

# Water Resources Council (WRC)

October 13, 2021



North Central Texas Council of Governments

Environment  
& Development

[www.nctcog.org/WaterResources](http://www.nctcog.org/WaterResources)

# Procedures for Online Meeting

- Today's presentation is posted on the WRC website at: <https://www.nctcog.org/envir/committees/water-resources-council>
- Roll call today in lieu of sign-in sheet.
- Please state your name and entity you are representing when you ask a question or provide a comment.
- Please keep your microphone on mute when not speaking.
- Approval of action items will still be done by a voice vote. Please only vote if you are a member of the WRC.

# Water Resources Council

## October 13, 2021

### **1. Welcome and Introductions**

#### **i. Attendance**

### **2. New Member Welcome**

- Billy George, Assistant Deputy - Water  
North Texas Municipal Water District
- Danielle Tucker, CEO/President  
DEVA Service's

# Action Items

## 3. Meeting Summary

The [July 14, 2021 meeting summary](#) will be presented for approval.

# Presentation

## 4. U.S. EPA's Lead and Copper Rule Revisions and Information on SB 3

Scott Cole, P.E., Principal/Vice President  
Group Manager  
Water/Wastewater Planning  
Freese and Nichols

Jessica Brown, P.E., Vice President  
Practice Leader  
Water/Wastewater Planning  
Freese and Nichols

# Revised Lead and Copper Rule

**Two Decades in the Making,  
Three Years for You to Prepare**

# Presenter



**Scott Cole, PE**  
Vice President  
Group Manager  
W/WW Planning

## Key Points

1. All (retail) municipalities will be affected by rule
2. Every municipality will have to take action.
3. The compliance effort will change in relation to a municipality's level of risk and resources.
4. Municipalities should **start preparing now** ahead of 3-year\* deadline
5. Help is available

\* Pending legislative action



A glass of water with a splash, set against a blue background with a yellow rounded rectangle.

# LCR Content

**Rule Changes, Challenges, and  
Opportunities**

# Summary of Major Changes



## Action Level and New Trigger Level

- Action level will remain the same
- Trigger level added. Affects:
  - Corrosion control studies and optimization
  - LSL replacement rate

**15**

µg/l

Action  
Level

**10**

µg/l

Trigger  
Level

# Lead Service Line Inventory

- All systems must develop an LSL inventory
- Include public and private service lines
- Identification of:
  - Non-lead service lines
  - Lead service lines
  - Galvanized requiring replacement lines
  - Lead status unknown lines
- Updated annually or triennially

# Public Communication

- Publicly Available LSL Inventory
- Annual notification to homeowners with lead or potentially lead SL's
- System-wide notification of a P90 Action Level exceedance within 24-hours
- Public education material to schools, childcare facilities, mid-wives, and OBGYN's
- Communication with state and local health agencies
- And more...

**What is the Cost?**  
The indirect cost of the above lead water service replacement will be determined after an initial review of the property. A public report is available to qualify for a credit of up to \$1000 towards the cost of the replacement by sending in the necessary support.

**How Can I Pay?**  
Property owners will have the ability to pay for the lead water replacement either:

- In a lump sum payment
- Interest free, over a 60-month period as part of the water and sewer bill

**How to Apply**

**WE ARE ALL CONNECTED**  
Let's protect Boston's waterways.

Boston Water and Sewer Commission

**The Lead Replacement Incentive Program**



**Water Boards Fact Sheet**

**Frequently Asked Questions: Lead Service Lines and the Unknown Materials**

*\*DISCLAIMER: This document is intended to provide answers to questions that may arise regarding lead service lines to public water systems. Nothing in this document supersedes any statutory or regulatory requirements or permit provisions for public water systems.*

**What are the new general requirements in 116885?**  
Section 116885 of the California Health and Safety Code, Lead Service Lines in Public Water Systems, added to the Health and Safety Code by Senate Bill 1386 (2016) and amended by Senate Bill 427 (2017), requires all community water systems (CWSs) of known partial or total lead user service lines in use in its distribution system to identify and replace lead service lines in use in its distribution system that the CWS cannot identify the material that is in use. CWSs that identified known lead user service lines and/or user unknown materials are required to prepare a schedule to replace all lead service lines and user service lines constructed of unknown material of Section 116885 is below:

116885 (a) By July 1, 2018, a community water system shall complete lead user service lines in use in its distribution system and identify all user service lines in use in its distribution system.

(b) (1) By July 1, 2020, a community water system that has identified lines in use in its distribution system as provided in subdivision (a) for replacement of known lead user service lines in use in its distribution system.

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC UTILITY CONTROL  
1501 Street, Sacramento, CA 95811 • Public Address: PUC, SAC, 1000 Sacramento St. 95811-0001

**Lead Out IMPORTANT HEALTH NOTICE**

**Flushing After your Lead Service Line Replacement**

After your lead service line has been replaced, it is important to flush all of the pipes in your house. Flushing of lead service lines may have released the cleanest water in your house. Flushing of lead service lines may have released the cleanest water in your house. Flushing of lead service lines may have released the cleanest water in your house.

**Flushing Instructions**

1. Flush the house that has been replaced, including the basement and all floors in your house.
2. Flush each section of lead service line separately, including the above ground, from all fixtures (a pipe to flush includes the laundry tub, the sink, the bathtub, and showers w. flushing panel).
3. After all the sections are flushed, flush the lead service line from the basement level back to the house level all levels, running at a 90 degree angle, using cold water.
4. After this flush is complete, flush the lead service line from the basement level back to the house level all levels, running at a 90 degree angle, using cold water.
5. After all flushes are complete, leave the water running for 15 to 30 minutes.
6. After 30 minutes, turn off the lead service line, you cannot end the line to turn off other sections of the water service line and then run.
7. Clean water faucets at each faucet. You may need to replace the faucet aerator that is old or clogged. Clean it a 20 minutes flush every other aerator for three months.




**Cleaning Your Aerator**

1. Remove your aerator and clean out any particles that may have accumulated there. The aerator should be fully cleaned. The aerator can be cleaned off to clean.
2. After your lead service line is flushed, the aerator should be replaced once a month for six months. After six months, clean aerator once a year.

**Daily Flushing**

Only faucet should continue for six months after your lead service line is replaced. Flush water through the piping in your house for 5 minutes each morning for the first six months after the lead service line is replaced. After six months, flush water through the piping in your house for 5 minutes each morning before drinking.

Water Safety is a Division of the California Department of Public Utility Control

## Sampling and Compliance Measurements

The result will be more utilities will be above the compliance threshold

### New Sampling Locations

- Focus on Schools and Child Care
- Prioritizes higher risk “tiers”
- Must sample LSL’s if known

### New Compliance Levels

- 10 µg/l Trigger Level added
- 15 µg/l Action Level remains

### New Sampling Protocol

- 1<sup>st</sup> and 5<sup>th</sup> liter after 6 hrs stagnation
- Prohibits flushing and aerator removal

### New Sampling Frequency

- Semi-annually (if P90 > 15 ug/L)
- Annually (if P90 > 10 to 15 ug/L)
- Reduced monitoring exists, but most utilities must re-establish compliance

# Lead Service Line Replacement

**< 10  $\mu\text{g}/\text{l}$**

No LSL  
replacement  
required\*

**10 - 15  
 $\mu\text{g}/\text{l}$**

Goal  
established  
with  
primacy  
agency,  
2-yr min

**> 15  $\mu\text{g}/\text{l}$**

Must  
replace 3%  
per year,  
based on 2-  
year avg.

\*Must replace/resolve individual  
“find & fix” sites where > 15ppb

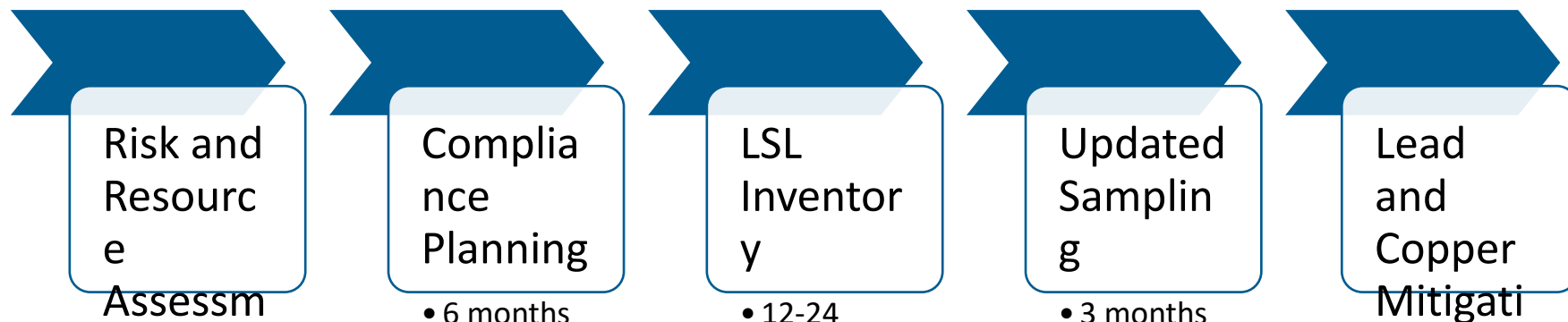


# Approach

**FNI's Approach to Compliance**



# FNI Recipe for Compliance Success

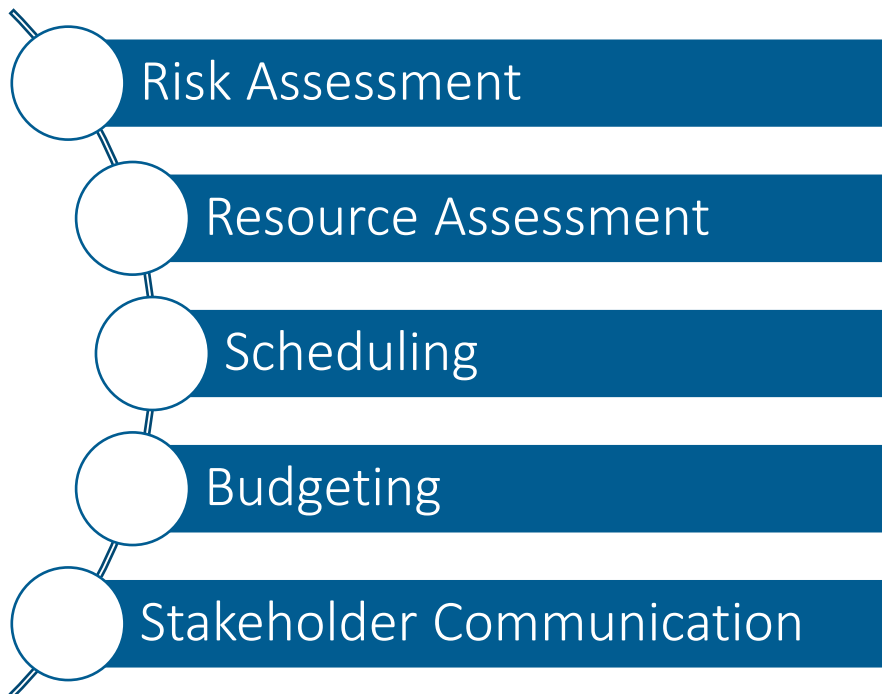


	2021				2022				2023				2024			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Phase 1 - Risk and Resource Assessment																
Phase 2 - Compliance Planning																
Phase 3 - Prioritized LSL Inventory Implementation																
Phase 4 - Sample Plan Update and Preliminary Sampling																
Phase 5 - Lead and Copper Mitigation																

Rule Effective Date  
(Dec 16, 2021, pending federal action)

Compliance Deadline  
(Oct 16, 2024, pending federal action)

## Phase 1 - Recommended Initial Steps



A glass of water with a splash, set against a blue background with a yellow rounded rectangle.

# Resources

**Funding, Training and Support**

# Organizations

- LSLR Collaborative
  - [lsr-collaborative.org](http://lsr-collaborative.org)
- EPA
  - [www.epa.gov/ground-water-and-drinking-water/final-revisions-lead-and-copper-rule](http://www.epa.gov/ground-water-and-drinking-water/final-revisions-lead-and-copper-rule)
  - [www.epa.gov/ground-water-and-drinking-water/3ts-reducing-lead-drinking-water-toolkit](http://www.epa.gov/ground-water-and-drinking-water/3ts-reducing-lead-drinking-water-toolkit)
- Water Research Foundation
  - [www.waterrf.org/research/topics/lead-copper](http://www.waterrf.org/research/topics/lead-copper)
- AWWA
  - [www.awwa.org/Resources-Tools/Resource-Topics/Inorganic-Contaminants/Lead](http://www.awwa.org/Resources-Tools/Resource-Topics/Inorganic-Contaminants/Lead)



# Training and Education

- Webinars

- **Recorded**

- AWWA Final LCR Revisions, January 28, 2021
    - AWWA Virtual Summit – Lead & Water Quality
      - April 7-8, 2021
      - [awwa.org/VirtualSummit](http://awwa.org/VirtualSummit)
    - Examining the Importance of Corrosion Control – Research Webinar
      - July 14, 2021
      - [awwa.org/webinars](http://awwa.org/webinars)

- Industry Guidance Documents

- EPA RLCR Prepublication Document
  - AWWA C810 – Replacement and Flushing of Lead Service Lines
  - AWWA LSLR Communication Guide

- FNI Documents

- Summary Brochure
  - FAQ
  - Recommended Scope of Work

# Funding Opportunities

- **State**

- State Water Development Board Loans
- Community Development Block Grant

- **Federal**

- Water Infrastructure Improvements for the Nation (WIIN) Act
- Water Infrastructure Finance and Innovation Act (WIFIA) Program
- Healthy Communities Grant Program
- US Dept. of Agriculture (USDA) Rural Development Fund
- American Jobs Plan (TBD)

## AMERICAN JOBS PLAN

- Currently in Congress
- \$15 billion via DWSRF and WIIN
- Eliminate all LSLs serving:
  - ✓ Homes
  - ✓ Schools
  - ✓ Childcare facilities

A tall, clear glass filled with water, with a dynamic splash of water captured mid-air above the surface. The glass is centered vertically and horizontally. The background is a solid blue color with a subtle diagonal gradient. A bright yellow rounded rectangle is superimposed over the center of the image, containing the text.

# Wrapping Up

**Key Points**

## Recap of Key Points

1. All (retail) municipalities will be affected by rule
2. Municipalities must:
  - Be prepared to “Find-and-Fix” individual exceedances
  - Prepare a Lead Service Line Inventory,
  - Update Sampling Plan,
  - Enhance Public Communication
3. Municipalities may have to:
  - Develop a LSL Replacement Plan,
  - Optimize corrosion control,
  - Increase LSL replacement rate
4. Municipalities should **start preparing now** ahead of 3-year deadline
5. Help is available

Questions?



A photograph of a water treatment plant with large pipes and machinery, overlaid with a blue gradient and a white box containing the text "Senate Bill 3 (SB3)".

# Senate Bill 3 (SB3)

# Presenter



**Jessica Brown, PE**  
Vice President  
Practice Leader  
W/WW Planning

# *Multiple Points of Failure Experienced during February Winter Storm Uri*

1

Inadequate Power Supply to Address Emergency Needs

2

Lack of Identification of Critical Customers

3

Inadequate Resiliency Capacity with Electric, Gas & Water Utilities

4

Extended Duration of the Emergency & Impact To Critical Supply Chain

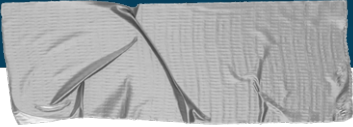
5

Inadequate Coordination Between Critical Utilities & Regulatory Entities

6

Inconsistent Communication with Customers

# Three Phase Approach for SB3 Compliance



## **Phase A:** **Identify Critical Water & Wastewater Facilities**

- Request sent to retail electric providers & transmission & distribution utilities.



## **Phase B:** **Submit Emergency Preparedness Plan to TCEQ**

- Assess critical water system improvements/operational changes required to deliver these demands at a minimum of 20 psi



## **Phase C:** **Implement Preparedness Plan**

- Plan/construct improvements and make operational changes to fully implement EPP
- TCEQ is required to inspect

### DEADLINES

November 1, 2021

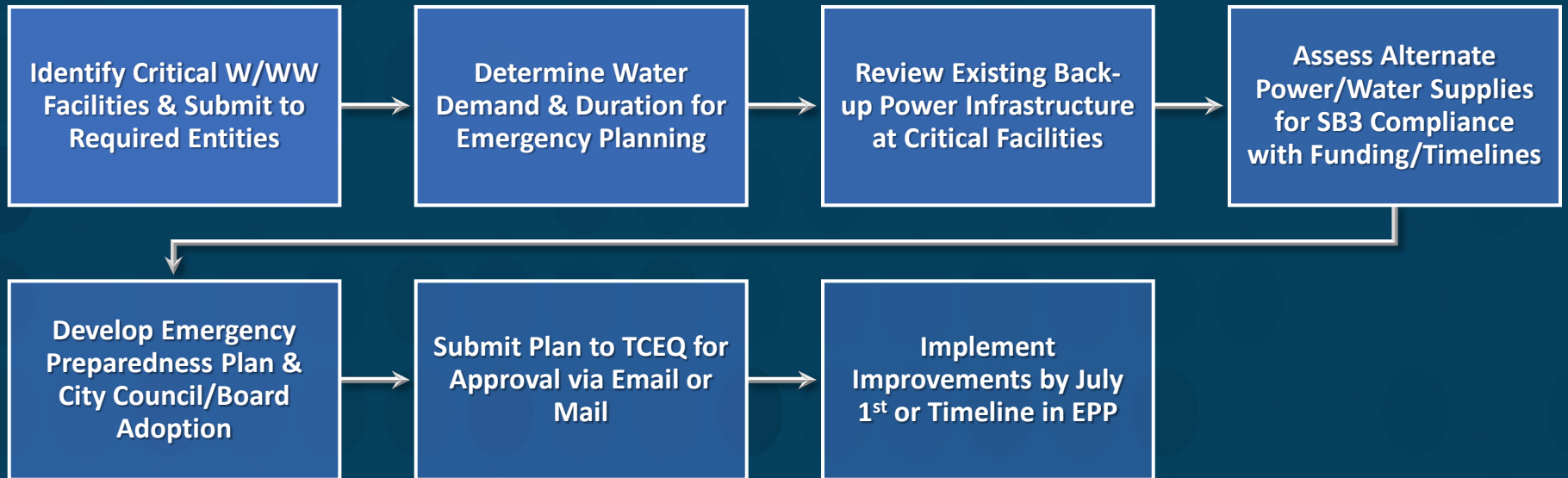
March 1, 2022<sup>1,2</sup>

July 1, 2022<sup>1</sup>

Notes: <sup>1</sup>90-day extension can be requested.

<sup>2</sup>TCEQ review period is 90 days or 30 days if prepared by P.E.


# Emergency Preparedness Plan Development Process



# Identify Critical Water & Wastewater Facilities

**DEADLINE: NOVEMBER 1<sup>st</sup>**

- “Critical Load Public Safety” request
  - Transmission & Distribution Utility (TDUs)
  - Retail Electric Providers



**AEP Texas Application for Critical Load Industrial or Critical Load Public Safety Designation**

SEND COMPLETED FORM TO: [CriticalLoadAEP TX@aep.com](mailto:CriticalLoadAEP TX@aep.com)

This Application should be completed in order to request the designation of Critical Load Industrial Customer, Critical Load Public Safety Customer with AEP Texas, as defined below. The Application must be submitted to AEP Texas at the email address above. Do not include premises served by another utility in this Application.

**Critical Load Public Safety Customer** – A customer for whom electric service is considered crucial to the protection or maintenance of public safety, including but not limited to hospitals, police stations, fire stations, and critical water and wastewater facilities.

**Critical Load Industrial Customer** – An industrial customer for whom an interruption or suspension of electric service will create a dangerous or life-threatening condition on the retail customer's premises as a "critical load industrial customer."

Designation of Critical Load does not guarantee an uninterrupted supply of electricity. It is the responsibility of the customer to make arrangements for alternative sources of electric power should a localized out-of-service event occur.

AEP Texas may request more information prior to implementing a designation.

**CUSTOMER CONTACT INFORMATION**

Contact Name: \_\_\_\_\_

Contact Title: \_\_\_\_\_

Mailing address (if different from Service Address): \_\_\_\_\_

Work Number: \_\_\_\_\_

Cell Number: \_\_\_\_\_

E-Mail Address: \_\_\_\_\_

**SERVICE ADDRESS**

Requested Designation:

Critical Load Public Safety       Critical Load Industrial

Premise Identifier (ESI ID): \_\_\_\_\_

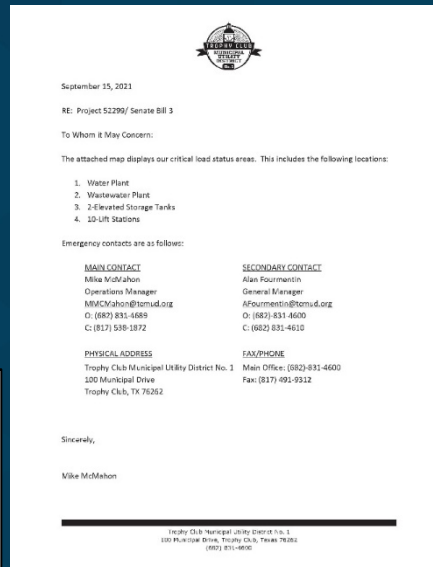
Customer Name associated with ESI ID: \_\_\_\_\_

Street: \_\_\_\_\_

City: \_\_\_\_\_

Zip Code: \_\_\_\_\_

Name of Retailer Electric Provider (if applicable): \_\_\_\_\_



- Letter submitted to:
  - PUC (Project 52299)
  - County Office(s) of Emergency Management
  - Texas Division of Emergency Management (TDEM)
- Include:
  - Location/general description of critical load w/ww facilities
  - Primary & alternate emergency point of contact & phone #; utility's mailing address

PUC online submittals are not confidential. A hard copy must be submitted to remain confidential.

# Weather Emergency Back-up Power Alternatives

**#1:** Use of automatically starting back-up generators

**#2A:** Rely on Wholesale Provider

**#2B:** Sharing generators with other utilities (TXWARN)

**#3A:** Leasing contract agreements for generator facilities

**#3B:** Mutual aid agreements for generators & fuel

**#4:** Portable generators with quick-connect systems

**#5:** On-site electrical generation facilities (i.e., solar)

**#6:** Hardening electric transmission (bury OH electric lines)

**#7:** Use of direct engine/right-angle drive pumping facilities\*

**#8A:** Designation of water system facilities as critical load facility\*\*

**#8B:** Water system has redundant, isolated or dedicated electrical feeds.\*\*

**#9:** Water storage capacity through emergency period\*

**#10A:** Water delivery through emergency interconnect\*

**#10B:** Water delivery from water hauler\*

**#11:** Ability to provide water through artesian flows\*\*

**#12:** Redundant interconnectivity between pressure zones\*

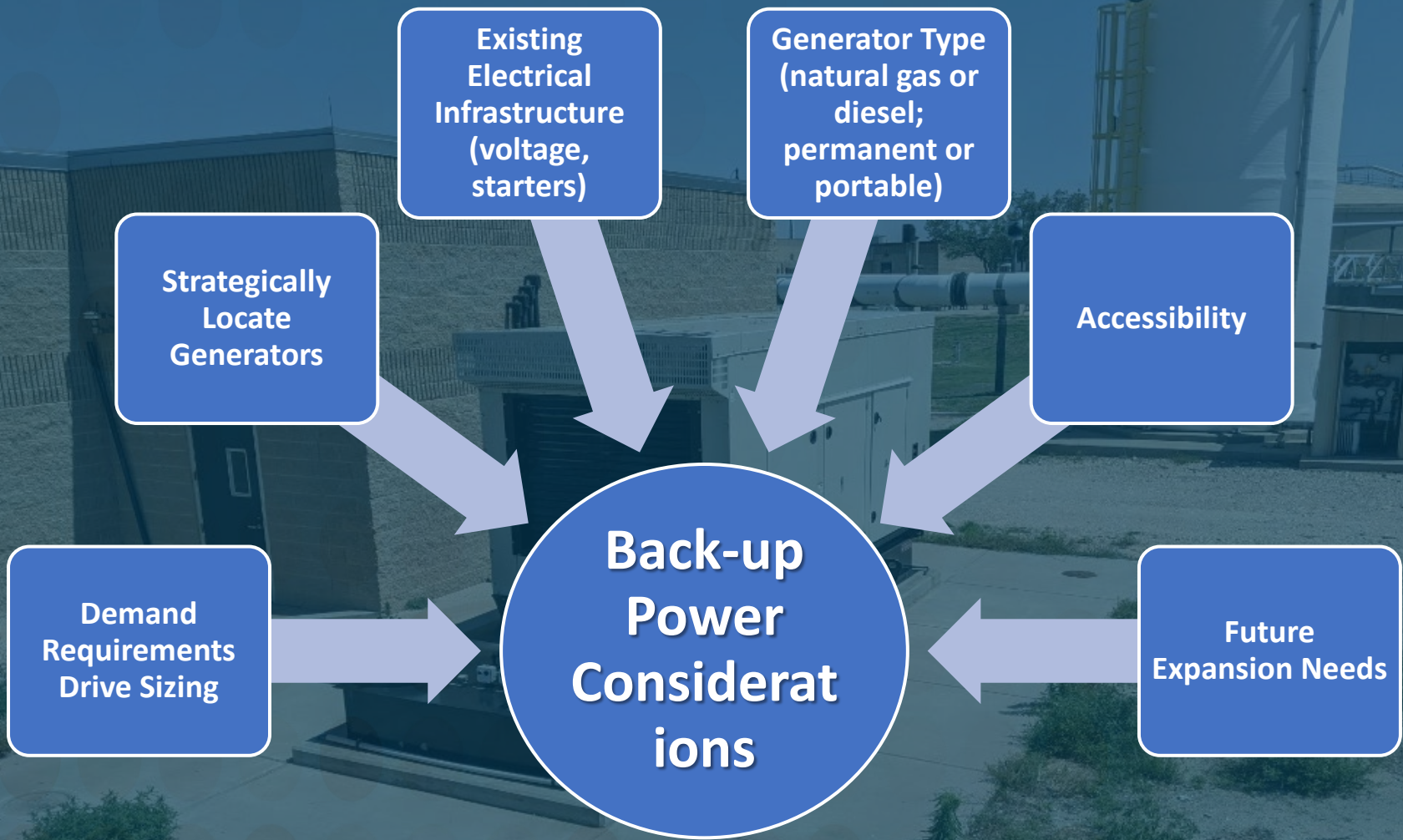
**#13:** Emergency water management rules to maintain emergency operations\*\*

**#14:** Any other alternative accepted by TCEQ

*Likely Alternatives for Medium/Larger Water Utilities*

*\* May require more than 1 option*

*\*\* Requires more than 1 option*





# Develop Implementation Plan for Emergency Operations

- Are you a wholesale customer?
  - Check obligations of wholesale contract. Can't use provider's EPP if contract doesn't allow for reliance on wholesaler.
- What improvements are needed to meet 20 psi requirement?
  - Utilize modeling/other tools to evaluate system performance and improvements.
- Implementation plan likely will include multiple options allowed in SB3.
- SB 3 required implementation by July 1<sup>st</sup>, but Water Code requires a timeline to implement (90-day extension allowed).







# Discussion

## 5. FY2022 Water Resources Council Membership

NCTCOG will present the final WRC FY2022 [roster](#) and [structure](#). New two-year terms began on October 1, 2021 and expire on September 30, 2023.

# Discussion

## 6. 2022 Water Resources Questionnaire

The WRC is asked for input on the topics and questions in the draft questionnaire.

[Link to Draft Questionnaire](#)

# Discussion

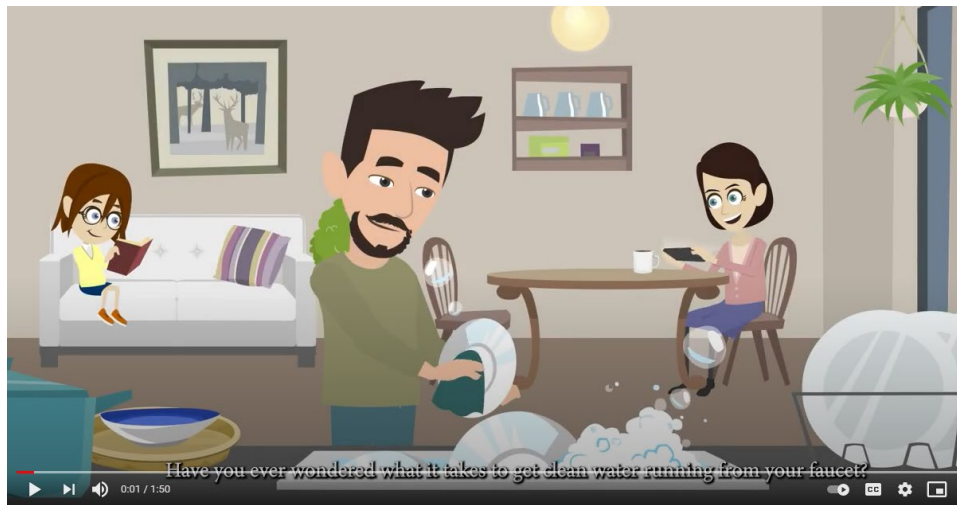
## 7. 2022 Water Resources Education and Outreach

The WRC is asked for input on the topics and speakers for upcoming webinars or workshops.

# Other Business and Roundtable Discussion

## 8. NCTCOG Updates

- a. [Final 2021 Water Quality Management Plan](#)
- b. [Outreach and Awareness Video](#) - “Importance of Properly Maintained Water and Wastewater Infrastructure”



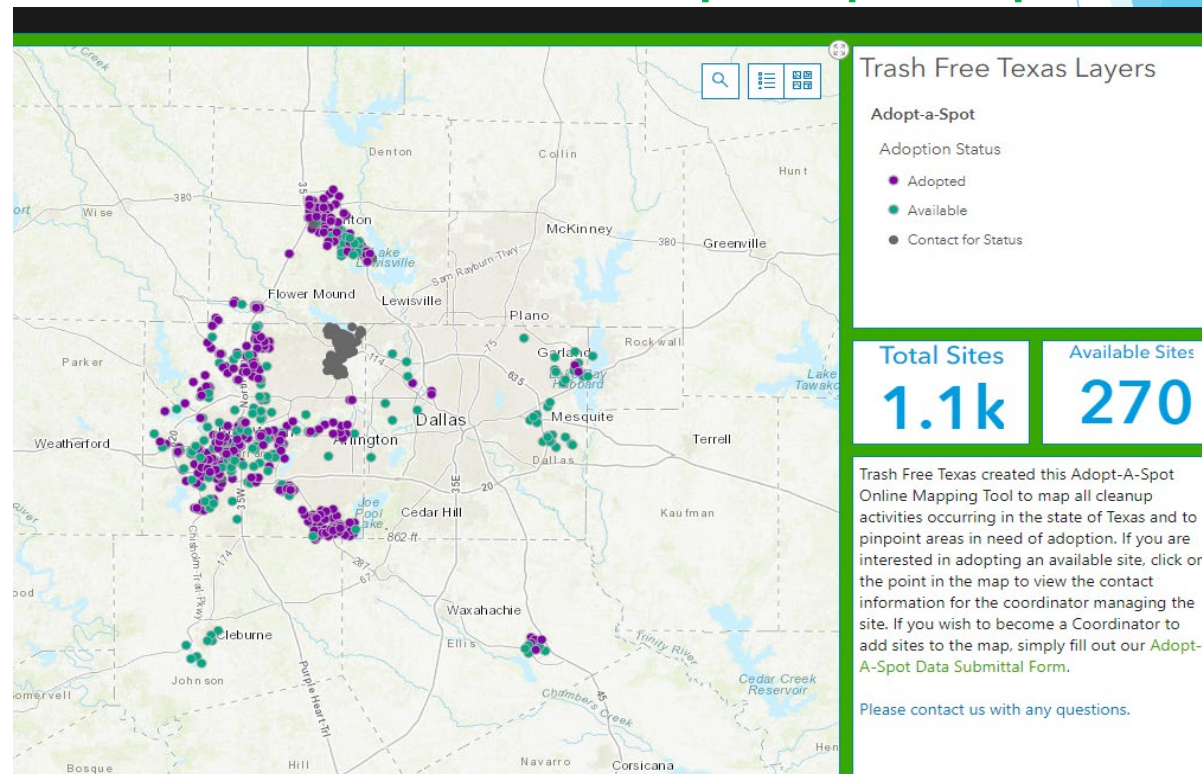
# Other Business and Roundtable Discussion

## 8. NCTCOG Updates (con't)

### c. Trash Free Waters Project

#### Trash Free Texas Adopt-a-Spot Map

**TRASH  
FREE  
TEXAS**





# Other Business and Roundtable Discussion

## 8. NCTCOG Updates (con't)

d. Wastewater and Treatment Education Roundtable (WATER)

i. [Join the 2021 Holiday Grease Roundup!](#)



November 22 - January 10

# Other Business and Roundtable Discussion

## 8. NCTCOG Updates (con't)

- e. Wastewater and Treatment Education Roundtable (WATER)
  - i. WATER Program Participation - Cost share commitments can be made online [here](#).
  - ii. New Video - [Proper Usage of Home Cleaning Products](#)

# Other Business and Roundtable Discussion

## 9. Future Agenda Items

The WRC can request future agenda items.

## 10. Roundtable

The WRC is invited to share what is happening in their communities.

# Other Business and Roundtable Discussion

## 11. Next Meetings

Wednesday, January 12, 2022 - [Add to Calendar](#) (in-person)

Wednesday, April 13, 2022 - [Add to Calendar](#) (virtual)

Wednesday, July 13, 2022 - [Add to Calendar](#) (in-person)

Wednesday, October 12, 2022 - [Add to Calendar](#) (virtual)

## 12. Adjournment

# Staff Contacts

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