











Rogue Drinking Water Provider Perspective

Ben Klayman; Director of Water Quality and Treatment Jason Canady, Public Works Director (Grants Pass)

Rogue Basin Wildfires and Drinking Water Supplies – Impacts and Opportunities Workshop

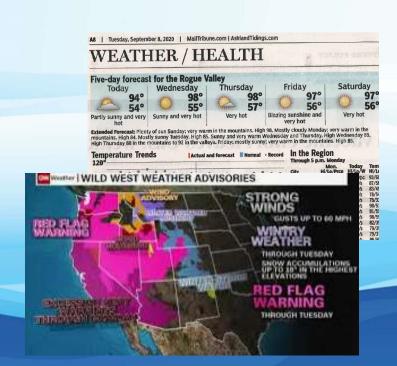
January 12, 2021

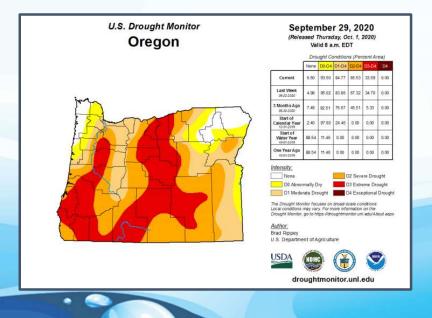


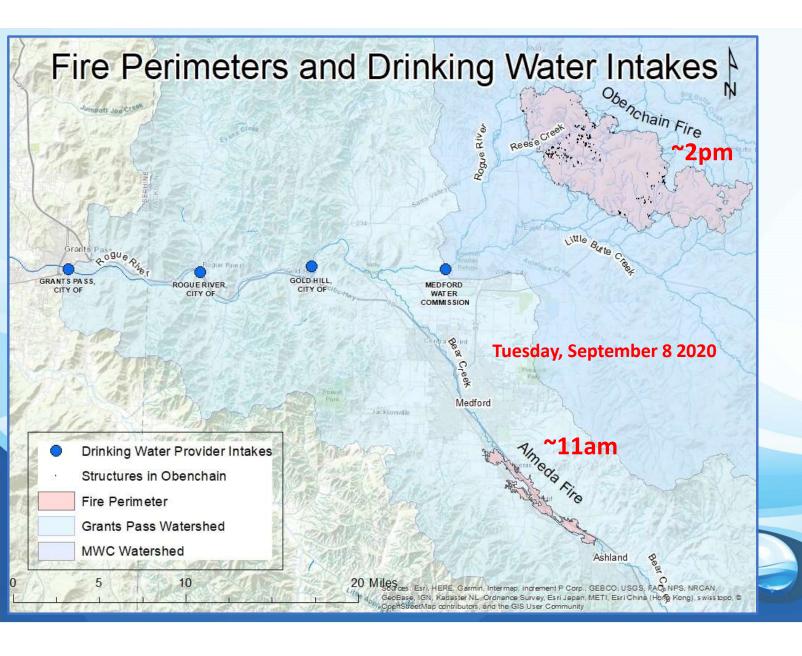


The stage had been set for extreme fire conditions

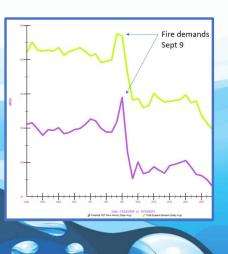
- Unprecedented winds; Extreme fire danger
- Jackson County in Extreme Drought
- Risk of power outages, particular at WTP

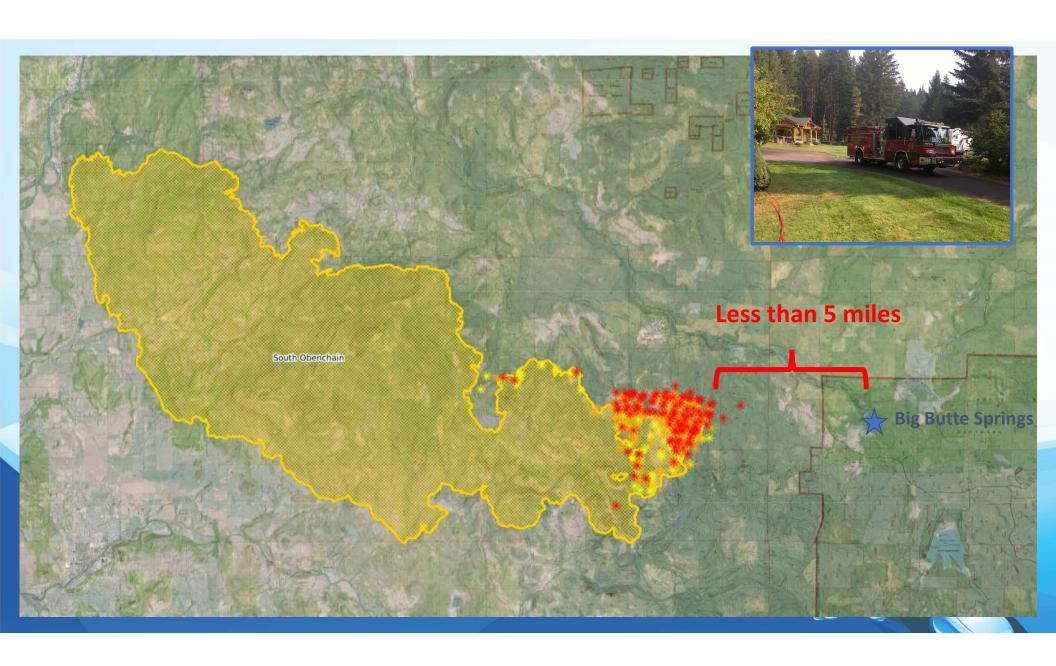












Risks to Drinking Water

- Turbidity
- pH and alkalinity
- Temperature
- Organic carbon and nutrients
- Disinfection byproducts
- Harmful algal blooms
- Metals concentrations
- VOCs and other "contaminants"

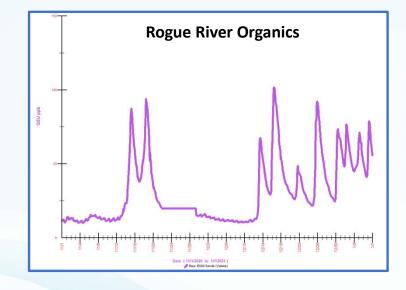


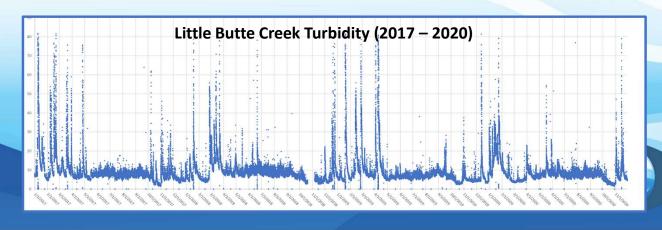


Source Water Monitoring

- Updated source water monitoring plan
 - Frequency
 - Locations
 - Parameters
 - Improved online monitoring capabilities

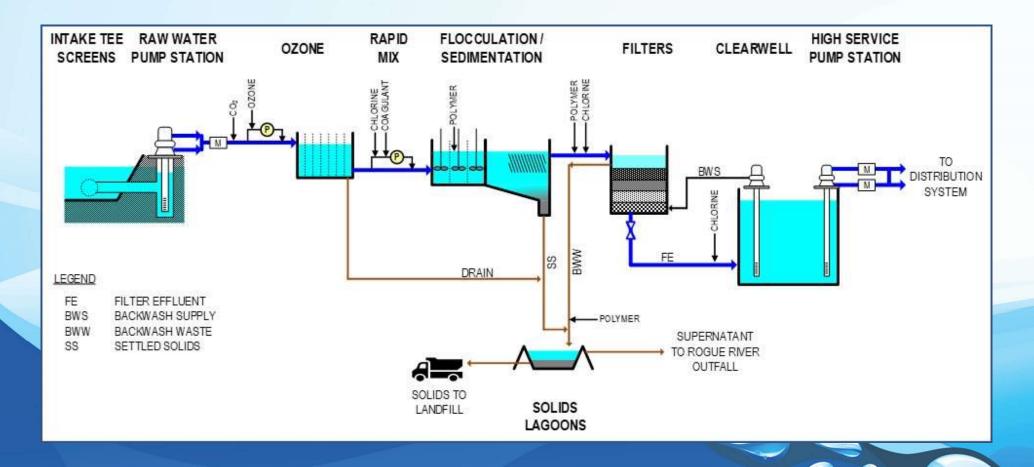
Data Analysis







MWC Treatment Resilience



Backup Power Resilience

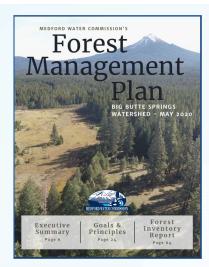
Enable production of up to 23 mgd fully treated water without grid power Scheduled to be online summer 2021





Source Watershed Resilience

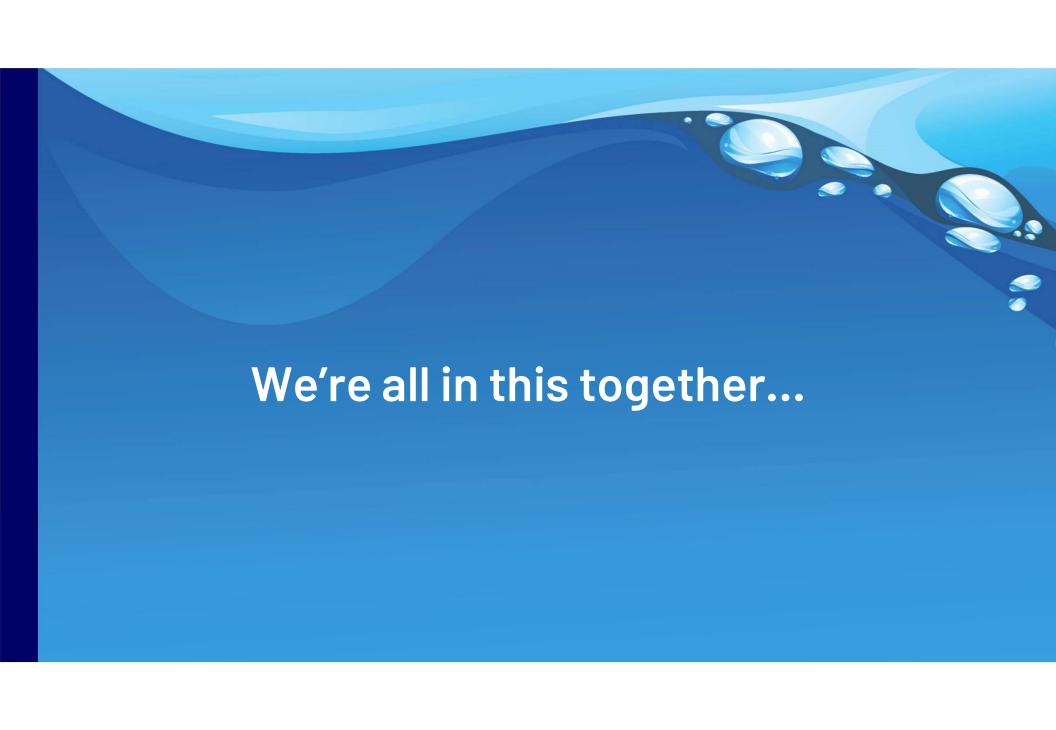
- Forestry
 - Forest management on MWC land
 - Collaboration with Forest Service, BLM, private timber, other landowners and stakeholders
- Agriculture
 - Working with JSWCD, irrigation districts and others on Agricultural non-point source reduction
 - NWQI NRCS grant focused on upper Rogue
- Urban
 - Almeda Fire and Bear Creek
 - · Industrial and urban areas upstream of DW providers
 - Stormwater monitoring and control





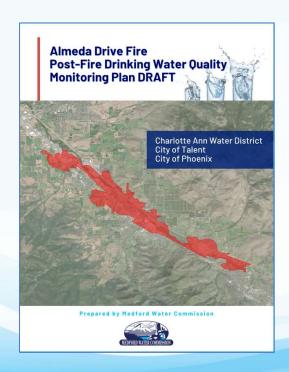






Regional Collaboration

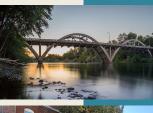
- Distribution system monitoring for VOCs
 - Talent, Phoenix, Charlotte Ann Water District sampling every burned structure prior to re-connection to water system
- Source Water
 - Increase in monitoring and data-sharing amongst Rogue Drinking Water Partners (RDWP)
 - Regional emergency response plan development
- Partnering Agencies
 - State / County agencies providing guidance and resources
 - Non-profits





Grants Pass Perspectives

- Collaboration is key to ensuring safe drinking water
 - Shared resources such as online instrumentation assists all utilities in monitoring potential threats
- Development of enhanced tools is needed
 - Models to predict time of travel in local waterways
 - Real-time, online data sharing
 - <u>Affordable</u> instrumentation to provide accurate data without the need of slow and expensive lab testing
- All partners will be better prepared for the next event which we hope will never happen













Grants Pass Perspectives

- Initial data has not revealed any immediate reasons to be worried
 - Continued monitoring will be required
- It is hard to say that the data is "not typical" most utilities do not monitor raw water to the extent that it is being done in response to this fire
 - Finished water is all that traditionally matters
- More data will be required to create a good post rainfall profile of the source water to assist operators to make decisions ahead of future events











THANK YOU

Medford Water Commission 200 S. Ivy Street - Room 177 | Medford, Oregon 97501 541.774.2430

