Winter Storm Uri UPDATE

Austin Water Oversight Committee | January 20, 2022



Presentation Overview

Prioritization, Implementation and Reporting

Greg Meszaros Director

Community Outreach and Messaging

Randi Jenkins Assistant Director of Customer Experience

Winterization of Operations

Stephanie Sue, P.E. Water Treatment Operations Manager

Emergency Management

Anna Bryan-Borja Assistant Director of Business Services

Infrastructure Improvements Priorities

Shay Ralls Roalson, P.E. Assistant Director of Engineering Services



Prioritization, Implementation & Reporting

- Prioritization Commission Working Group Recommendations
- Implementation Executive Chaired Teams
 - Community Outreach and Messaging (AD Randi Jenkins)
 - Operations (AD Rick Coronado)
 - CIP Projects (AD Shay Ralls-Roalson)
 - Emergency Management (AD Anna Bryan-Borja)
 - Systems Planning (AD Kevin Critendon)
 - Master Steering Committee (Director Greg Meszaros)

Reporting

- Quarterly Austin Water Oversight Committee Meetings
- Quarterly Commission Meetings
- Example 2018 Colorado River Flood



Community Outreach and Messaging

Randi Jenkins

Assistant Director, Customer Experience



Communications Strategies Key Recommendations

- Adjust and enhance Winter Weather Preparedness messaging
- Increase use of My ATX Water portal notifications during emergencies
- Conduct targeted outreach to multi-family properties
- Enhance guidance and training for use of public notification systems



Winter Weather Preparedness Materials

Tips, Social Posts, Notifications - 6 languages

Winter Weather **Preparedness Tips**



Prepare for Freezing Weather



LOCATE YOUR WATER SHUTOFF

Make sure everyone in your residence knows where the water main shutoff valve is located and keep it clear of debns and obstacles at all times.

I or most homes in our service area, the property owner's shutoff valve is on your side of the water meter at the meter box. If you are not sure if you have an inside shutoff valve, check the property inspection report from when you purchased your residence. For renters, please consult with your property manager.

If you cannot find your shutoff valve or if it is damaged, then you should be prepared to access the City shutoff valve in the meter box. You may need a water meter key to open the meter box, which can be purchased at most hardware stores.

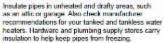




Tightly close doors and windows to the outside. Make repairs to broken or drafty windows, doors, and walls. Seal all leaks in crawl spaces and basements. Winterize unheated spaces and close garage doors for the duration of the freeze.



EXPOSED PIPES AND WATER HEATERS





CUTSIDE FAUCETS

Turn off outside faucets. Remove all connected hoses and was faucets with towels or a Styrofoam insulator. Turn off and drain automatic aprinter systems.



PREPARE BEFORE LEAVING TOWN

If you plan to be away during a time when freezing temperatures are possible, turn off your water at the meter and set your thermostat to 65 degrees or higher



RADIO and

FLASHLIGHT

■ TWO GALLONS

OF WATER per

person per day







Winter Weather Preparedness Materials

Educational Videos and Tools







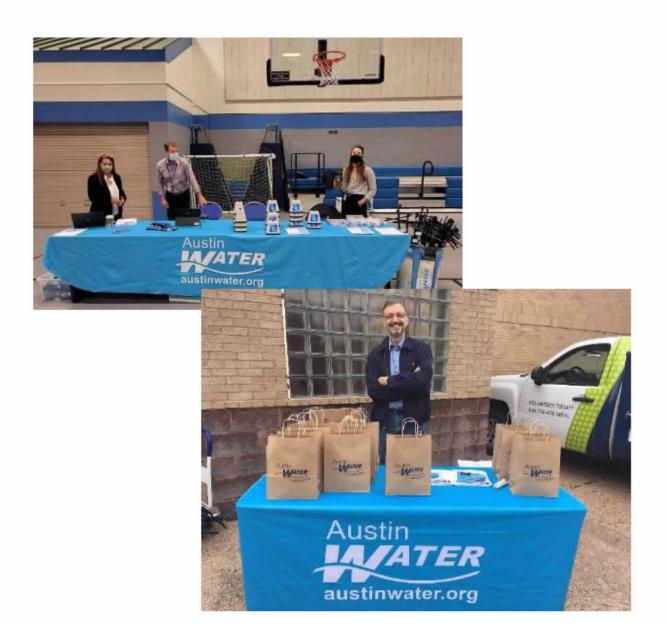
Toolkit Distribution

Community Events

- 5 community events
- Senior Activity Centers, Recreation Centers on the East side

Branch Libraries

- Tip sheets distributed to all open branch libraries
- Worked with APL staff to deliver appropriate translated materials











Toolkit Distribution COA Utilities Customer Service Centers



"I live down in South Austin. About 10 days ago you guys were passing out free water keys and hose bib covers and I went down and got one, and there were also printed blue and black sheets that were the best tips I have ever seen on prevention and fixing of water leaks. Is there a possibility you could send me some more copies? I'd like to get some to pass out to some of my neighbors. "



Additional Actions Underway

Notifications Improvements

- Warn Central Texas base maps for service areas, pressure zones
- My ATX Water staff cross-training, Standard Operating Procedures

Media Coordination

- Updates timed to align with news cycle
- Radio ads convert to emergency messaging

◆ 3-1-1 Coordination

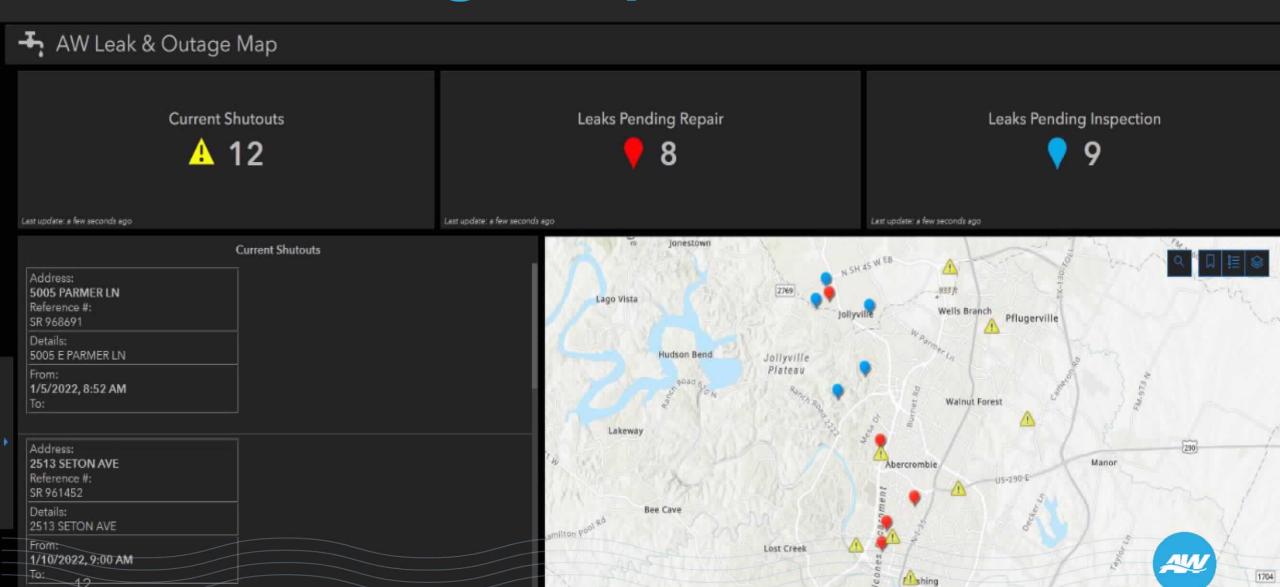
Service request routing improvements

Multifamily Outreach

- Winter Preparedness e-newsletter developed with Austin Energy
- Quarterly communications planned



Service Outage Map



Winterization of Operations

Stephanie Sue, P.E.

Operations Manager, Water Treatment Operations









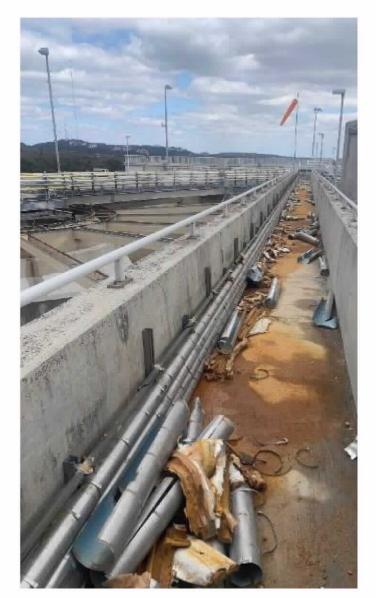
Winterization of Operations

- Winter Weather Preparations
- Updated Available Capacity Protocols
- Strategies to Achieve Maintenance with Available Capacity Protocols



Winter Weather Preparations

- Completed Storm Damage Repair and Piping Insulation
 - Critical repairs completed
 - Insulation and winterization of piping and equipment completed
- Secured Alternative Chlorine Analysis Tools
 - Alternative tools do not rely on lab supplies







Winter Weather Preparations

Winter Weather and Safety Supplies Stocked

- For facility preparation: sand, deicing, and heaters
- For employee safety: boot spikes, tire chains, cots, ready to eat meals

Winterization Standard Operating Procedures Updated

 Common Winter and hard freeze steps depending on severity of freezing weather







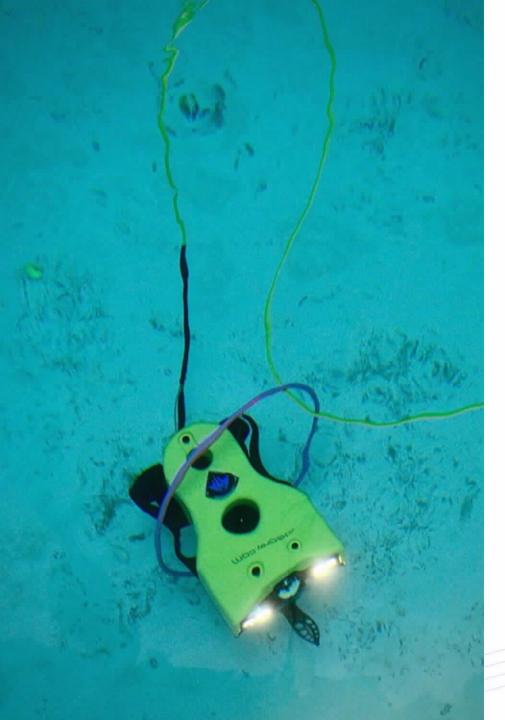




Updated Capacity Availability Protocols

- Updated Maintenance and Operations Protocols
 - Enable AW to be able to meet higher water demands in the winter season, if needed
- Impact for Maintenance and Construction Projects
 - Fewer basins and facilities can be offline at the same time requiring new strategies to keep up maintenance and construction





Strategies to Achieve Maintenance with New Capacity Protocols

- Facility Concurrence Process
 - Aids planning and helps avoid multiple outages
- Situational Awareness
 - Tracking chemical storage, staffing availability, and production capacity
 - Reporting of pumpage, usage and storage
- Using Technology to Inspect In-Service Infrastructure
 - Implementing Remotely Operated Vehicle (ROV) to inspect tanks while in operation



Emergency Management

Anna Bryan-Borja

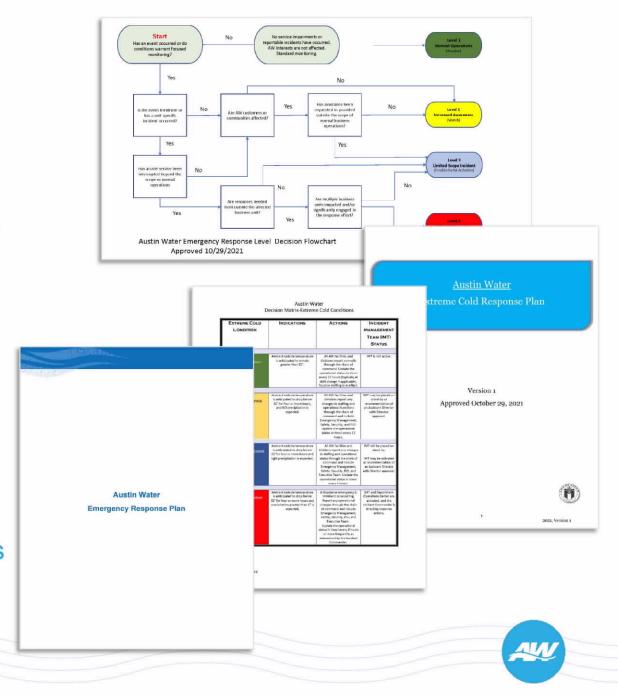
Assistant Director, Business Services



Emergency Response Plan Updated

Revised Emergency Response Plan includes:

- Extreme Cold Response Plan
- Decision Matrices:
 - Extreme Cold Conditions
 - · General Operations Conditions
- Enhanced Emergency Communications
- Emergency Alternate Drinking Water Supplies
- Added Data on Wastewater Facilities
- Emergency Water Use Restrictions Procedures



Updated ERP Promotes Situational Awareness

Level 1
Normal Operations
(IMT Not Activated)

 Decision Matrices for Incident Management Team consider:

National Weather Service forecasts for extreme weather

- AW operational status and impairments
- External events in the community
- As conditions worsen,
 IMT status is elevated
- Pre-determined activation triggers prepare for varied incidents beyond weather

Level 2
Increased Awareness
(IMT Possible Stand-By)

Level 3
Limited Scope Incident
(IMT on Stand-By, Potential Activation)

Level 4
Utility-Wide Incident
(IMT Activated)



Staffing and Training

Expanded Emergency Management Team

Three FTEs added in FY 22

Emergency Plans Officer Senior

Focus on community resilience

Co-located with HSEM part-time

Incident Management Team

Three rotating shifts

Enhanced communications role

Reporting process

Incident Command System Training

Online and in-person training

Reporting process



Emergency Supplies

Hub Warehouse Equipped for Incidents and Emergencies

- Shelter in Place Supplies for staff: cots, blankets, meals ready to eat, bottled water, and hygiene kits
- Emergency water distribution supplies for customers: bottled water, water totes, fire hydrant adaptors
- Two Potable Water Trucks
 Delivered
- Bottled Water Contracts Ready
 - Local vendor with supply on hand
 - Second vendor for multiple truck load shipments



Infrastructure Improvements Priorities

Shay Ralls Roalson, P.E.

Assistant Director, Engineering Services



Infrastructure Improvement Priorities

- Accelerated Projects
- Water System Resiliency Projects
- Electrical Reliability Projects
- Collaboration with Austin Energy



Accelerated Projects

Southwest Parkway Elevated Storage Tank and Transmission Main

New 2-million gallon water storage tank to serve Southwest B pressure zone

McNeil Road Transmission Main

 72-inch water main to increase flow from Handcox Water Treatment Plant into the North and Northwest Austin pressure zones

Center Street Pump Station

 Replace pump station, including electrical improvements, to serve customers in the South pressure zone



Water System Resiliency Projects

North Austin Reservoir

 Replacing reservoir built in 1913 (construction underway)

My ATX Water

 Replacing nearly 250,000 water meters with smart meters and implement a customer portal to communicate about water use (meter installation in progress)





Water System Resiliency Projects

Renewing Austin

- Replace small diameter poor performing pipes (ongoing since 2011)
- 37 miles of new water pipeline in the works
 - 9 projects in construction
 - 30 projects in design

Aquifer Storage and Recovery

 Water Forward water supply strategy for storing water in a natural aquifer (pilot project underway)

South I-35 Elevated Storage Tank

New 3-million gallon storage tank



Electrical Reliability Projects

Davis Water Treatment Plant Power Distribution Upgrade

 New power distribution building with electrical gear to distribute dual feed service (construction complete)

Ullrich Water Treatment Plant Low Service Pump Station Electrical Feed Renewal

 Replace electrical gear original to the plant (in construction)

Davis Lane Pump Station Electrical Resiliency Project

Secure secondary power source for pump station

South Austin Regional Wastewater Treatment Plant Substation No. 1

 Replace electrical gear original to the plant (in construction)

Lift Station Generators

Additional generators at priority wastewater lift stations



Collaboration with Austin Energy

Davis Water Treatment Plant

Implement ability to transfer power between feeds on the Austin Water side

Ullrich Water Treatment Plant

Implement third feed with automatic transfer capability at Bee Cave Substation

Lift Stations, Pump Stations and Data Centers

Maintain load list

Electrical Reliability as a Service

Evaluate locations for third-party power generation





SB3 Emergency Preparedness Plan

SB3 Deadlines

- November 1, 2021: Notify power providers of critical loads (complete)
- March 1, 2022: Submit EPP to TCEQ identifying options to be used (on track)
- July 1, 2022: Implement EPP (on track)

Extensive system-wide review of AW water facilities

- Electrical system hardening and redundancy at critical sites
- Critical Load designation status from Austin Energy for critical facilities
- Treatment, pumping, and storage capacity management and demand management



