LOWER RIO GRANDE REGIONAL FLOOD PLANNING GROUP MEETING

Agenda Item 7 – Technical Consultant Update

November 16, 2022





AGENDA

Discussion and Update on:

- □ Approval of FMEs to be studied further for possible inclusion as an FMP (Task 12)
- ☐ Review of comments received on Draft Regional Flood Plan
- □ Update to Chapter 7



TASK 12 PERFORM IDENTIFIED FMES, IDENTIFY, EVALUATE, AND RECOMMEND ADDITIONAL FMPS



T/A

TASK 12 - PERFORM FMEs FOR ADDITIONAL FMPs TWDB Requirements

Objective:

- ☐ "Perform" identified FMEs to recommended additional FMPs
 - Evaluate flood risks in areas with limited data
 - Evaluate flood risk reduction solutions
 - Preliminary engineering

Requirement:

- ☐ RFPG must approve list of FMEs to be performed
 - Additional FMPs to be evaluated and recommended
- Must adhere to Task 4B/5 requirements
- ☐ Revise and re-submit relevant data deliverables and RFP chapters
- ☐ Results/recommendations to be included in the Amended Regional Flood Plan
 - ☐ due July 14, 2023





TASK 12 - PERFORM FMEs FOR ADDITIONAL FMPs

Considerations for FME Selection

Criteria for considering FME for further analysis

- ☐ H&H models available
 - analysis of potential adverse impact
- ☐ Structures and population at risk
- ☐ Low-water-crossings on thoroughfare or near critical facility
- ☐ Critical facilities at risk
- ☐ Level-of-effort to perform FME possible with available budget and time
- Sponsor concurrence





TASK 12 – PERFORM FMEs FOR ADDITIONAL FMPs Scope of Work for FMEs Selected

Potential Scope of Work

- Data Collection
 - Site visits
 - Survey
- ☐ Update hydrologic and hydraulic modeling
 - ☐ Atlas 14 rainfall, LiDAR
- Update alternatives analysis
- ☐ Verify no adverse impacts
- Evaluate potential constraints
- Update cost estimates
- ☐ Conduct cost-benefit analysis

- □ Perform FMP evaluation with RFPG
 - □ Financial Survey
- □ Prepare documentation for inclusion in Amended RFP



Preliminary List of FMEs Approved by RFPG

FME ID Number	FME Title	County	Sponsor	ВСА	Effort
151000064	Weslaco Stormwater Improvement Plan - Pleasantview Drive and 11th Street	Hidalgo	City of Weslaco	0.5	Need BCR for 1% ACE; no negative impacts
151000065	Weslaco Stormwater Improvement Plan - Mile 10 N and Mile 5 $\frac{1}{2}$ W	Hidalgo	City of Weslaco	0.4	no negative impacts
151000066	Weslaco Stormwater Improvement Plan - South International Boulevard and Business 83	Hidalgo	City of Weslaco	15.7	Need BCR for 1% ACE; no negative impacts
151000067	Weslaco Stormwater Improvement Plan - Texas Boulevard to Airport Drive, South of Business 83	Hidalgo	City of Weslaco	0.3	no negative impacts
151000068	Weslaco Stormwater Improvement Plan - West Weslaco	Hidalgo	City of Weslaco	1.0	Need BCR for 1% ACE
151000069	Weslaco Stormwater Improvement Plan - Westgate Drive and Sugar Cane Drive	Hidalgo	City of Weslaco	0.3	no negative impacts



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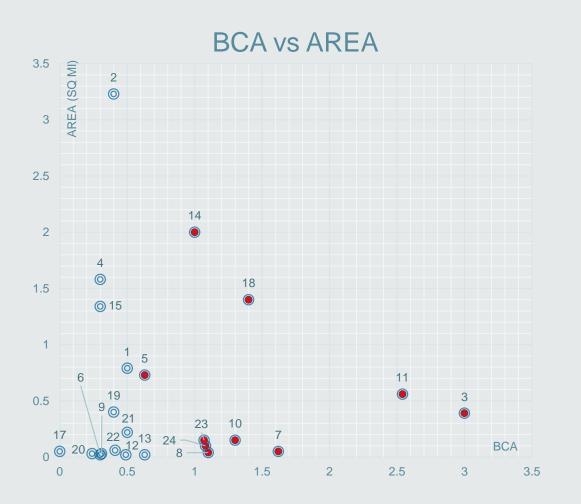
FME ID Number	FME Title	County	Sponsor	ВСА	Effort
151000071	Precinct 4 MDP - Risk Area A at Mile 8.5 Rd. & Ware Rd.	Hidalgo	Hidalgo County Precinct 4	1.74	no negative impacts
151000072	Precinct 4 MDP - Risk Area B at Mile 6 & North Ware Rd.	Hidalgo	Hidalgo County Precinct 4	1.3	no negative impacts
151000073	Precinct 4 MDP - Risk Area C at FM 2812 & FM 493	Hidalgo	Hidalgo County Precinct 4	0.4	no negative impacts
151000074	Precinct 4 MDP - Risk Area D at S. McColl & Canton Rd.	Hidalgo	Hidalgo County Precinct 4	1.4	no negative impacts
151000076	Precinct 4 MDP - Risk Area F at Texas Rd. & Cesar Chavez Rd.	Hidalgo	Hidalgo County Precinct 4	2.54	no negative impacts
151000077	Precinct 4 MDP - Risk Area G at Hoehn Rd. & Mile 11 Rd.	Hidalgo	Hidalgo County Precinct 4	0.5	no negative impacts
151000078	Precinct 4 MDP - Risk Area I at Sharp Rd. & E Monte Cristo Rd	Hidalgo	Hidalgo County Precinct 4	0.63	no negative impacts
151000079	Precinct 4 MDP - Risk Area J at SH107 & FM 907	Hidalgo	Hidalgo County Precinct 4	1.07	no negative impacts

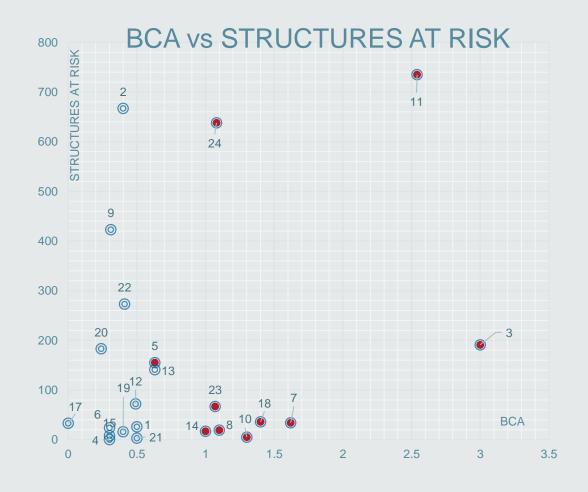


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FME ID Number	FME Title	County	Sponsor	ВСА	Effort
151000086	Risk Area 11 Rancho Escondido	Maverick	City of Eagle Pass	0.31	no negative impacts
151000087	Risk Area 12 Fox Borough Drive	Maverick	City of Eagle Pass	0	no negative impacts
151000088	Risk Area 13 Celle De Los Santos neighborhood. Additional culvert under irrigation canal.	Maverick	City of Eagle Pass	0.24	no negative impacts
151000089	Risk Area 15 Trib 3 Detention at Main Street	Maverick	City of Eagle Pass	1.62	no negative impacts
151000090	Risk Area 2 Treasure Hills	Maverick	City of Eagle Pass	0.41	no negative impacts
151000091	Risk Area 3 Arrow Point Boulevard	Maverick	City of Eagle Pass	0.3	no negative impacts
151000092	Risk Area 4 Bibb & Misty Willow storm drain	Maverick	City of Eagle Pass	0.63	no negative impacts
151000093	Risk Area 5 Debona Drive	Maverick	City of Eagle Pass	0.49	no negative impacts
151000094	Risk Area 6 Trib 2 bypass & detention at Eagle Pass High School fields	Maverick	City of Eagle Pass	1.08	no negative impacts
151000095	Risk Area 8 Tributary 2 channel widening near Alexander Drive	Maverick	City of Eagle Pass	1.1	no negative impacts









Preliminary List of FMEs with BCR > 1.0

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Recommended List of FMEs for further study for possible FMPs

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TWDB Comments

Comments received October 26, 2022

- ☐ Level 1 Comments
 - □ 12 received
 - Must be addressed to meet specific statute, rule, or contract requirement
 - ☐ Must be addressed by January 10, 2023
- ☐ Level 2 Comments
 - □ 12 received
 - Suggestions for consideration to improve readability and/or overall understanding of the regional flood plan



October 25, 2022

Jaime Salazar Operations Manager Hidalgo County Drainage District No. 1 Edinburg, TX 78542

RE: Texas Water Development Board Comments on Region 15 Lower Rio Grande RFPG's Draft

Texas Water Development Board (TWDB) staff has performed a review of the draft regional flood lexas water Development board (1 WDB) stait has performed a review of the draft regional noor plan submitted by August 1, 2022, on behalf of the Region 15 Lower Rio Grande Regional Flood

- LEVEL 1: Comments and questions that must be satisfactorily addressed to meet specific
- LEVEL 2: Comments and suggestions for consideration that may improve the readability

Please note that while Level 2 comments are provided for the planning group's consideration, Level regardeness that white Level 2 comments are provided for the plaining group 3 consideration, Level 1 comments must be addressed prior to the submission of final Regional Flood Plans by the January

It is expected that the data contained in all written report sections, tables, excel spreadsheets, and it is expected that the data contained in an written report sections, tables, exces spreamsteets, and the geodatabase will be consistent with each other. In cases where there are any discrepancies in ang geventations will be consistent will each other, in cases where there are any discrepancies in data, the geodatabase dataset will supersede other data and the TWDB will utilize the geodatabase

TWDB review of the draft regional flood plans is comprised of many spot checks of data across i vivo review or the than regional novo pians is comprised or many spot checks of that across several deliverables and is not an all-encompassing review. Please note that TWDB's review does severas senverables and is not an autencompassing review, riesse note that a video a review successor in the securacy of the entire draft regional flood plan, and the RFPG is responsible for ensuring

To facilitate efficient and timely completion, and Board approval, of your final regional flood plan, please provide your TWDB Regional Flood Planner with a draft of your response to these comments piease provide your 1 WIDD Regional Flood Flammer with a draft of your response to these committees, informally via email) on the draft RFP as soon as possible. This will allow TWDB staff to provide preiminary reedback on proposed RFO responses to assist you in meeting your AFFO'S timeline for approval and submission to TWDB of the final plan by the deadline. It will also help to uniterate for approval and suspinission to 19400 or the final peak by the deadline, it will also neep to minimize the need for subsequent follow-ups after final regional flood plan submission to TWDE.

Leading the state's efforts in ensuring a

Brooke T. Paup, Chairwoman | George B. Peylon V, Board Member Jeff Walker, Executive Administrator





Sierra Club- Lone Star Chapter Comments

Comments received September 26, 2022

☐ From:

Sonia Sams

Project Coordinator

Water Resources Branch

U.S. Army Corps of Engineers

Fort Worth, TX District

817-886-1920

□ Excel Table







Sierra Club- Lone Star Chapter Comments

Comments received October 27, 2022

- ☐ From:
 - Marty Kelly

Water Resources Program Coordinator

Office (512) 389 - 8214

Marty.Kelly@tpwd.texas.gov

☐ 6 pages



October 27, 2022

Region 15 Lower Rio Grande Regional Flood Planning Group Hidalgo County Drainage District No. 1 902 N Doolittle Road Edinburg, TX 78242

Life's better outside. Re: 2023 Lower Rio Grande Regional Flood Plan

Commissioners

Lake Jackson
Dick Scott
Vice-Chairman
Wimberley
James F

Oliver J. Bell Cleveland Paul L. Foster El Paso

Jeffery D. Hildebrand Houston bert L. "Bobby" Patton, Jr.

Fort Worth Travis B. "Blake" Rowling Dalles

> Chairman-Emeritus Fort Worth T. Dan Friedkin Chairman-Emeritus Houston

Carter P. Smith Executive Director Dear Mr. David A. Garza,

In 2019 Senate Bills 7 and 8 established a regional and state flood planning process for Texas, aimed at better managing flood risk to reduce loss of life and property. As part of the process, Texas Parks and Wildlife Department (TPWD) was identified as a member of the regional flood planning groups (Texas Water Code Sec. 16.062). The mission of ability to provide opportunities of hunting, fishing, and outdoor recreation for the use and rijoyment of present and future generations. TPWD values this opportunity to management and achieving beneficial flood mitigation outcomes. Toward this effort of the plans and representing the natural resource interests of the state.

TPWD applauds the Lower Rio Grande Regional Flood Planning Group for their efforts in abbreviated timeline. Through the exceptional efforts of the RFPC, this plan will be a event shall cause loss of life and nighty. Because this represents the initial region-wide important this plan will be a plan, it has the potential to be precedent setting for subsequent iterations. As such, it is flood risk management and promotes opportunities to protect, enhance and restore the flood mitigation benefits provided by natural landforms.

TPWD is supportive of the planning process outlined by the Texas Water Development Board (TWDB) because it aims to achieve an integrative flood risk management (FRM) approach that prioritizes risk reduction through implementation of floodplain management, land use regulations, policy, and a balanced use of grey and natural and participation at all levels of society. TPWD believes this integrative approach when excessystems while minimizing environmental impacts. Recent published works on FRM and NBS (Bridges et al 2021, Glick et al 2020, World Wildlife Fund 2016, Sayers et al resources for flood planners.

4200 SMITH SCHOOL ROAD AUSTRI, TEXAS 78744-3298 532-369-4600 WWW.tpwd.texas poor

To manage and conserve the natural and cultural resources of Texas and to provide hunting, fishing and outdoor recreation opportunities for the use and enjoyment of present and future generations.





Sierra Club- Lone Star Chapter Comments

Comments received October 31, 2022

- ☐ From:
 - □ Alex Ortiz

Water Resources Specialist

Sierra Club Lone Star Chapter

alex.ortiz@sierraclub.org

Cyrus Reed

Conservation Director

Sierra Club Lone Star Chapter

cyrus.reed@sierraclub.org

9 pages



To: Jaime Salazar, Hidalgo County Drainage District No. 1, Region 15 RFGP Sponsor Delivered via email to Jaime, salazar@hcdd1.org

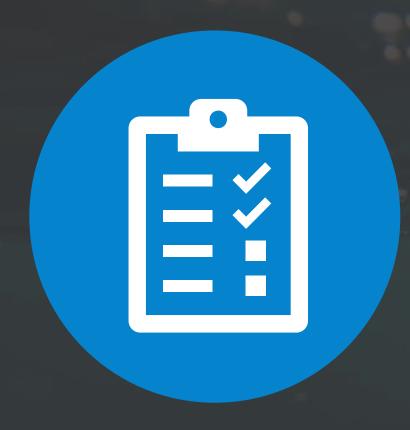
October 31st, 2022

Comments on Region 15 Regional Flood Planning Group

The Lone Star Chapter of the Sierra Club is pleased to offer these brief comments on the proposed Lower Rio Grande Valley Region 15 Regional Flood Plan. We are generally supportive of the plan, though we believe it could be strengthened with some additional attention to the need to incorporate open space-green infrastructure, adopt minimum floodplain regulations, consider improved enforcement, implementation of modern building codes, and focused legislative recommendations. We would also note that the plan ignores how to address the impacts of border security infrastructure on current and future flooding.

Stretching from West Texas and the Pecos River to the Confluence of the Conchos River in Mexico with the Rio Grande, to the Lower Rio Grande Valley proper, Region 15 is a "thin" stretch of generally arid lands, but that can be subject to flash flooding from upstream events, as well as Gulf hurricanes and tropical storms. Climate change and extremes are making this situation worse. Combined with a general urbanization of the landscape as farming land is converted to subdivisions, as well as recent efforts by the federal government (and state government in certain cases) to increase border securitization (often to the detriment of open space/native habitats) through the use of fences, walls, and other structures, flooding can be severe and deadly. Indeed, the plan finds that over 50,000 acres of cropland and 100,000 acres of rangeland have been converted from 1997 to 2017, in general to serve the growing population through urbanization and more rural subdivisions. Indeed, despite its rural nature, Region 15 is





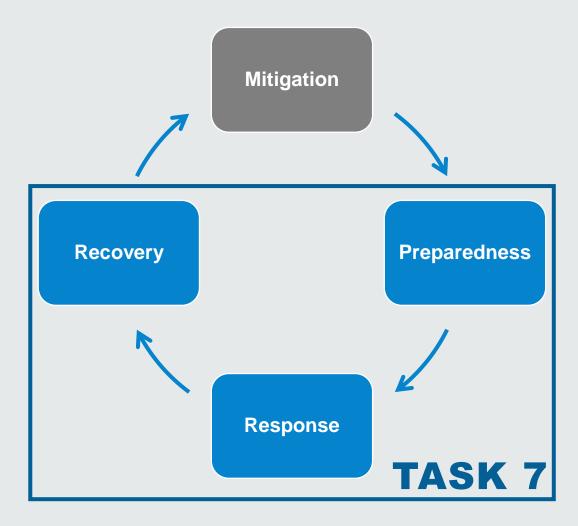
TASK 7 FLOOD RESPONSE INFORMATION AND ACTIVITIES





TASK 7 – FLOOD RESPONSE INFORMATION AND ACTIVITIES

- ☐ The focus of Task 7 is on the preparedness, response and recovery aspects of Flood Hazard Management.
 - ☐ What communities do immediately before, during, and after a storm to resume daily lives
- □ Format
 - □ Summary of Flood Hazard Planning in the region
 - ☐ Summary of the three categories of activities that are common to multiple jurisdictions







TASK 7 - PREPAREDNESS ACTIVITIES

From Hazard Mitigation Action Plans (HMAPs)

- **☐** Preparedness Activities
 - □ Early Warning Systems
 - ☐ Education on Suggested Response Activities
 - □ Procurement of Emergency Response Equipment

WARNING

A warning is issued when a hazardous weather or hydrologic event is occurring, imminent or likely. A jarning means weather conditions pose a threat to life or property. People in the path of the storm need to take protective action.

WATCH

A watch is used when the **risk of a hazardous weather or hydrologic event has increased significantly**, but its occurrence, location or timing is **still uncertain**. A watch means that hazardous weather is possible. People should **have a plan of action** in case a storm threatens and they should listen for later information and possible warnings especially when planning travel or outdoor activities.

ADVISORY

An advisory is issued when a hazardous weather or hydrologic event is **occurring, imminent or likely.**Advisories are for less **serious conditions than warnings**, that cause significant inconvenience and if cautio
is not exercised, could lead to situations that may threaten life or property.

OUTLOOK

An outlook is issued when a hazardous weather or hydrologic event is **possible** in the next week. Outlook are intended to **raise awareness** of the potential for significant weather that could lead to situations that may threaten life or property.







TASK 7 – RESPONSE ACTIVITIES

From Hazard Mitigation Action Plans (HMAPs)

- **☐** Response Activities
 - Distribution of Emergency Supplies
 - Sandbags
 - □ Deployment of Emergency Response Equipment and Activities
 - Rescue
 - Debris Removal
 - Mobile Pumps



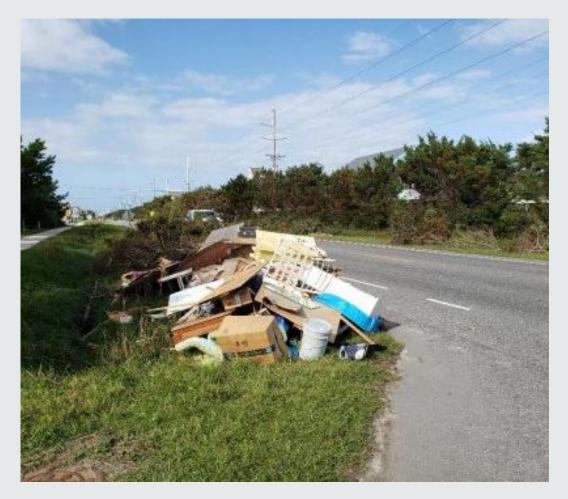




TASK 7 - RECOVERY ACTIVITIES

From Hazard Mitigation Action Plans (HMAPs)

- **☐** Recovery Activities
 - Restoration of Utilities
 - ☐ Removal of Excess Debris
 - ☐ Continued use of Response Equipment
 - Documentation of activities for future mitigation efforts







TASK 7 - RECOVERY ACTIVITIES

Received Comment

- ☐ "The plan does not mention non-governmental organizations involved in Disaster Response and Recovery, such as the American Red Cross"
 - ☐ The American Red Cross, and others, offers its assistance to assist communities during the preparedness, response and recovery stages of flood disasters
 - ☐ Trainings are offered to help prepare personnel for disaster response and recovery
 - □ Response and Recovery activities can be requested through the local Red Cross Chapter located in Houston, TX
 - Many of the HMAPs reviewed mentioned the Red Cross as an important partner for planning for Response and Recovery Activities



American Red Cross





GOALS FOR UPCOMING MEETINGS

Regional Flood Plan Due January 10, 2023

□ October

- □ Public Meeting(s) to accept comments on the Draft RFP
- ☐ Intake comments on RFP
- ☐ Continue with Task 11, 12 & 13

■ November

- □ Review Comments
- □ Review changes to Draft
- ☐ Continue with Task 11, 12 & 13

□ December

- □ Approve Revised Draft Regional Flood Plan
- ☐ Continue with Task 11, 12 & 13

☐ January 2023

- Submit Final RFP
- ☐ Continue with Task 11, 12 & 13

Regional Flood Plan Amendment due July 14, 2023





LOOK AHEAD



SUPPLEMENTAL WORK AUTHORIZATION

Move funding to allow for expenses for Public Meetings

Original Contract

- **\$1,195,005**
- All labor

Amended Contract

- **\$1,937,105.00**
- □ All labor

Supplemental

- ☐ Reallocate \$800.00 from Task 10
 - ☐ From services to expenses
- □ \$9,062.20 from Task 4C to Task 10
- ☐ Reallocate \$1,500.00 from Task 13
 - ☐ From services to expenses

No budget increase





WRITTEN COMMENTS WELCOMED.

