

Water Resources Council (WRC)

January 15, 2020



North Central Texas Council of Governments

Environment
& Development

www.nctcog.org/WaterResources

1. Welcome and Introductions.

Action Item

2. Meeting Summary. The October 3, 2019 meeting summary will be presented for approval.

Presentation

3. Completion of Risk and Resilience Assessment and Emergency Response Plans for Cities Over 100,000.

Christine Webb, CSP, City of Fort Worth

* NCTCOG received offer of contractual assistance with meeting these requirements.



Fort Worth Water Utility AWIA Risk & Resiliency Assessment.

Christine Webb, CSP

January 15, 2020

Historical

- Public Health Security and Bioterrorism Response Act was signed into law by President Bush on June 12, 2002.
 - Added SDWA Section 1433.
- Initial requirement for community water systems to conduct a vulnerability assessment by set deadlines (submit a copy to EPA) and develop an emergency response plan (certify completion to EPA).
 - Assessment of system to terrorist attack or other intentional acts designed to disrupt the water system.
- Required EPA to develop stringent measures to protect the information found in or derived from the Vulnerability Assessments.
- EPA is the primary agency responsible for enforcing Section 1433, Fines up to ~57,300 daily.

America's Water Infrastructure Act

- **Risk & Resiliency Assessments & Response Plans**

Population served	Risk & Resilience Assessment	Emergency Response Plan
100,000 or more	March 31, 2020	Sept. 30, 2020
50,000 or more but less than 100,000	Dec. 31, 2020	June 30, 2021
Greater than 3,300 but less than 50,000	June 30, 2021	Dec. 30, 2021

Each community water system serving a population of greater than 3,300 persons shall assess the risks to, and resilience of, its system. Such an assessment shall include:

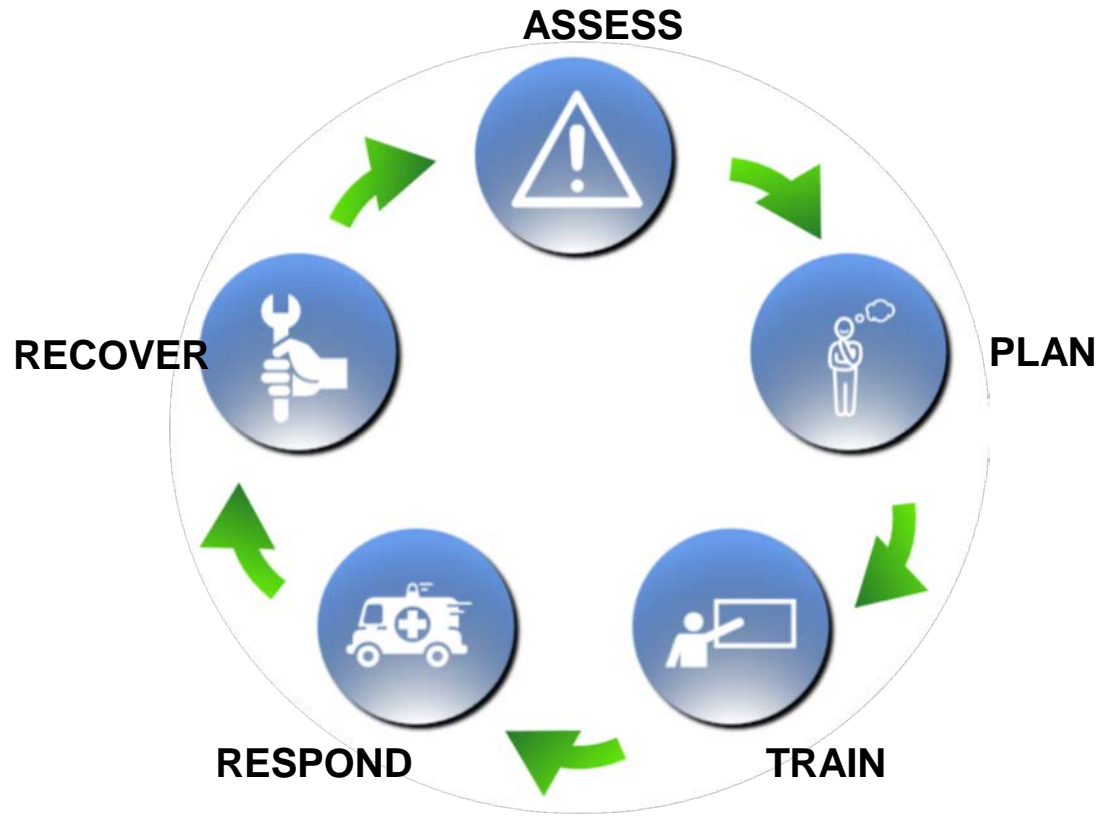
- The risk to the system from malevolent acts and natural hazards;
- Pipes/conveyances, source water, water collection/intake, pretreatment, treatment, storage and distribution, electronic, computer, or other automated systems (including security);
- Monitoring practices;
- Financial infrastructure;
- Use, storage or handling of chemicals;
- Operation and maintenance; and
- May include capital and operational needs for risk management.

**Risk (\$) = Consequences (\$) × Vulnerability (%)
× Threat Likelihood (%)**

**Resilience = Duration × Severity × Vulnerability
× Threat Likelihood**

Resiliency Framework

- Where to begin?



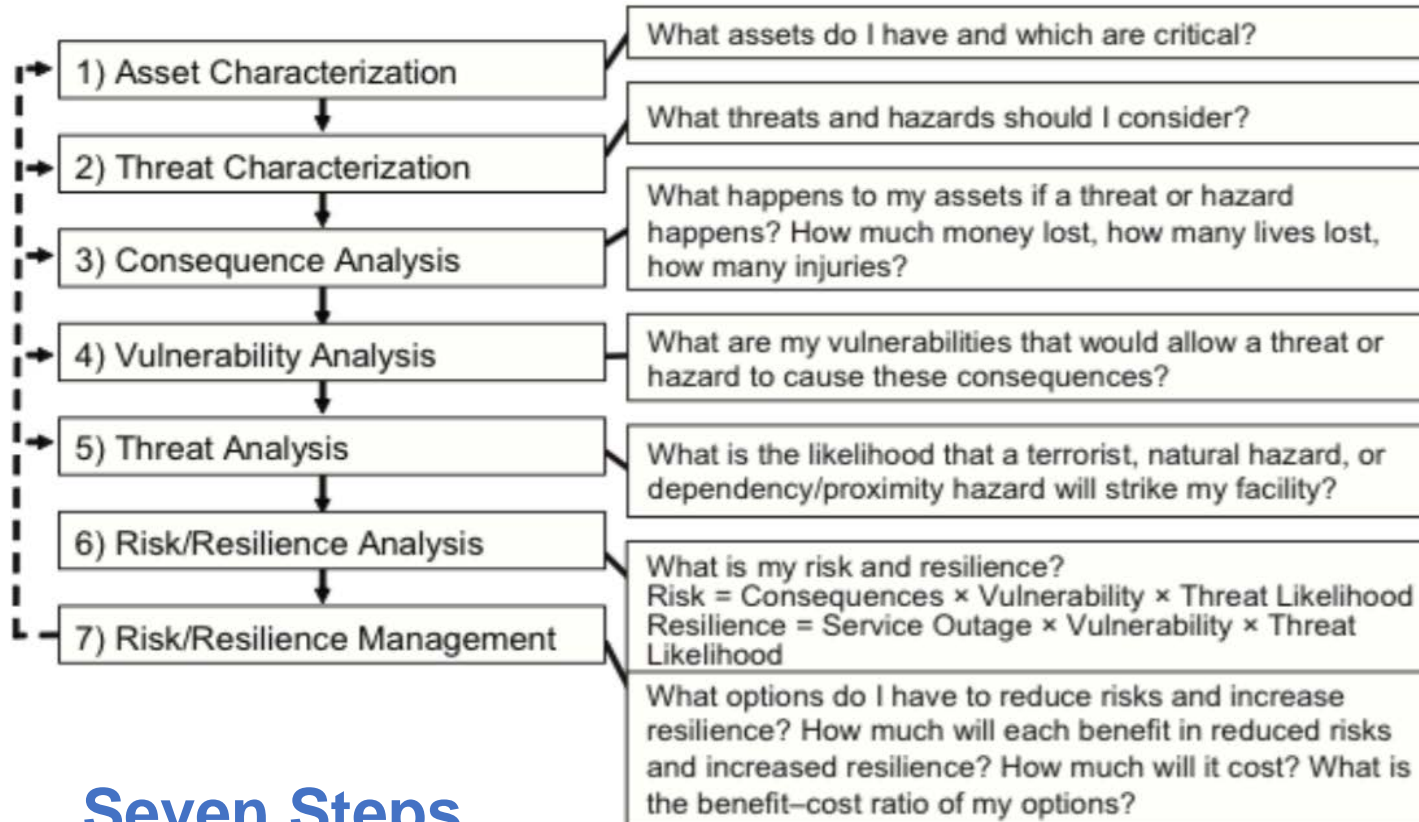
Tools and/or Methods

- AWIA does not require the use of any standards, methods or tools for the risk and resilience assessment or emergency response plan. Your utility is responsible for ensuring that the risk and resilience assessment and emergency response plan address all the criteria in AWIA Section 2013(a) and (b), respectively.
- The U.S. EPA recommends the use of standards, including AWWA J100-10 Risk and Resilience Management of Water and Wastewater Systems, along with tools from the U.S. EPA and other organizations, to facilitate sound risk and resilience assessments and emergency response plans

EPA's main goal is returning the system to compliance and protecting public health.

AWWA J-100 Risk Analysis and Management for Critical Asset Protection (RAMCAP) Standard for

Risk and Resilience Management of Water and Waste



Seven Steps

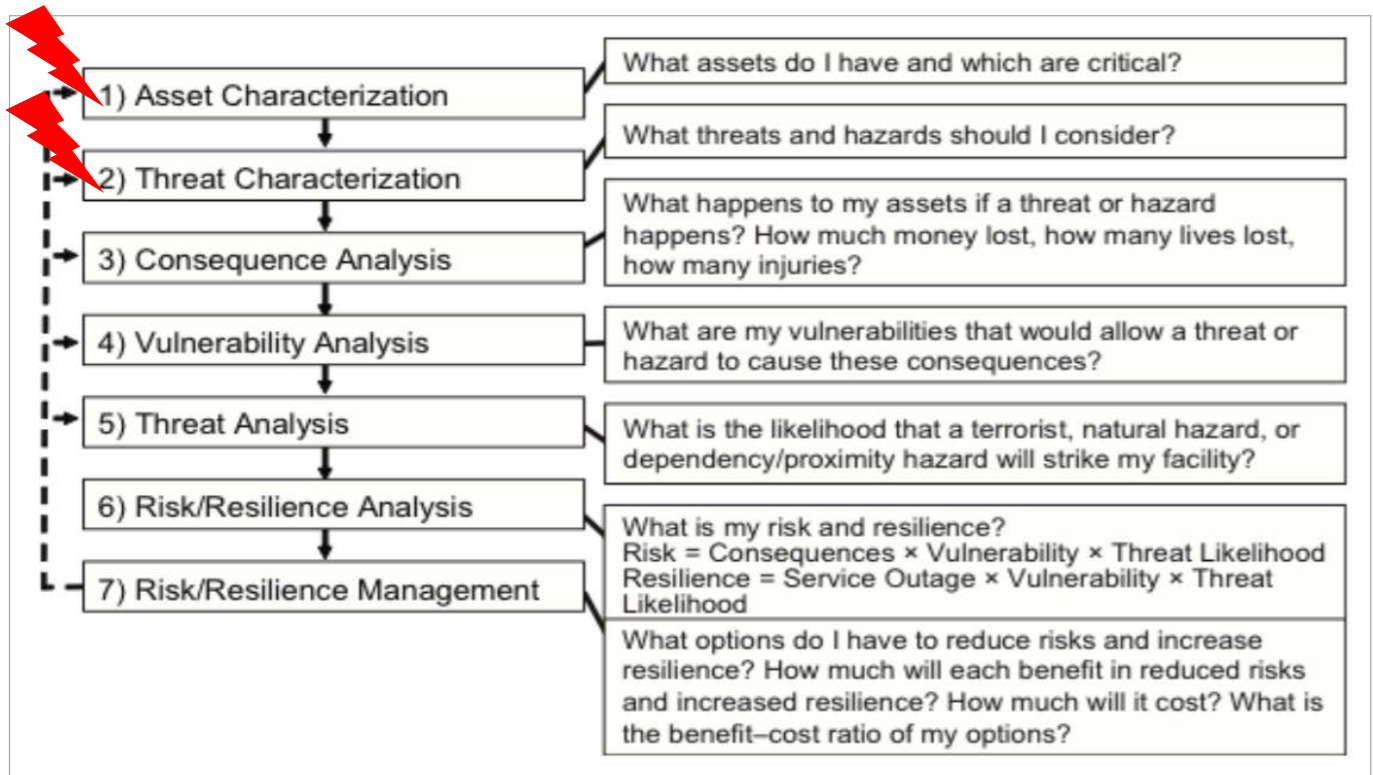
Team Selections

- Professional Assistance
- Small Core Risk and Resiliency Project management team.
- AWWA RRA Certification for project manager.
- Identified our Information-holders team.
 - Multiple divisions
 - Multiple levels within management
 - Multiple prospective.

Training & Workshops

- TRWD for Raw Water Source 9/5
- Project Kick-off- Meeting- 10/1
 - Define Our Mission- Identify what is failure
 - Background information- previous vulnerability assessments
 - Product-Worksheet
- 2 Day Workshop- All Information Holders 10/31- 11/1
 - How to Break the system
 - Product- Threat-Asset Matrix 190 pairs
- Division Meetings
 - Closely exam Threat Asset Pairs and the Whys?

Status



Status

- The RRA draft Report will be completed and submitted to Fort Worth Water.
- Water review draft by end of February
- Finalize RRA Report by March 13. (This is when the information will be provided to the wholesale customers.)

QUESTIONS?



FORT WORTH[®] 17

Discussion

4. Development of the 2020 Water Quality Management Plan (WQMP).

➤ Timeline:

- By May 15 - Draft of WQMP completed
- By May 22 - Public Comment period begins, Documentation in newspaper
- July 1 - Public Hearing and WRC meeting
- July 1 - July 27 - Address comments from public
- July 28 - Deadline to submit draft to TCEQ
- July 28 - August 11 - Address comments from TCEQ
- August 27 - NCTCOG's Executive Board to approve
- August 30 - Final WQMP due to TCEQ

Discussion

4. Development of the 2020 Water Quality Management Plan (WQMP).

- Data that needs to be updated:
 - Population estimates
 - Include NCTCOG's 2020 estimates
 - Impaired water bodies
 - Update with data from 2016 Integrated Report
 - Sanitary Sewer Overflow data
 - Watershed Protection Plans (WPP) in region
 - Add Joe Pool Lake and Rowlett Creek
 - CWSRF applications reviewed
- Comments/questions?

Discussion

4. Development of the 2020 Water Quality Management Plan (WQMP).

- Proposed changes to 2020 WQMP
 - Not include DMR data in Appendix C
 - Last year to include TPDES permit data in Appendix B. Next year to begin mapping locations of On-Site Sewage Facilities in region
 - Transition from developing document and focus efforts on creating WQMP as an online, more user-friendly mapping tool.
- Comments/questions

Discussion

5. Update on Water for North Texas Resource Library.

- Advisory Group met on November 20, 2019.
- Framework due to TCEQ on May 4, 2020.

Water Supply	Water Conservation	Water Quality
Lake Levels	Smartscape	Water Treatment
Stormwater	Rainwater Harvesting	OSSFs
Emergency Water Issues	Residential Water Efficiency	Pet Waste
		Litter
		Bacteria
		Fats, Oils, and Greases
		Green Infrastructure

Discussion

6. Topics for Workshops/Webinars and Annual Watershed Stakeholder Meeting.

- Stakeholder meeting - March 19, 2020, 9:30 a.m. at NCTCOG's William Pitstick Conference Room
- Topic ideas for both the Stakeholder meeting and the workshops/webinars:
 - Environmental Protection Agency to discuss PFAs?
 - TCEQ to discuss 319 non-point source funding?
 - More ideas?

Other Business and Roundtable Discussion

7. NCTCOG Updates.

- NCTCOG Webinar - Tuesday, January 28, 2020 at 1:00 p.m.

“Managing Overabundant Wildlife to Protect Water Quality of the Dry Comal Creek and Comal River, New Braunfels, Texas.”

<https://www.addevent.com/event/gp4139771>

8. Future Agenda Items.

- Suggestions for future agenda or presentation topics?

Other Business and Roundtable Discussion

9. Roundtable.

WRC members are welcome to share what is happening in their communities.

10. Schedule for the next meeting

➤ The next WRC meeting is scheduled for:

Thursday, April 30, 2020

**10:30 a.m., Centerpoint Two, First Floor
Metroplex Conference Room**

14. Adjournment.

WQMP Links

- ▶ Document
- ▶ https://www.nctcog.org/nctcog/media/Environment-and-Development/Documents/Natural%20Resources/Water%20Quality/FINAL-2019-Update-to-the-Water-Quality-Management-Plan_Aug22.pdf
- ▶ Online mapping tool
- ▶ <https://nctcoggis.maps.arcgis.com/apps/MapJournal/index.html?appid=fbcf00236dee4f518f8baff67ddf804b>

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