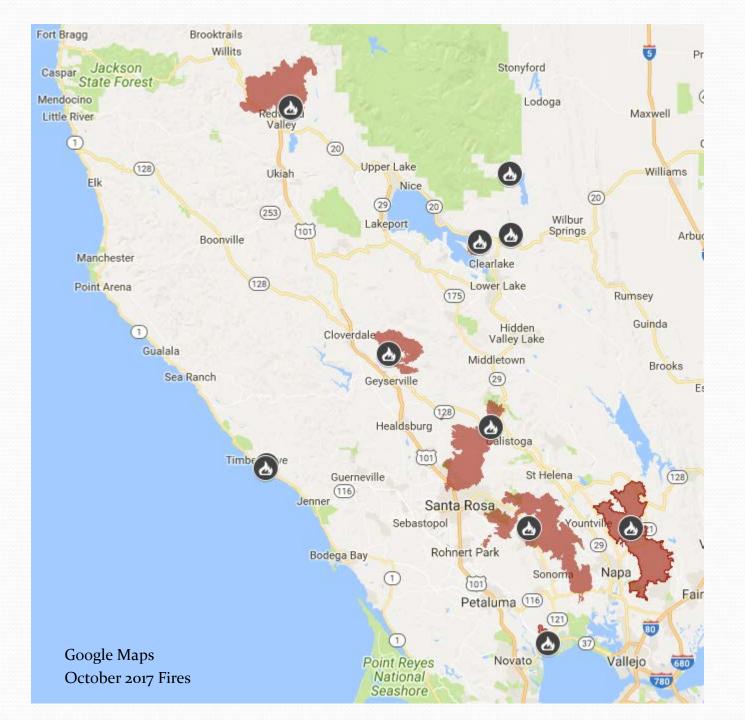
Janice Thomas, Sonoma District Engineer Sheri Miller, Mendocino District Engineer North Coastal Section, Division of Drinking Water State Water Resources Control Board

### **Division of Drinking Water's Role**

- Responsible for the enforcement of the federal and California Safe Drinking Water Acts and the regulatory oversight of public water systems to assure the delivery of safe drinking water to all Californians.
- California Health and Safety Code Section 116275: "Public Water System" means a system for the provision of water for human consumption ... that has 15 or more service connections or regularly serves at least 25 individuals daily at least 60 days out of the year.

#### **DDW Field Offices**





## Role of DDW In Fire Response

- Like Regional Boards, Division of Drinking Water (DDW) engages in direct, field-level implementation and oversight:
  - Assess fire impact on drinking water supplies and water system infrastructure
  - Assist in identifying needs and informing appropriate responders
  - Assist in bringing water systems back to normal as quickly as possible
  - Participate in SEMS as appropriate, via SOC, local Operational Areas, and Division Response Center
  - Protect public health by ensuring that drinking water is safe, or that consumers are notified

#### Immediate Impacts on DDW

- October 9, 2017: multiple fires start overnight in North Bay counties (and elsewhere). Hundreds of structures and many thousands of acres consumed by morning, thousands evacuated.
- DDW Santa Rosa staff responsible for all affected water systems, but many are evacuated and all are affected by fire conditions.
- DDW Santa Rosa office stays open with skeleton crew for initial response; others work from wherever they can.
- DDW mobilizes statewide to support response effort.

Pump Station Redwood Valley County Water District

## **DDW Response**

- Day 1: Tasked GIS-savvy staff with generating list of possibly impacted systems (initial list contained about 130)
- Immediately began contacting water systems
- Created tracking spreadsheet for internal use and external stakeholders (SOC, local EOCs, CalWARN) – in use by Day 2

A	В	С	D	E	F	G	н	1	L
Priority Flag	County	District #	System #	System Name	Service Connections	Population Served	Status Code	Public Notice	Comments
CLEAR	SONOMA	18	4900580	SONOMA MOUNTAIN COUNTY WATER	55	5 13(	D E		10/17 Sonoma Mountain County Water without any damage. Our hydrants were and the firefighters were able to keep th Crane Canyon Road. EARLIER UPDATE W being used to fight fire.
URGENT	SONOMA	18		BENNETT RIDGE MUTUAL WATER CON			D	DND	10/24: Staff conducted damage assessm may have contaminated the water. Syste monitoring to lift DND. 10/21: Placed sys reentry. 10/20: Spoke to Michael Wright there are any water system needs. 10/12 and he said that there are about 35 hom repopulated once the evacuation order i have special access to all parts of the wat has some fire damage to the control syst superficial damage to the control. There tanks for PG&E/operator crew to use. Th placed on a BWN once residents move b water. Rick Rogers - 10/9 2:25 pm - ~90% water system likely gone T. Judson - no w underground so may be ok. Only about 3
CLEAR	SONOMA	18	4900587	BRAND WATER COMPANY	34	4 9:	5 N	Lifted	10/23 - received voicemail from Gary Mid did lose power. Took 2 samples on 2 cons Lifted BWN. 10/19 11:07: Spoke to Shan water system does not have damage to i

\* CalWARN = California Water/Wastewater Agency Response Network

#### **DDW Response**

- Began feeding updates to SOC, participating in CalWARN daily phone meetings
- Day 4: Activated Division Response Center to organize and distribute response effort, relieve Santa Rosa staff
- Following drought response experience, used "virtual" DRC to allow for division-wide support
- Day 8: began attending Utilities Meetings at local ICC, to help coordinate repopulation (Before this, local response was focused primarily on the fire threat)
- Day 15: Santa Rosa office ready to resume normal operations, DRC deactivated

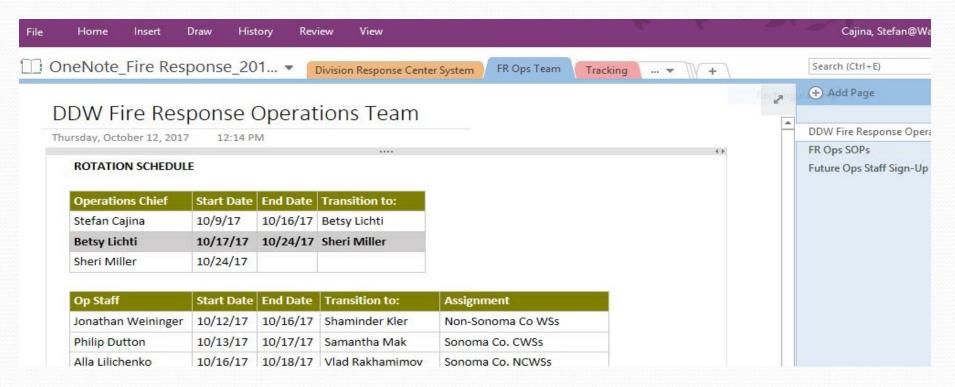
#### **Response Tools**

 Asked DIT to create new platforms to support response: generic Emergency Response email and phone hotline, cloud-based SharePoint and OneNote.

	¤!!☆ D0	SIZE	FROM	SUBJECT	RECEIVED	18
WB-DDW-emergency-response	0	1 MB	Victoria Kunda	4910023-Larkfield-October2017- Analytical Reports	Tue 10/17/2017 12:	
▲ Inbox		Janice, Please find attached final analytical report for the following sampling events in Larkfield water				
Auto Replies	Q. U	71 KB		RE: FIRE UPDATE REQUESTED - SWRCB Division of Dri	Tue 10/17/2017 11:	
Closed		Thank you Philip. Julie Cavaz Penngrove / Kenwood Water Company				
Non-emergency		37 KB Thanks		s RE: RWQCB 1 and 2 Staff Resources Disaster assistanc I Thursday that Darrin mentioned a funding program with		⊳
Drafts	D.	441 KB	Bartson Mark@Waterboards	FW: RWQCB 1 and 2 Staff Resources Disaster assistan.	Tue 10/17/2017 9:3	
Sent Items	0		Sheri – Matt St. John, Exec of		▶	
Deleted Items	1				Tue 10/17/2017 8:3	
Archive		Has anyone made contact with this customer? Philip Dutton, P.E. Associate Sanitary Engineer SWRCB				
Junk Email			Lori Wyatt Nathan, To clarify a couple po	RE: Utility Coordination oints,	Mon 10/16/2017 6:	⊳
Outbox	Q.	22 KB Yes, th	Thomas, Janice@Waterboards	s RE: City of Santa Rosa hat up to the folks who are updating the spreadsheet. Th	Mon 10/16/2017 5:	⊳

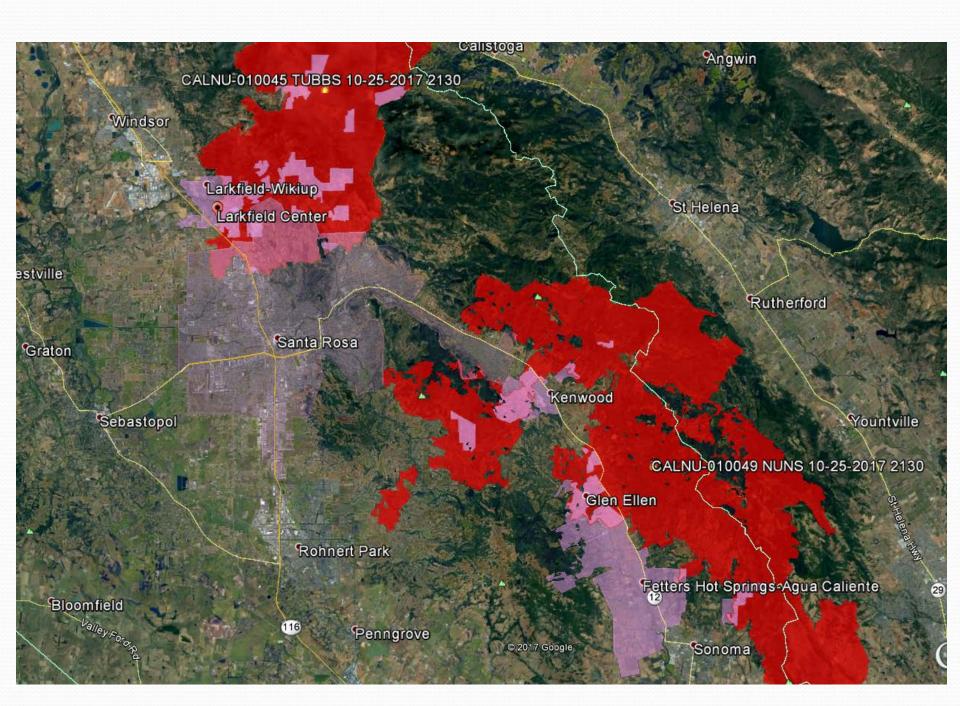
#### **Response Tools**

Documented "live" SOPs using OneNote on shared drive.



#### **Immediate Concerns**

- Destruction of water system facilities
- Access to critical WS infrastructure during evacuations
- Haz-mat removal at WS facilities
- Compromised water quality need for public notification as repopulation occurs
- "Clearing" water systems through inspection and sampling
- Staff safety in fire zone



#### Mark West Meadows MWC

### At a Glance

- Over 30 public water systems impacted by damage to facilities and/or loss of service connection revenues.
- The use of GIS expedited and narrowed down the communication to those impacted by the disaster.
- The recovery phase is not over!
- We made a lot of contacts trying to locate answers to questions.

#### Production Building Paradise Ridge Winery

#### Long-term Concerns

- Burned watershed and effects on water quality
  - Mitigate impacts to surface water treatment plant operations
- Financial recovery of water systems
  - Adequate records for FEMA claims
  - Need for additional treatment in near-mid term? (E.g., GAC contactors for TOC removal)
  - Availability and timeliness of financial assistance
  - Sustainability opportunities for consolidation?



# Lessons Learned – What Worked Well

- Information Technology made a giant difference, allowing live collaboration and workload distribution across many offices
- Early and continuous establishment of SOPs allowed new staff to get quickly up to speed
- Daily 10am Calwarn calls
- Getting a representative tasked in the Sonoma EOC

# Lessons Learned – What Can Be Improved

- Ensure staff have basic training in ICS, SEMS, FEMA
- Live answer on phone line preferable to recorded message
- Better and more accurate mapping tools
- Specific water sector representative placed in the County's EOC immediately following the disaster
- Local area communication before the disaster to include CalOES regional staff, County OES and EH before the disaster, and other Water Board regional offices.

#### **Contact Information**

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