# Public Safety Power Shutoff 2019 Review

**Board of Directors** 

December 10, 2019

# Agenda



- PSPS event overview
- Costs and impacts
- · Lessons learned
- Next steps

# 2019 District PSPS Events

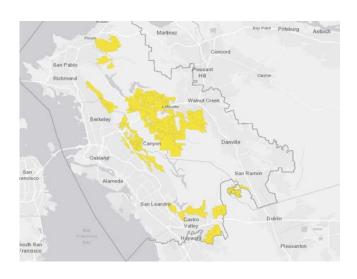


Event	Total	Water Treatment Plants	Distribution Pumping Plants	Distribution Reservoirs	Upcountry
Oct 9	136	2	47	37	1
Oct 26	216	4	58	54	27
Oct 29	23	Conc	eled	8	1
Nov 20	90	Yant	30	28	1

# Scope of PSPS Impact

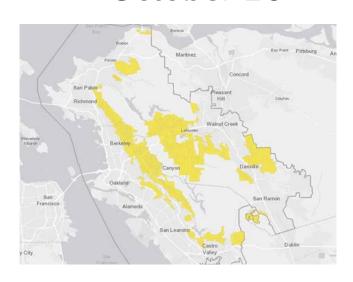


#### October 9



- Pressure Zones Affected
  - 43
- Customers Affected
  - ~97,000

#### October 26



- Pressure Zones Affected
  - 73
- Customers Affected
  - ~236,000

#### **PSPS Communications**



- New media
- Notifications
  - Elected officials
  - Social media
  - Emails
  - Nextdoor



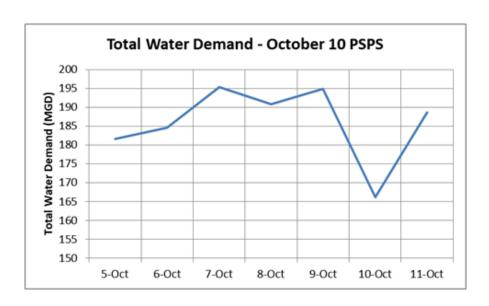
Should we worry about water service during the planned power outage? East Bay Mud says you should conserve and can look up your address to see possible impacts ebmud.com/customers/aler... #Ktvu #plannedpowershutoff

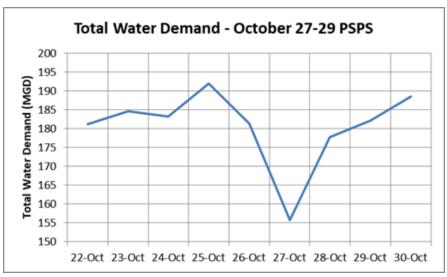


	October 9	October 26
Media advisories	2	1
Press releases	1	0
Emails	28,378	38,586
Nextdoor	58,893	158,782

# Water Consumption Customer Response







	Prior 5- Day Avg.	Oct 10	% Difference
PSPS Pressure Zones	22 MGD	15 MGD	32%
Non-PSPS Pressure Zones	185 MGD	169 MGD	9%

	Prior 5- Day Avg.	Oct 27	% Difference
PSPS Pressure Zones	41 MGD	25 MGD	40%
Non-PSPS Pressure Zones	158 MGD	149 MGD	6%

### **PSPS Costs and Labor Hours**



Item	Cost
Generator Rental	\$409,000
Labor: PSPS Preparation (e.g., RFP, exercises, field work)	\$111,000
Labor: October-November PSPS Response	\$683,000
Fuel	\$27,000
Other (e.g., equipment)	\$38,000
East Bay Recreation Area: Lost Revenue	\$19,000
Upcountry Recreation Area: Lost Revenue and Product	\$4,000
Lost Water Revenue	\$173,000
TOTAL	\$1,464,000

#### Labor hours

· Regular: 7,154 hours

· Overtime: 965 hours

# **PSPS Recreation Area Impacts**



Location	Visitors Denied Access	Visitors Evacuated
San Pablo Recreation Area	1,440	
Lafayette Recreation Area	2,731	
Upcountry	20	283



# **PSPS Opportunity Costs**



- Delayed work at
  - Water treatment plants
  - Pumping plants
  - Reservoirs and regulators
- Increased work order backlog
  - ~80 work orders
  - ~\$50,000 in overtime to date

### How Did We Do?



- No customer impacts
- Positive customer response
- Employees stayed safe
- Gained EOT experience



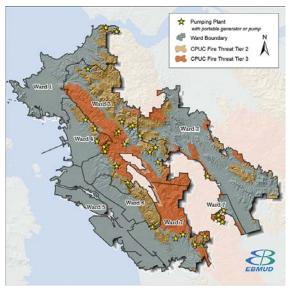


# **Keys to Success**



- Preparation
- Coordination
- · Pre-deploying equipment





### **Keys to Success**



- Prepared messages in advance
  - Employees, elected officials, customers
  - Social media
  - News media
- Website with map
- Community meetings



# **Keys to Success**



#### Our employees









## **Generic PSPS Timeline**



5 TO 9 DAYS

48 Hrs

4 Hrs 24 - 72 Hrs

24 - 48 Hrs

24 - 48 Hrs



















ADVANCED NOTIFICATION

**DE-ENERGIZATON** 

**PSPS** 

**RE-ENERGIZATION** 

**DE-Mobilization** 

# **Next Steps**



- · Op-Ed from Bay Area water agencies
- · Incorporate lessons learned into plan
- Meet with PG&E
- Prepare generator rental for 2020
- Participate in CPUC process

# Questions

