

Brownsville Public Utilities Board Hazard Mitigation Plan – 2022 Update

Planning Team Kick-Off Meeting | August 12, 2021

complex world CLEAR SOLUTIONS

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Agenda



- Benefits of Hazard Mitigation
- Hazard Mitigation Planning Overview
- Project Organization
- Planning Team Responsibilities
- Public and Stakeholder Outreach
- Update Hazards of Concern and Risk Assessment

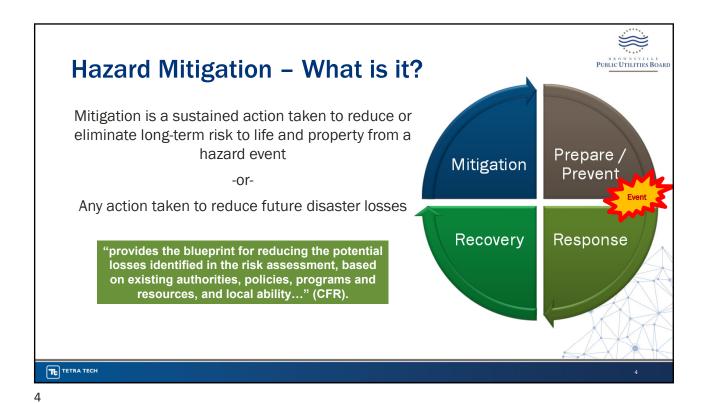
- Critical Facilities and Lifelines
- Goals and Objectives
- Schedule
- Questions/Next Steps/Wrap Up



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PUBLIC UTILITIES BOARI





Hazard Mitigation Works! PUBLIC UTILITIES BOARI Mitigation saves in every in state! Texas has saved at least \$10 billion in benefits. According to the January 2019 National Institute of Building Sciences Natural Hazard Mitigation Saves: 2018 Interim Report, federal mitigation grants save \$6 for every \$1 spent! National Benefit-Cost Ratio Per Peril Federally Funded 6:1 **Overall Hazard Benefit-Cost Ratio Riverine Flood** 7:1 **Hurricane Surge** Wind 5:1 **Earthquake** 3:1 Wildland-Urban Interface Fire 3:1 TE TETRA TECH

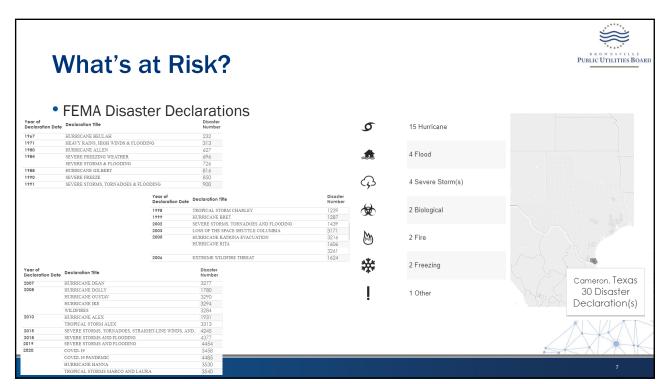
Why Update?



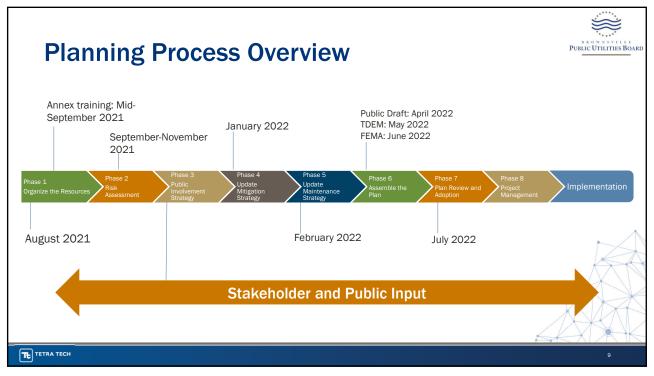
- To remain eligible for pre- and post-disaster mitigation funding, FEMA requires anyone with an approved HMP to update it every 5 years.
- Updating the plan helps us re-evaluate our risk and identify any new risks or vulnerabilities.
 - New information, data and studies are always coming in so we will use that to help us update as well (e.g., hazard maps, event history, change in population, etc.)
- The mitigation plan update will:
 - Help Brownsville prepare for and mitigate the effects of hazards
 - Continue to allow Brownsville Public Utilities Board and participating partners to be eligible for pre- and post-disaster mitigation funding
 - Support CRS participation/rating of municipalities

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Public and Stakeholder Outreach

- We are working on developing a website just for the HMP once it's up and running, we will send out to everyone
- Social Media we will provide a series of graphics and text that you can use to help us get the word out about the HMP
- Stakeholder Survey we will send this to all identified stakeholders to help us get an understanding of how they are involved in hazard mitigation
- Public Survey this will help us get input and feedback from residents in the area
- Neighboring Community Outreach
 - Notified of planning process
 - Survey



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Project Scope



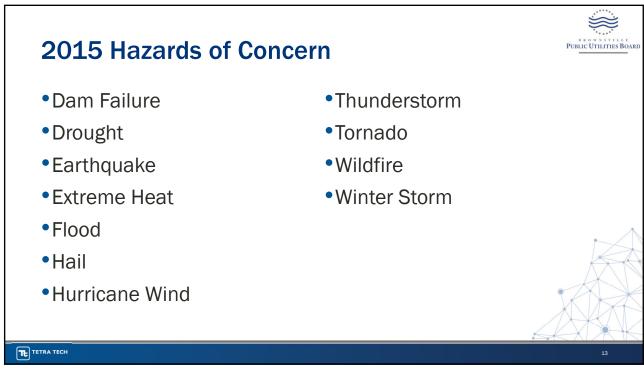
- Update the Risk Assessment what's at risk?
- Update the Capabilities Assessment what tools do you have in place that integrate hazard mitigation? What do you have available to help your community in the event of a disaster?
- Update the Mitigation Strategy review and update previous actions; develop new actions
- Update Other Sections of the HMP
- Submit the HMP for Review
- Adopt the HMP
- Implement the HMP



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PUBLIC UTILITIES BOARD **Update Risk Assessment** Update assets Examine previous impacts **COMMUNITY ASSETS NATURAL HAZARDS** Analyze risks Population Location • Review with Planning Team **RISK** Built Environment Extent (Magnitude/Strength) Risk assessment meeting – November/ **Previous Occurrences** December 2021 Future Probability TE TETRA TECH 12



Potential 2022 Hazards of Concern



- Dam and Levee Failure
- Disease Outbreak
- Drought
- Earthquake
- Erosion (coastal and inland)
- Extreme Heat
- Flood (riverine, coastal, flash, stormwater)

- Hail
- Hurricane/Tropical Storm
- Lightning
- Thunderstorm Wind
- Tornado
- Wildfire
- Winter Storm











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Community Lifelines



- Review 2015 critical facility inventory to ensure complete
- Crosswalk and identify lifelines

Lifelines provide indispensable service that enables the continuous operation of critical business and government functions, and is critical to human health and safety, or economic security

Critical Facilities are those facilities considered critical to the health and welfare of the population and that are especially important following a hazard. As defined for this HMP, critical facilities include essential facilities, transportation systems, lifeline utility systems, high-potential loss facilities, and hazardous material facilities.

Essential facilities are a subset of critical facilities that include those facilities that are important to ensure a full recovery following the occurrence of a hazard event. This category is usually defined to include police, fire, EMS, schools/colleges, shelters, senior facilities, and medical facilities.



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Community Lifelines

BROWNSVILLE
PUBLIC UTILITIES BOARD

- To be reviewed:
 - 911 Centers
 - Airport
 - Bridges
 - Churches
 - Communication Towers
 - Community Services
 - Detention Centers
 - Emergency Operation Centers
 - Evacuation Routes
 - Fire Stations
 - Government Buildings
 - Heliports
 - Hospitals

- Nursing Homes
- Parks
- Police Stations
- Ports
- Public Works
- Pump Stations
- Schools
- Shelters
- Utilities
- Wastewater Treatment Facilities
- Water District Facilities
- Any suggestions?





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Community Lifelines



- What additional facilities and lifelines should we add? Types to consider:
 - Utility locations substations, pump stations, treatment plants
 - Critical food establishments food pantries, grocery stores, senior nutrition
 - COVID-19 locations testing and vaccination sites
 - Others?















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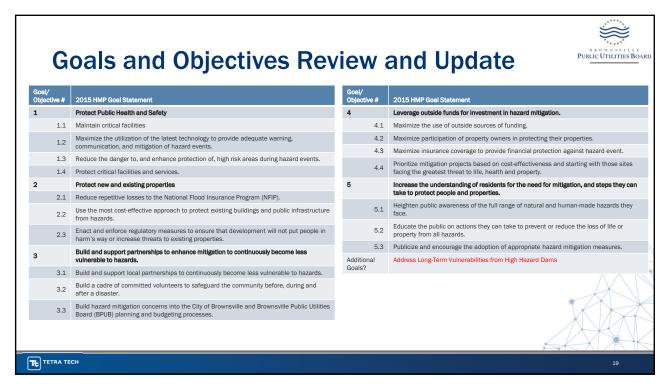
Mitigation Strategy

- Review and update the goals and objectives from the last plan
 - What outcomes do you want to achieve?
 - Should we include new goals?
- Determine the status of previous mitigation actions
- Identify new mitigation actions/projects
 - What specific actions will be taken to reduce risk from hazards?
 - Focus on specific, implementable and achievable actions!
- Action Plan
 - How will the actions be prioritized and implemented?



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Update Other Sections of the HMP



- Community Profile
 - Taking the previous profile from the last plan and updating it accordingly
- Planning Process
 - Documentation of the update process
- Plan Maintenance
 - Incorporation into other plans as well as identifying way to incorporate other plans into the updated HMP
 - Identify a game plan for annually reviewing and updating the HMP



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Submit the HMP for Review



- Review Draft with Planning Team
- 14-day Public Comment Period
- Conduct Public Meeting to Review the Draft
- Submit for Texas Division of Emergency Management (TDEM) Review
 - 14 to 28 days
- Submit for Federal Emergency Management Agency (FEMA) Review
 - 45 days
- "Approvable Pending Adoption" Status



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Adopt the HMP



- Brownsville Public Utilities Board and the City of Brownsville need to adopt the HMP
- Once FEMA approves the plan, adoption can begin
- Adoption deadline July 2022

Implement the HMP

- Regular Planning Team meetings
- Implement mitigation actions and projects
 - Integrate actions in other areas of your community where appropriate



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Schedule



- Planning Process
 - Planning Team Kick-Off TODAY!
 - Annex Training mid-September
- Update Risk Assessment
 - Data collection is underway
 - Begin vulnerability assessment
 - Planning Team Risk Assessment Meeting: November 2021 to confirm hazard ranking and finalize goals
- Public Involvement Strategy ongoing throughout the planning process



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Schedule



- Mitigation Strategy
 - Begin working with the Utilities Board and City in the next two weeks stay tuned for emails
 - Mitigation Strategy Workshop February 2022
- Draft Plan to Planning Team in March 2022 (as sections are ready)
- Public Review Period (14 days) April 2022
- Final draft plan to TDEM by May 2022 and FEMA by June 2022



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Next Steps



- Take online survey to update goals to be distributed via email
- Take online survey to determine Hazards of Concern to include in the HMP
- Review Hazard Profiles
- Review Risk Assessment Results
- Identify Problems and Problem Areas; develop Mitigation Strategy
- Review Draft Plan
- Submit Draft Plan for TDEM/FEMA Review
- Adopt FEMA-Approved Plan
- Implement Projects and Maintain the Plan



Increase Resilience!





