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Region 11: Guadalupe
Regional Flood Planning Executive Meeting

Wednesday, November 4, 2026
2:00pm

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Agenda

1. Call to Order / Roll Call
2. Welcome
3. Public Comments (3 minutes per person)
4. Approval of Meeting Minutes
5. RFPG Chair Updates
6. Discussion and possible action to fill the vacant voting position (Counties)
7. TWDB Updates (presentation)
8. Inter-regional (Region 10 & 12) Updates
9. Sponsor Updates
10. Technical Consultants Presentation, Discussion, and Potential Action
11. Consider date and agenda items for next meeting
12. Adjourn

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Agenda Item 1

Call to Order / Roll Call

- Individuals attending in-person
- Reminder to please sign-in

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Agenda Item 2

Welcome

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Agenda Item 3

Public general comments
(limit 3 minutes per person)

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Agenda Item 4

Approval of Meeting Minutes

- Approval of minutes from the September 8, 2026 RFPG meeting

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Meeting Minutes – September 8, 2026
Region 11 Guadalupe Regional Flood Planning Group Meeting
GBRA River Annex at 9:31 AM
GBRA River Annex (905 Nolan Street, Seguin, Texas)
Roll Call:

Voting Member	Alternate	Interest Category	Present (Yes) /Absent (No) / Alternate Present (*)
Don Durden		Agricultural	Yes
Doug Leecock		Counties	Yes
Melissa Reynolds		Electric Generating Utilities	Yes
Annalisa Peace	Bill Barker	Environmental *	Yes
Doug Sethness		Flood districts	Yes
Zach Boyer		Industries	No
Joe Ramos		Municipalities	Yes
Ken Gill		Municipalities	Yes
Kimberly Meitzen	Pamela Hodges	Public	Yes
R. Brian Perkins	Jonathan Stinson	River Authorities	Yes
Tara Bushnoe	Shelby Taber	River Authorities *	Yes
Matthew Hoyt		Small Business	No
Charlie Flatten	Ben Eldridge	Water Districts	Yes
Steven Fonville		Water Utilities	No

Non-voting Member	Alternate	Agency	Present(Yes) Absent(No) Alternate Present (*)
Sue Reilly	Beth Bendik	Texas Parks and Wildlife Department	Yes
Fernando Perez	Regan Middleton	Texas Division of Emergency Management	No
Jami McCool	Kristin Lambrecht	Texas Department of Agriculture	No
Allen Nash		Texas State Soil and Water Conservation Board	No
Kris Robles	Chris Barnett	General Land Office	No
Belle Gonzalez		Texas Water Development Board (TWDB)	Yes
Joel Klumpp		Texas Commission on Environmental Quality	No
Leah Cuddeback		Public	No
Patrick Brzorowski		GM-Lavaca-Navidad	No

Quorum:
Quorum: **Yes**
Number of voting members or alternates representing voting members present:11
Number required for quorum per current voting positions of 14: 8

Other Meeting Attendees:
Jonathan Stinson, GBRA (Deputy GM)
Sharon Warren, GBRA (Paralegal)
Leigh Crettenden, GBRA (IT)
Alicia Reinmund-Martinez (ICF)
Jay Scanlon (Freese & Nichols)
Katherine Smith (Freese & Nichols)

See sign-in sheets attached for additional attendees.

All meeting materials are available for the public at: http://www.guadalupeRFPG.org

AGENDA ITEM NO. 1: Call to Order

Vice-Chair Meitzen called the meeting to order at 9:30 a.m. Sharon Warren called the roll of the planning group members to record attendance, and a quorum was established.

AGENDA ITEM NO. 2: Welcome

Vice-Chair Meitzen welcomed members and guests to the meeting.

AGENDA ITEM NO. 3: Approval of minutes from the July 14, 2026, Region 11 RFPG Meeting.

Vice-Chair Meitzen opened the discussion on approving the minutes from the July 14, 2026 Region 11 RFPG Meeting.

A motion was made by Brian Perkins, seconded by Charlie Flatten, to approve the July 14, 2026, Region 11 RFPG meeting minutes. The motion carried.

AGENDA ITEM NO. 4: Region 11 Guadalupe RFPG Chair Updates

No updates were given by the Vice-Chair.

AGENDA ITEM NO. 5: Discussion and possible action to fill the vacant voting position (Counties

The vacant County voting position received two nominations. (Commissioner Morgan Hammer - Hays County and Commissioner Andra Wisian-Kendall County). A motion was made by Doug Leecock, and seconded by Charlie Flatten, to appoint Commissioner Hammer to the County position. The floor was opened for discussion on Commissioner Morgan Hammer for the position. After discussion, the Motion was withdrawn. A motion was made by Melissa Reynolds, seconded by Doug Leecock, to open the floor to discussion of both candidates for the vacant County position. The floor was opened for discussion on Commissioner Morgan Hammer and Commissioner Andra

Wisian. A motion was made by Melissa Reynolds, seconded by Annalisa Peace, to send this matter to the Executive Committee to interview each candidate. The motion carried.

AGENDA ITEM NO. 6: Discussion and possible action to elect a new Chair

A Motion was made by Don Durden and seconded by Annalisa Peace to nominate Kimberly Meitzen for the vacant Chair position. The Motion carried.

AGENDA ITEM NO. 7: Discussion and possible action to elect a new member of the Executive Committee

A Motion was made by Brian Perkins, seconded by Don Durden, to nominate Doug Leecock for the position of Vice-Chair. The Motion carried.

AGENDA ITEM NO. 8: Texas Water Development Board (TWDB) Updates

Chair Meitzen called on Belle Gonzalez for updates:

- Task 5B items for March and April deliverables are currently under review, but are anticipated to be completed soon.
- Flood planning data team previously provided a script for performing a preliminary check of the geo database for regional flood planning groups to use before the issuance of the tech memo.

AGENDA ITEM NO. 9: Inter-regional updates on Region 10 & Region 12

Chair called on Annalisa Pease to provide an update on Region 12 - They are on the same track as Region 11. She also discussed the need for regional flood planning groups and local governments to utilize these rainfall runoff atlas maps regarding stormwater and the needed state appropriations for this project.

Charlie Flatten stated Region 10 is in the same planning stages as Region 11.

AGENDA ITEM NO. 10: Guadalupe Region 11 RFPG Sponsor Guadalupe-Blanco River Authority (GBRA) Updates

No updates were provided by GBRA.

AGENDA ITEM NO. 11: Discussion and potential action regarding administrative expenses to be submitted to the Texas Water Development Board for reimbursement

Brian Perkins presented the administrative expenses for presentation to TWDB for reimbursement for GBRA and the technical consultant, totaling $2806.35 for May 1, 2026, to August 31, 2026. A motion was made by Tara Bushnoe and seconded by Doug Leecock to

approve the submittal of administrative expenses of GBRA for TWDB reimbursement. The motion carried.

AGENDA ITEM NO. 12: Region 11 RFPG Technical Consultants Presentation and Discussion

a. Discussion and possible action related to Task 5a: Recommendation of Flood Management Evaluations (new FMEs for the 2028 Regional Flood Plan)
-Jay Scanlon of Freese & Nichols discussed the recommended FME's from 2023 that are being collected during Cycle 2 for the 2028 Regional Flood Plan. There are 99 Cycle 2 FME's added for the 2028 Regional Flood Plan, for a total of 246 FMEs.

b. Task 4C Update: FME's being performed by the Technical Consultant
-Task 4 -Chapter One contains the data that has come from previous tasks pulling flood risk data. The survey, available on the Region 11 website, has provided some additional responses to the Flood Risk Data. Kathryn Smith of Freese & Nichols provided an update on Task 4C. Freese & Nichols is also working with Kleinfelder and Shiveley on Task 4 and provided a schedule of activities from July 2026 to April 2027. They are currently working on projects in San Marcos, Wimberley, and Caldwell County, working on hydraulic modeling, making sure that Atlas 14 rainfall is incorporated, and getting the baselines set. In October, they will get into the alternative development to look at solutions.

c. Miscellaneous Chapter/Regional Flood Plan Updates
Kathryn Smith provided an update on Task 1 – planning area description, which contains information on demographics and infrastructure in the region.
Task 7 – Update on flood response information and activities utilized by communities in the region.

d. Comments Received
Task 10 – Public participation: Alicia Reinmund-Martinez of ICF- discussed comments received from July 6, 2026 to August 24, 2026. The group was also briefed on the previous planning cycle public meetings for the draft Flood Plan.

e. 2023 Public Meeting Recap (to begin discussion for 2028 Draft RFP Meeting)
Alicia Reinmund-Martinez discussed the previous planning cycle regarding dates, public meetings, and comments.

AGENDA ITEM NO. 13 -PRESENTATION:

a. Kerr Together, Kelly Hagemeier

Kelly Hagemeier is the Executive Director for Kerr Together. The Kerr Together Long-Term Recovery Group is a collaborative network coordinating long-term rebuilding, resource allocation, and disaster relief for Kerr County and Comfort, Texas, following the severe regional flooding in July of 2025. The core services and support provided for recovery are wellness and social services, housing and rebuilding, public infrastructure, and economic recovery. Some of the highest priority needs are muck & gut/sanitation, debris removal, individual assistance, and economic recovery. Over 25,000 volunteer

hours were mobilized after the July 2025 flood. Kerr Together has nine working groups that consist of communications, government affairs, economic development, arts and culture, unmet needs, legal assistance, infrastructure, emotional and spiritual care, and housing coordination.

b. UGRA SB3 Grant Update, Tara Bushnoe

Tara Bushnoe, General Manager of Upper Guadalupe River Authority ("UGRA"), briefed the participants on the Guadalupe River flood warning system, including the implementation phases and expedited timeline, Kerry County and UGRA collaboration, project components, next steps, and Texas Senate Bill 3. Four unnamed individuals spoke regarding events on Lake Placid.

AGENDA ITEM NO. 14: Consider date and agenda items for next meeting

a. Tuesday, November 10, 2026 (9:30 a.m.)
   The next meeting has been rescheduled for Wednesday, November 4, 2026, from 2:00 p.m. to 4:30 p.m.
b. Draft Regional Flood Plan Public Meeting – discussion will take place at the November 4, 2026 meeting.

AGENDA ITEM NO. 15: Public General Comments- limit 3 minutes per person

No public comments**.**

AGENDA ITEM NO. 16: Adjourn

A motion was made by Ken Gill, seconded by Doug Sethness, to adjourn the meeting. The motion was approved, and the meeting was adjourned by consensus at 11:32 a.m.

Approved by the Region 11 Guadalupe RFPG at a meeting held on September 8, 2026.

_____

Brian Perkins, SECRETARY

_____

Kimberly Meitzen,
CHAIR

GBRA
Guadalupe-Blanco River Authority

SIGN-IN SHEET FOR REGION 11 FLOOD PLANNING GROUP
SEGUIN, TEXAS

PUBLIC ATTENDANCE

Date: September 8, 2026

Please Print

	Name	Organization	E-mail Address
1	[illegible]	ICF	alicia.reinmund-martinez@icf.com
2	David Marks	Preserve Lake Dunlap Assoc. PLDA	DKMarks827@gmail.com
3	Karen McMillen	FOLM	Karen@Karenmcmillan.com
4	Dina Don Leonard	on Lake Seguin	DandDleonard@gmail.com
5	Liz Teitz	San Antonio Express-News	Liz.teitz@express-news.net
6	Josiah Watson	Texas State University	jbowatson@gmail.com
7	Megan Flannery	Texas State University	meganflannery@txstate.edu
8	Fernando Casal	Texas State University	fjc30@txstate.edu
9	Carly Farmer	City of New Braunfels	cfarmer@newbraunfels.gov
10	Lynn Cai	Texas State University	fux14@txstate.edu

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SIGN-IN SHEET FOR REGION 11 FLOOD PLANNING GROUP
SEGUIN, TEXAS

PUBLIC ATTENDANCE

Date: September 8, 2026

Please Print

	Name	Organization	E-mail Address
11	Ben Eldredge	Heart of TX Conservancy	Ben@HeartTexas.org
12	Liz Hilsdorf	CULP	LHilsdorF@gmail.com
13	Kyle Burow	City of Kerrville	kyleburow@gmail.com
14			
15			
16			
17			
18			
19			
20			

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REGION 11 FLOOD PLANNING GROUP

Date: September 8, 2026 **Meeting Location: GBRA River Annex, 905 Nolan St. Seguin, Texas 78155**

Instructions for Speakers:
Individuals wishing to address the Board must complete this form prior to the start of the meeting. Please indicate the specific agenda item you wish to address, or note if your comments relate to a non-agenda topic.

Public comments are subject to reasonable time limitations in accordance with applicable rules and meeting procedures. By signing below, you acknowledge and agree to these limitations.

	Name	Organization	E-mail Address/Phone	Agenda Item No. or Topic	Acknowledgement of Time Limits (Initials) *
1	Joss Kenney	Texas State Uni	kenneyJoss3@gmail.com		
2	Tiara Thompson	Texas state	tct39@txstate.edu		
3	Collin Garoutte	TXST	cjg115@txstate.edu		
4	Elizabeth Kubacki	TXST	emk78@txstate.edu		
5	Brenna Eliaz	TXST	Oge8@Txstate.edu		
6	Sam Wommack	TXST	DkB147@TXstate.edu		

*Acknowledgment Statement:
By initialing above, I understand that my opportunity to speak
may be limited in duration to ensure all interested parties have a fair chance to be heard and to allow the Board to conduct its business efficiently.

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REGION 11 FLOOD PLANNING GROUP :

Date: September 8, 2026 **Meeting Location: GBRA River Annex, 905 Nolan St. Seguin, Texas 78155**

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	Name	Organization	E-mail Address/Phone	Agenda Item No. or Topic	Acknowledgement of Time Limits (Initials) *
7	Meg Skulteti	Comal County	mskulteti@comalcounty.gov		
8	Edwin Gotte	Seguin	EPGotte@GMail.com.		EG
9	Lynn Cain	Texas State University	~~lcain@txstate.edu~~		
10	Ben Ethridge	Kendall	Ben@HeartTexas.org		BE
11					
12					

*Acknowledgment Statement:
By initialing above, I understand that my opportunity to speak
may be limited in duration to ensure all interested parties have a fair chance to be heard and to allow the Board to conduct its business efficiently.

Agenda Item 5

RFPG Chair Updates

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Agenda Item 6

Discussion and possible action to fill the vacant voting position (Counties)

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Agenda Item 7

Texas Water Development Board (TWDB) Updates

- Midpoint Update: Task 5B Flood Management Evaluations for TWDB to Perform (EDGE Engineering)

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EDGE ENGINEERING

Region 11 Guadalupe Regional Flood Planning Group Meeting

UGRA Evaluation of Water and Sediment Control Facilities and Alternate FRRA

Green DeWitt Drainage District Cuero Levee Study and Alternate FRRA

TEXAS WATER DEVELOPMENT BOARD

TWDB FME Program

November 4, 2026

MEETING AGENDA

- Introductions
- FME Program Overview
- Scope, Budget, and Schedule
- Complete & Ongoing Tasks
- 50% Milestone Highlights
- Next Steps
- Questions



TEXAS WATER DEVELOPMENT BOARD

EDGE ENGINEERING

TEAM INTRODUCTIONS – UGRA FRRA



General Manager *(Primary Contact)*
Tara Bushnoe
tbushnoe@ugra.org
830-896-5445



Project Manager *(Primary Contact)*
Travis Kaatz, PE, CFM
tkaatz@civil-edge.com
512.560.6454



Technical Lead
Andrew Swynenberg, PE, CFM
aswynenberg@civil-edge.com
254.220.2401



TWDB FME Manager
Melissa Hislop, CFM
Melissa.Hislop@twdb.texas.gov
512.475.1725



TWDB Project Manager
Rahel Biratu
Rahel.Biratu@twdb.texas.gov

TEAM INTRODUCTIONS – CUERO LEVEE STUDY & FRRA



General Manager *(Primary Contact)*
David Guajardo
dguajardo@greenddd.com
361.275.9995



Project Manager *(Primary Contact)*
Travis Kaatz, PE, CFM
tkaatz@civil-edge.com
512.560.6454



Technical Lead
Connor Bishop, PE
cbishop@civil-edge.com
737.241.9527



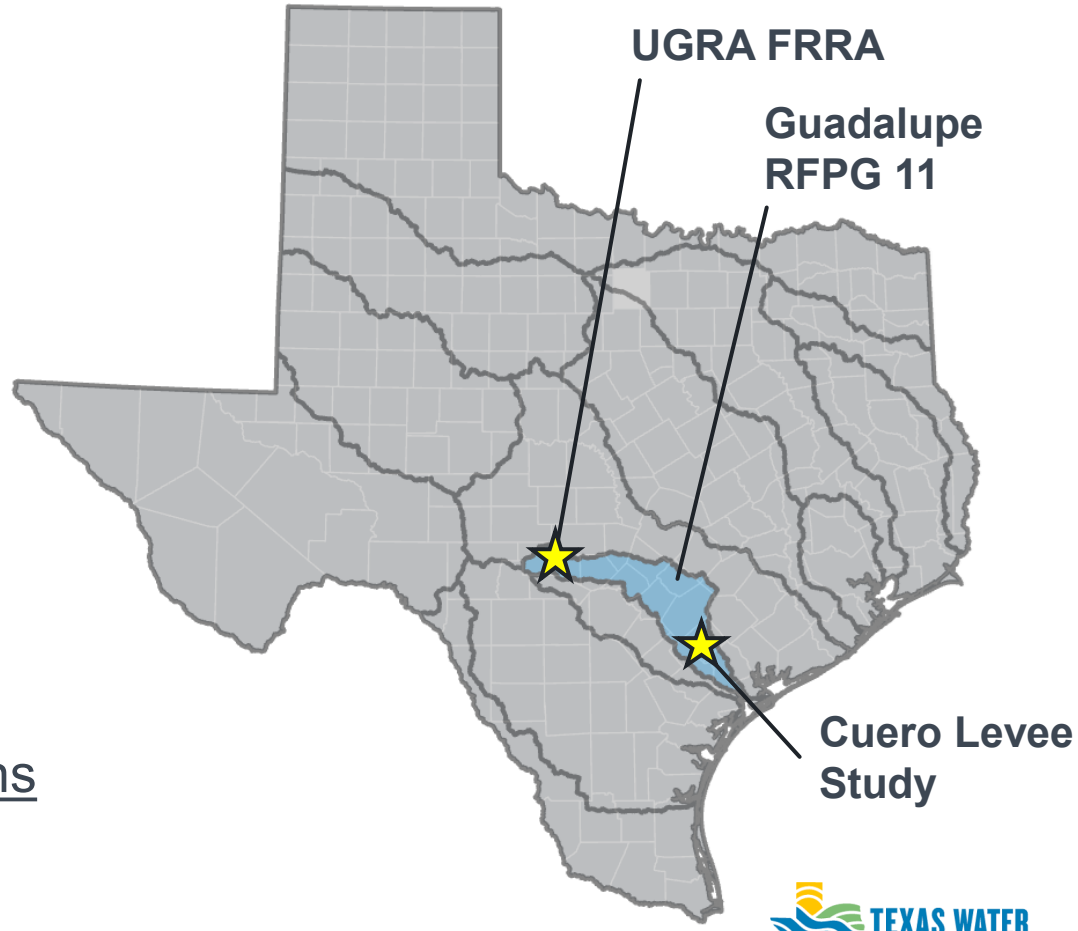
TWDB FME Manager
Melissa Hislop, CFM
Melissa.Hislop@twdb.texas.gov
512.475.1725



TWDB Project Manager
Rahel Biratu
Rahel.Biratu@twdb.texas.gov

FME PROGRAM OVERVIEW

- **Program Objective**
  - Develop practical, cost-effective flood mitigation solutions, support informed decision-making, and position small, rural communities for future project implementation and funding opportunities
- **FME Selection by RFPG (Task 5B)**
  - RFPGs identify, prioritize, and recommended eligible FMEs for TWDB contractor performance
  - UGRA Evaluation of Water and Sediment Control Facilities and Alternate Flood Risk Reduction Actions
  - Green DeWitt Drainage District Cuero Levee Study and Alternate Flood Risk Reduction Actions



TEXAS WATER DEVELOPMENT BOARD

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GENERAL SCOPE OF WORK

- Evaluate existing flood risk exposure to roads, homes, and infrastructure
- Identify and prioritize flood problem areas
- H&H analysis and alternatives analysis for priority flood problem areas
- Conceptual deign, benefit cost analysis, and RFP-ready products for FMXs
- Draft & Final Reports

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EDGE ENGINEERING

UGRA FRRA – SCOPE OF WORK

FMXs Include:

- 3 regional dams (FMP)
- 3 smaller dams (FMP)
- 4 roadway crossings (FMP)
- Identify tracts of land for preservation (FMS)
- Voluntary structure buyouts for repetitively flooded structures (FMS)

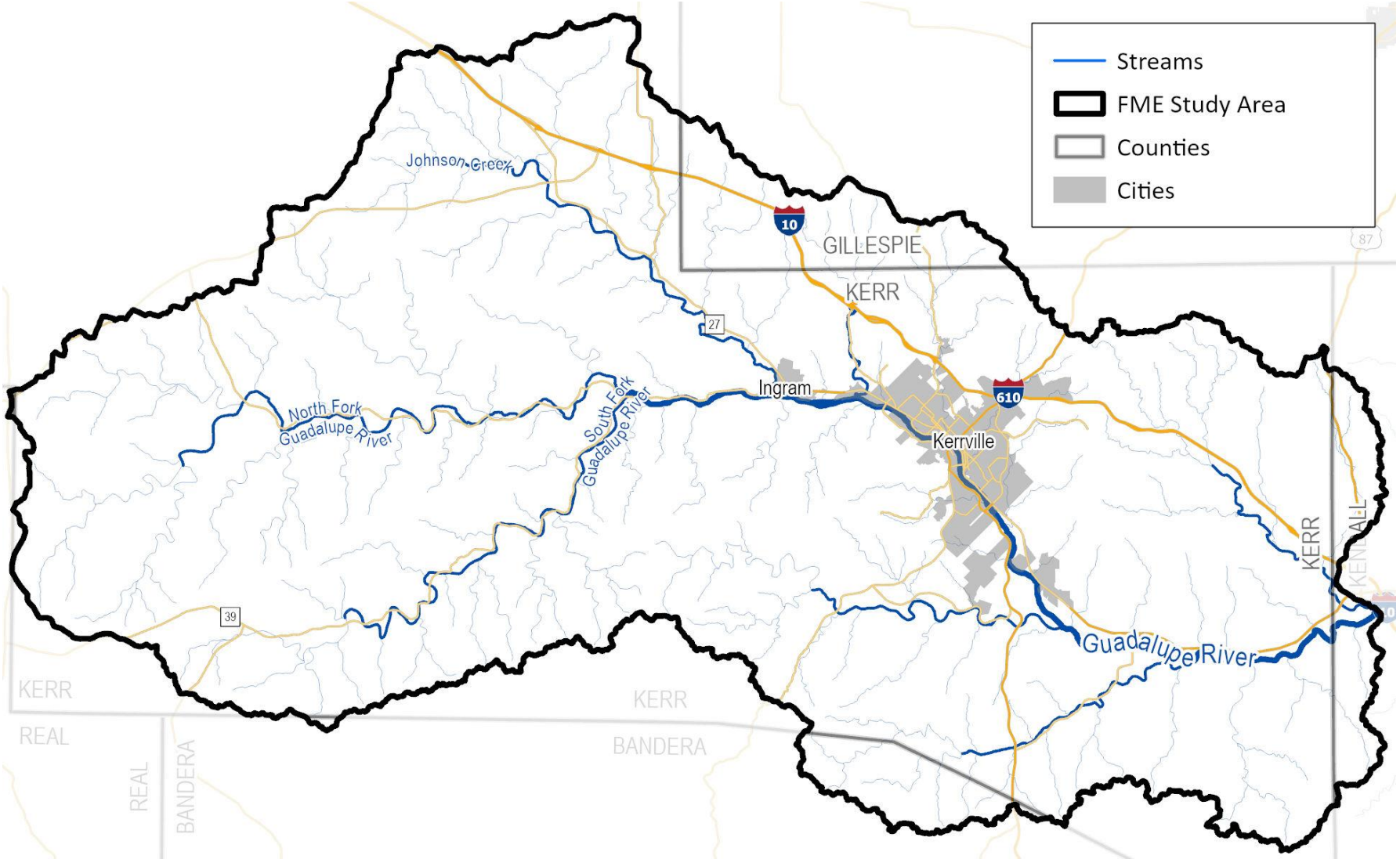
Other Scope Items

- Determine level of service for
  - SH 39 at South Fork Guadalupe River
  - FM 1340 at North Fork Guadalupe River
  - Schumacher Crossing
  - Hunt Crossing
- Evaluate the flood efficacy of UGRA's existing sediment control facilities

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EDGE ENGINEERING

UGRAA FRRA - PROJECT MAP



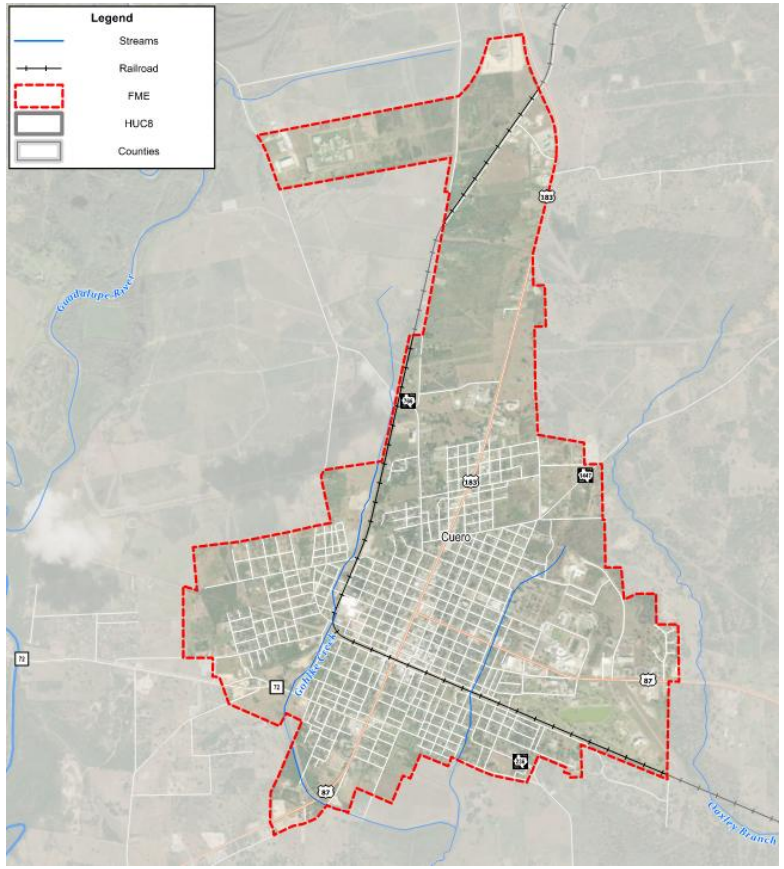
TEXAS WATER DEVELOPMENT BOARD

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CUERO LEVEE STUDY – SCOPE OF WORK

FMXs Include:

- 5 roadway crossing improvements (FMP)
- 1 levee base alignment and 4 alternative alignments (FMP)



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BUDGET

TASK	DESCRIPTION	UGRA FRRA	Cuero Levee Study
1	PROJECT MANAGEMENT	$42,000	$38,000
2	DATA COLLECTION & REVIEW	$24,000	$26,000
3	SURVEY/FIELD WORK	$60,000	$50,000
4	COORDINATION WITH RFPGS & OVERLAPPING PROJECTS	$16,000	$15,000
5	SCREENING ASSESSMENT & IDENTIFICATION OF FLOOD PROBLEMS	$40,000	$39,000
6	DETAILED H&H ANALYSIS	$78,000	$75,000
7	ALTERNATIVES ANALYSIS	$114,000	$69,000
8	COMMUNITY OUTREACH	$16,000	$15,000
9	QUALITY CONTROL	$19,000	$19,000
10	REPORTING	$59,000	$57,000
TOTAL BUDGET ESTIMATE		**$468,000**	**$403,000**

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SCHEDULE

	Key Milestone	Description	Date
✓	Community Field Visit	Following data collection and review	August 14, 2026
✓	50% Milestone	Draft alternative FMXs identified	September 5, 2026 (GDDD) September 19, 2026 (UGRA)
→	**Public Meeting**	**Present FMXs and solicit feedback**	**October 21, 2026 (UGRA)** **October 27, 2026 (GDDD)**
	90% Milestone	Draft Report with OPCC & BCR	February 19, 2027
	100% Milestone	Final Report	April 19, 2027

COMPLETED & ONGOING TASKS

- **Task 1 – Project Management and Meetings**
  - Project Coordination, Invoicing, Progress Reporting
- **Tasks 2 – Data Collection & Review**
  - **Substantially complete**
- **Task 3 – Survey / Field Work**
  - **Field work complete**
  - Survey scheduled for mid-November
- **Task 4 – Coordination with RFPGs and Overlapping Projects**

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COMPLETED & ONGOING TASKS

- Task 5 – Screening Assessment & Identification of Flood Problems
  - Substantially complete
- **Task 6 – Detailed H&H Analysis**
  - Review of existing models and as-built drawings
  - Model truncation and validation
  - 2D Mesh refinement
  - Structure modeling
- **Task 7 – Alternatives Analysis**
  - Begin early November

COMPLETED & ONGOING TASKS

- **Task 8 – Community Outreach**
  - Public meetings held 10/21 (UGRA) and 10/27 (Cuero)
- **Tasks 9 – Quality Control**
  - Ongoing
- **Task 10 – Reporting**
  - Ongoing

50% REPORT HIGHLIGHTS

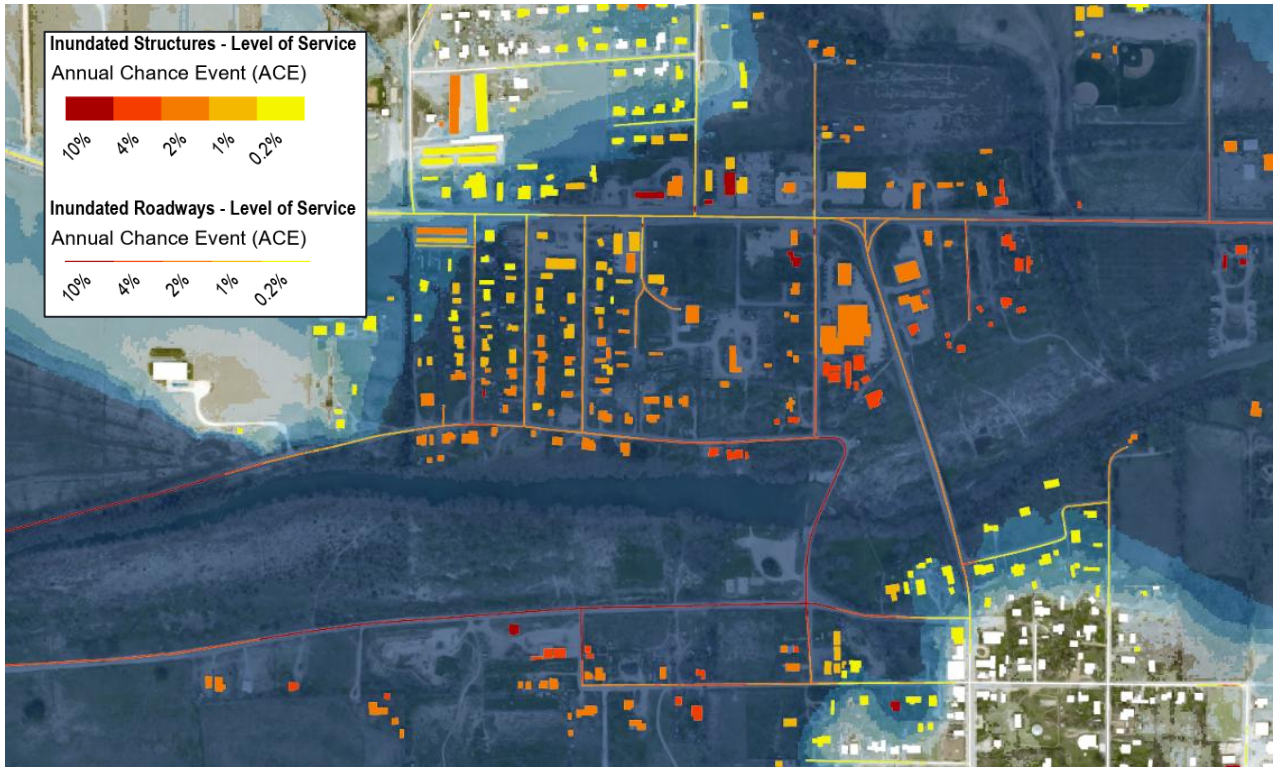
- Data Collection and Coordination
- Flood Problem Area Identification
- FMX Identification

DATA COLLECTION AND COORDINATION

- Data Collection
  - Existing H&H modeling data
  - Terrain and land cover
  - Built environment (buildings, roads), plans, as-builts
  - Precipitation and gage data
  - Many others
- UGRA Coordination
  - Technical coordination with other ongoing efforts (SB5, FWS)
- Cuero Coordination
  - GLO River Basin Flood Study
  - FEMA Gohlke Creek Study

UGRA - FLOOD PROBLEM AREAS

- Previously identified areas
- Exposure analysis
- Criteria and scoring
  - Developed in coordination with UGRA
  - TWDB FMP criteria + community experience
- Concurrence from UGRA

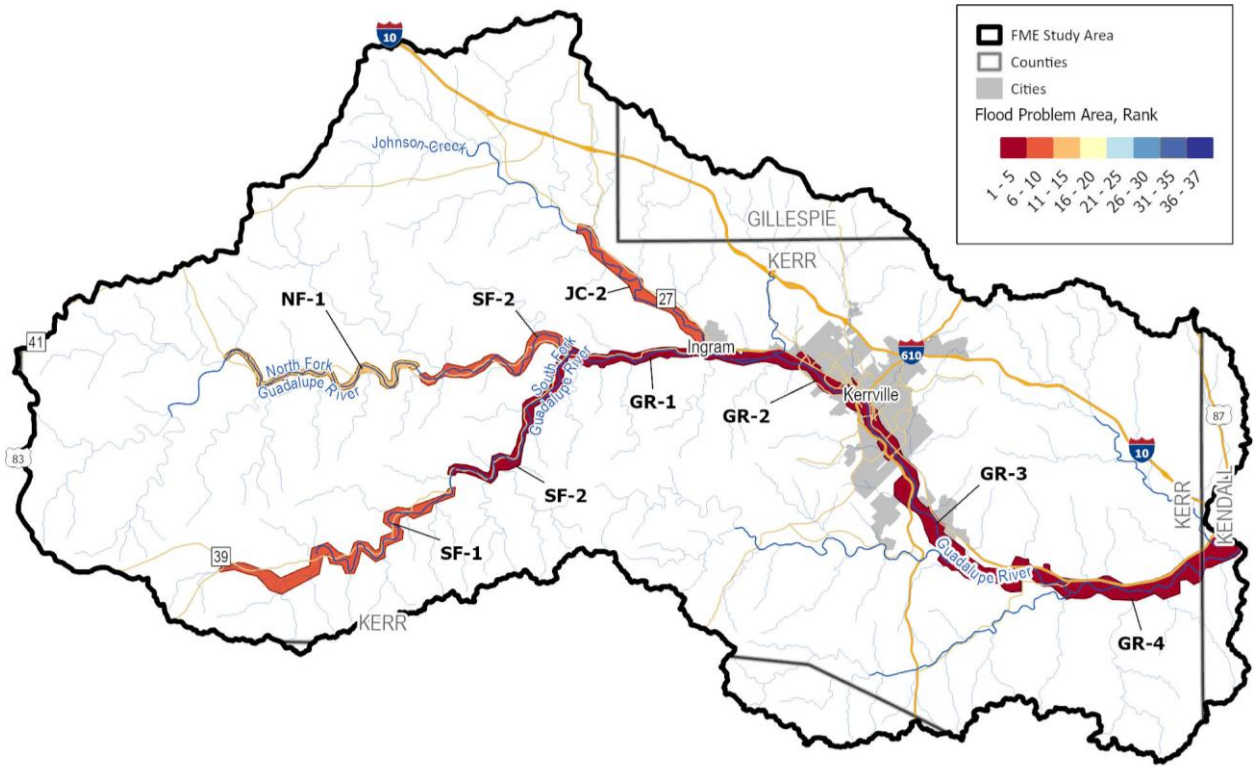


TEXAS WATER DEVELOPMENT BOARD

EDGE ENGINEERING

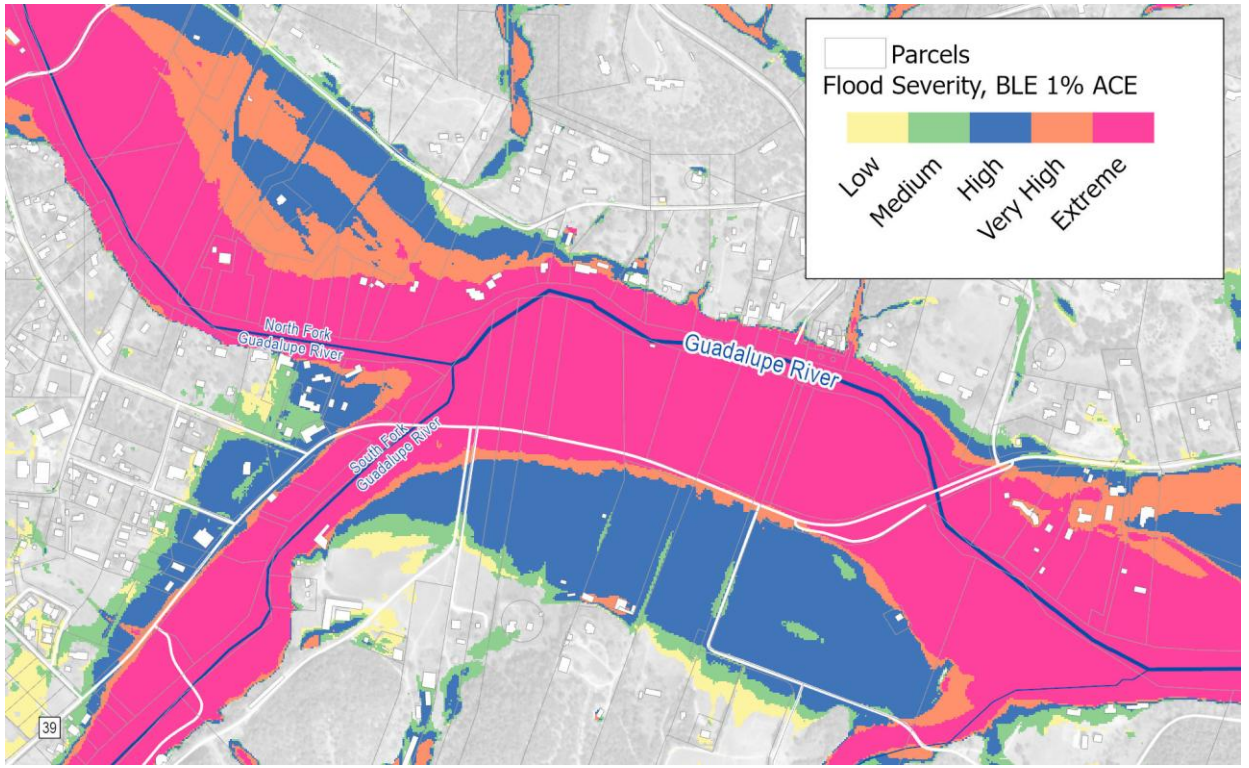
UGRA - FLOOD PROBLEM AREAS

- Identified **37** flood problem areas
- **9** priority problem areas along North Fork, South Fork, Johnson Creek, Guadalupe River
  - Life loss
  - Most hazardous reaches
  - High ranking based on criteria
- Preliminary Performance Targets
  - 500yr → 25yr or 50yr (depending on location)



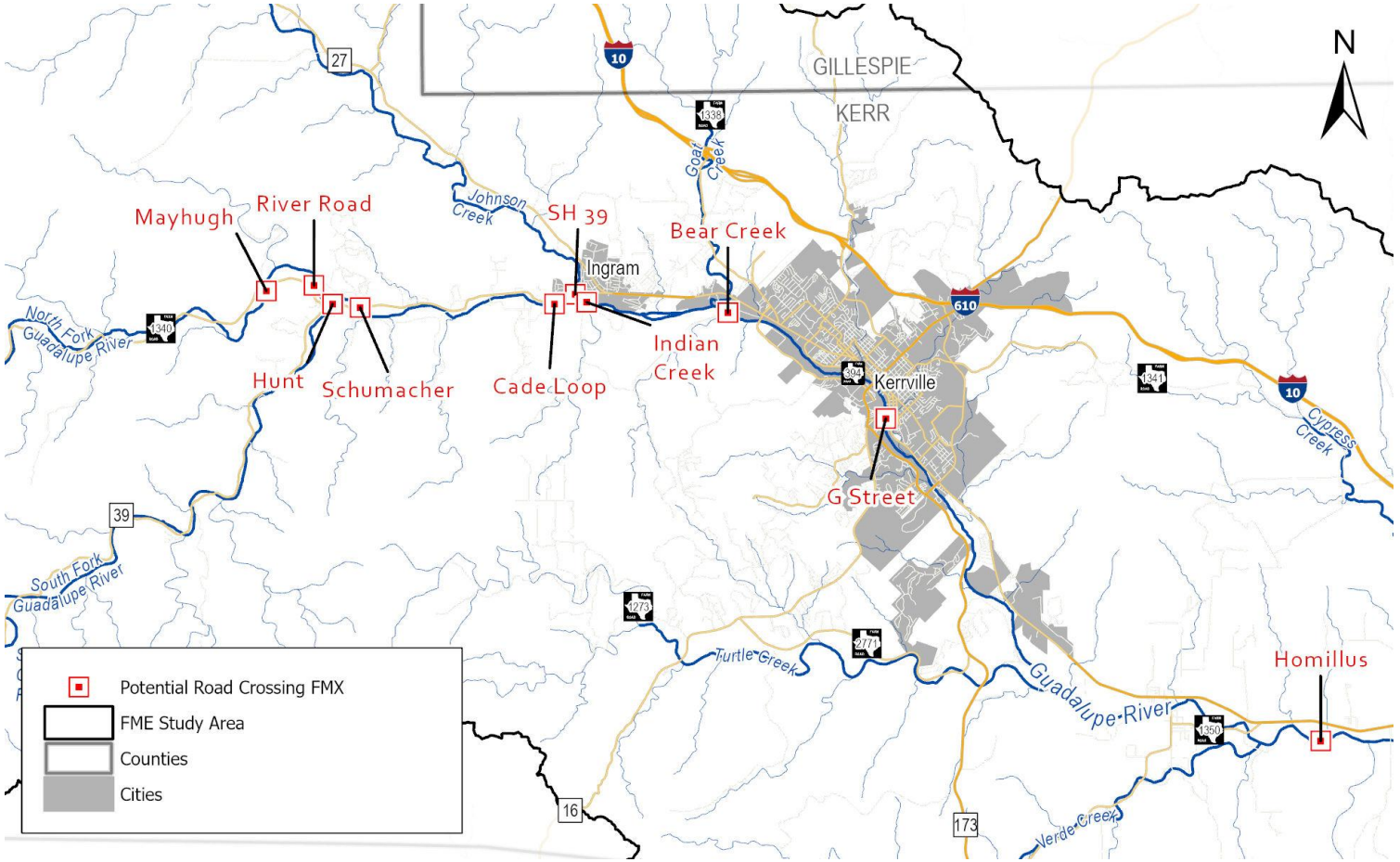
UGRA - FMX IDENTIFICATION – NON-STRUCTURAL

- Non-structural (FMS)
  - Voluntary buyouts
  - Land preservation
- North Fork, South Fork, Guadalupe River, Johnson Creek
- Methodology will consider other metrics **beyond FEMA Floodplain**
  - Flood severity
  - RL/SRL
  - Others TBD



UGRA - FMX IDENTIFICATION – ROAD CROSSINGS

- Potential Road Crossing Improvements
  - 10 potential crossings identified
  - Coordinated with UGRA
  - Key locations for mobility or ingress/egress



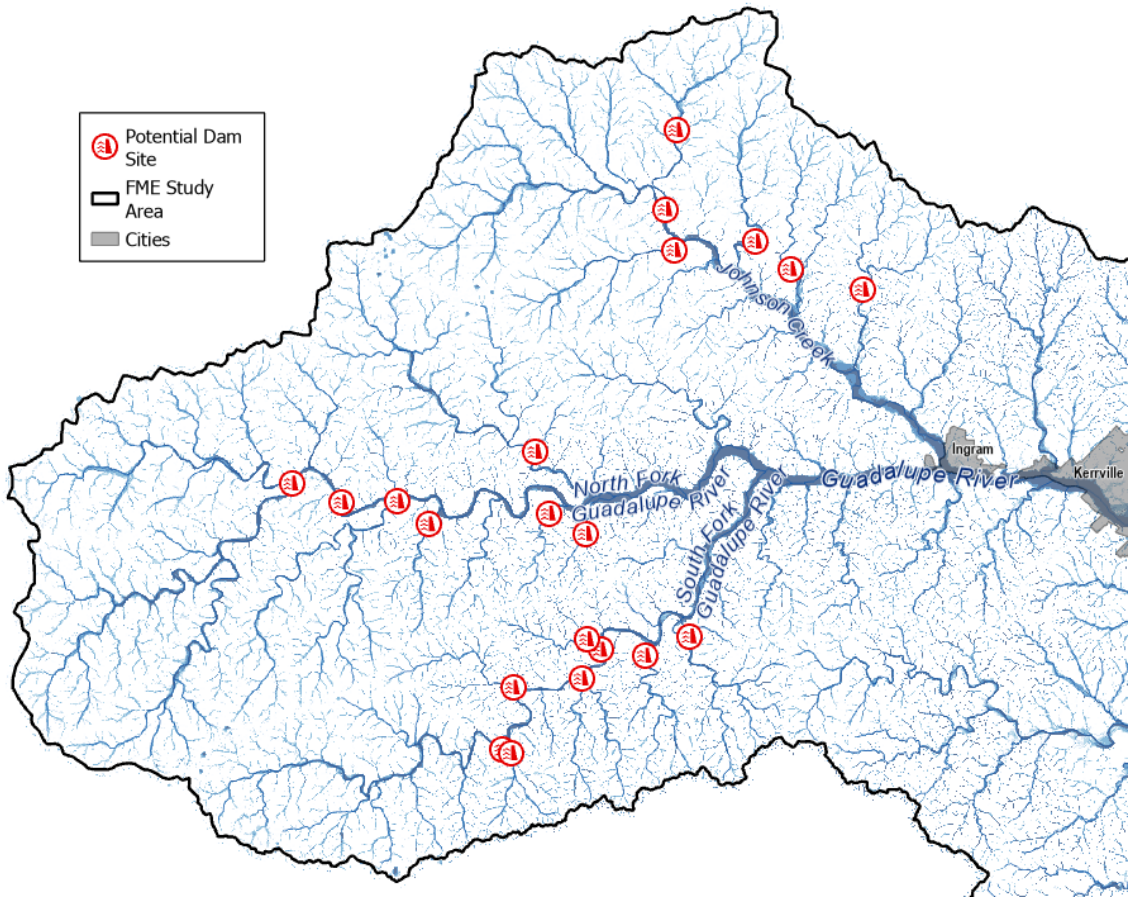
UGRA - FMX IDENTIFICATION - DAMS

- **What we have:**
  - A preliminary list of potential dam sites for further evaluation
  - Sites may be added or removed

- **What remains:**
  - Additional analyses to assess site suitability and effectiveness
  - Preliminary dam sizing and inundation limits
  - Construction cost estimates
  - Benefit cost analysis

UGRA - FMX IDENTIFICATION - DAMS

- Evaluated existing model peak flows, runoff volumes, and timing
- Identified major contributing locations
- 21 Potential Locations
  - 5 mainstem
  - 16 tributary

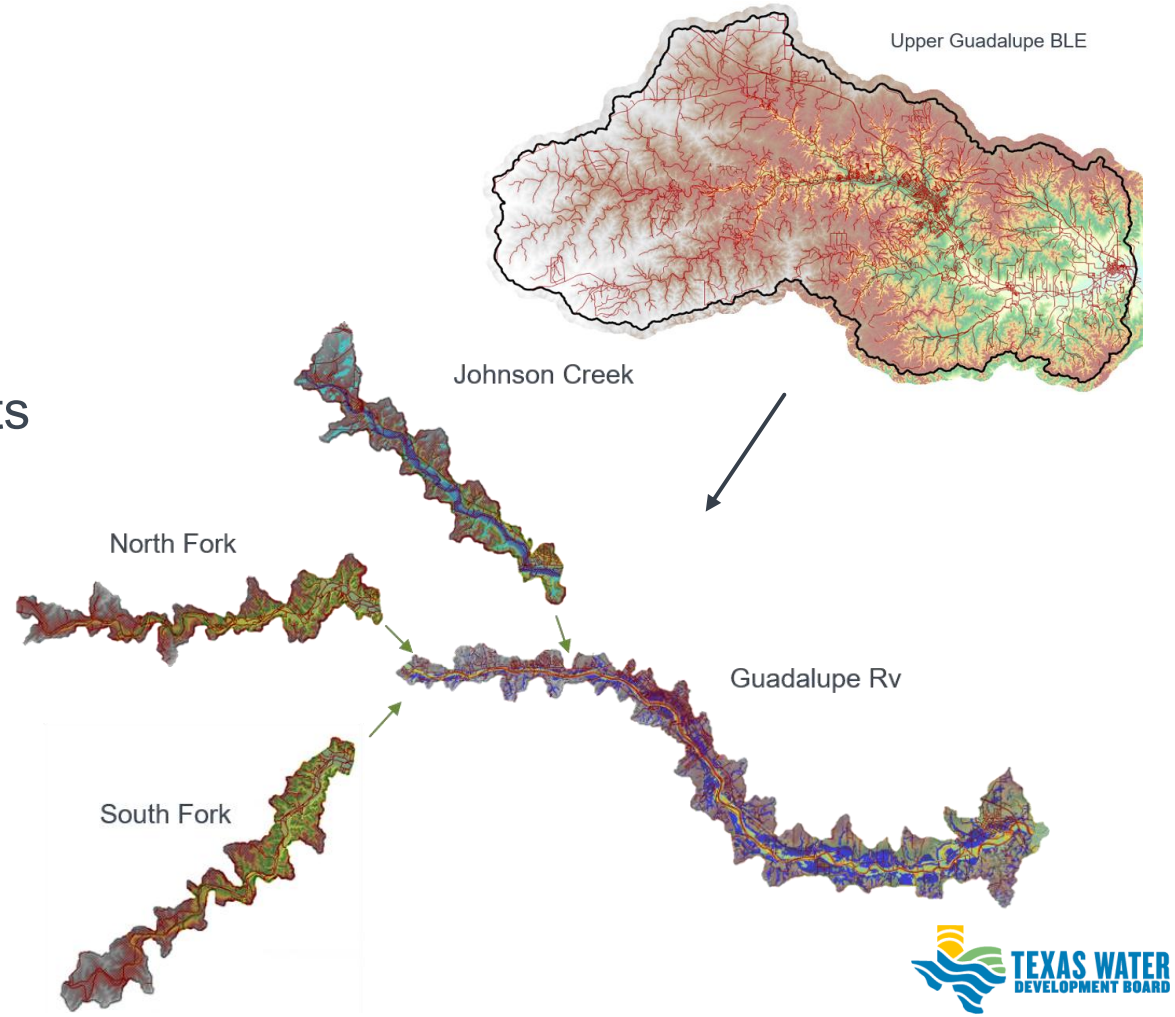


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EDGE ENGINEERING

UGRA – EXISTING CONDITIONS H&H

- InFRM WHA & BLE are foundation for FME models
- BLE model used for hydrology
  - Validating BLE with several historical events
  - Considering parameter adjustments; reviewing WHA parameters
- Detailed stream models for North Fork, South Fork, Johnson Creek, and Guadalupe River
- Atlas 14 50% ACE (2yr) – 0.2% ACE (500yr)

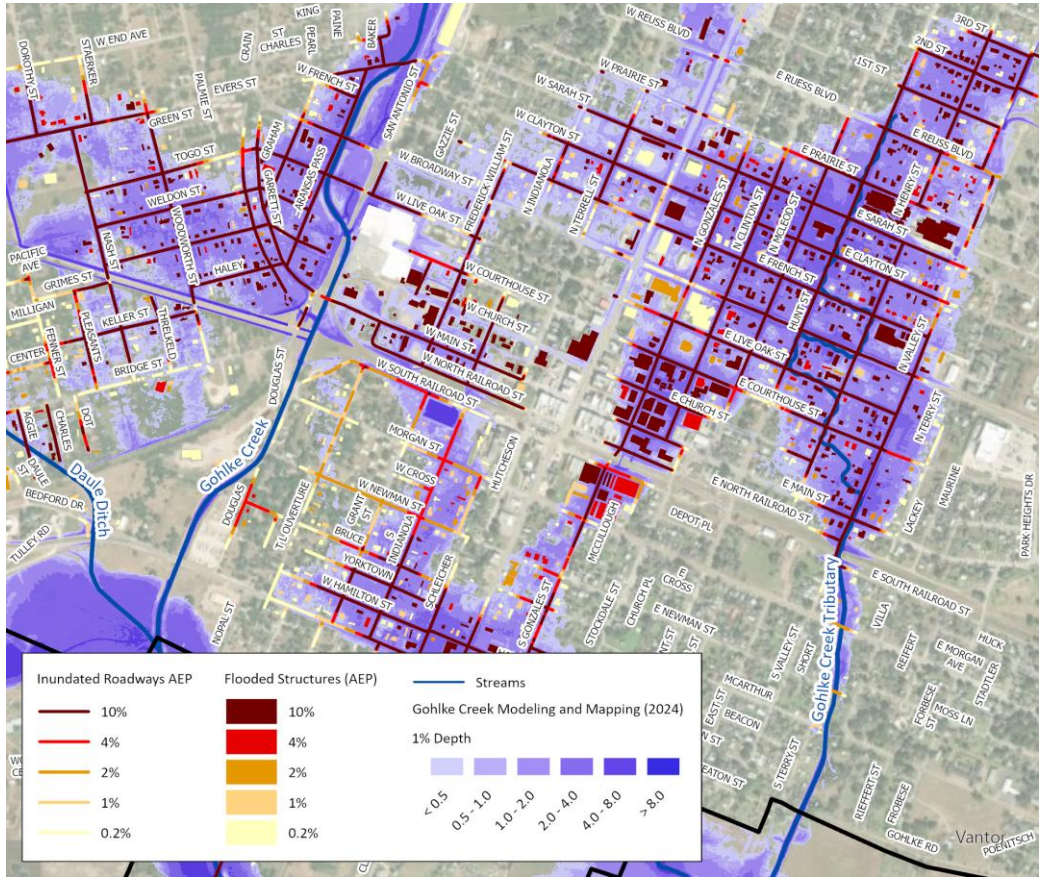


TEXAS WATER DEVELOPMENT BOARD

EDGE ENGINEERING

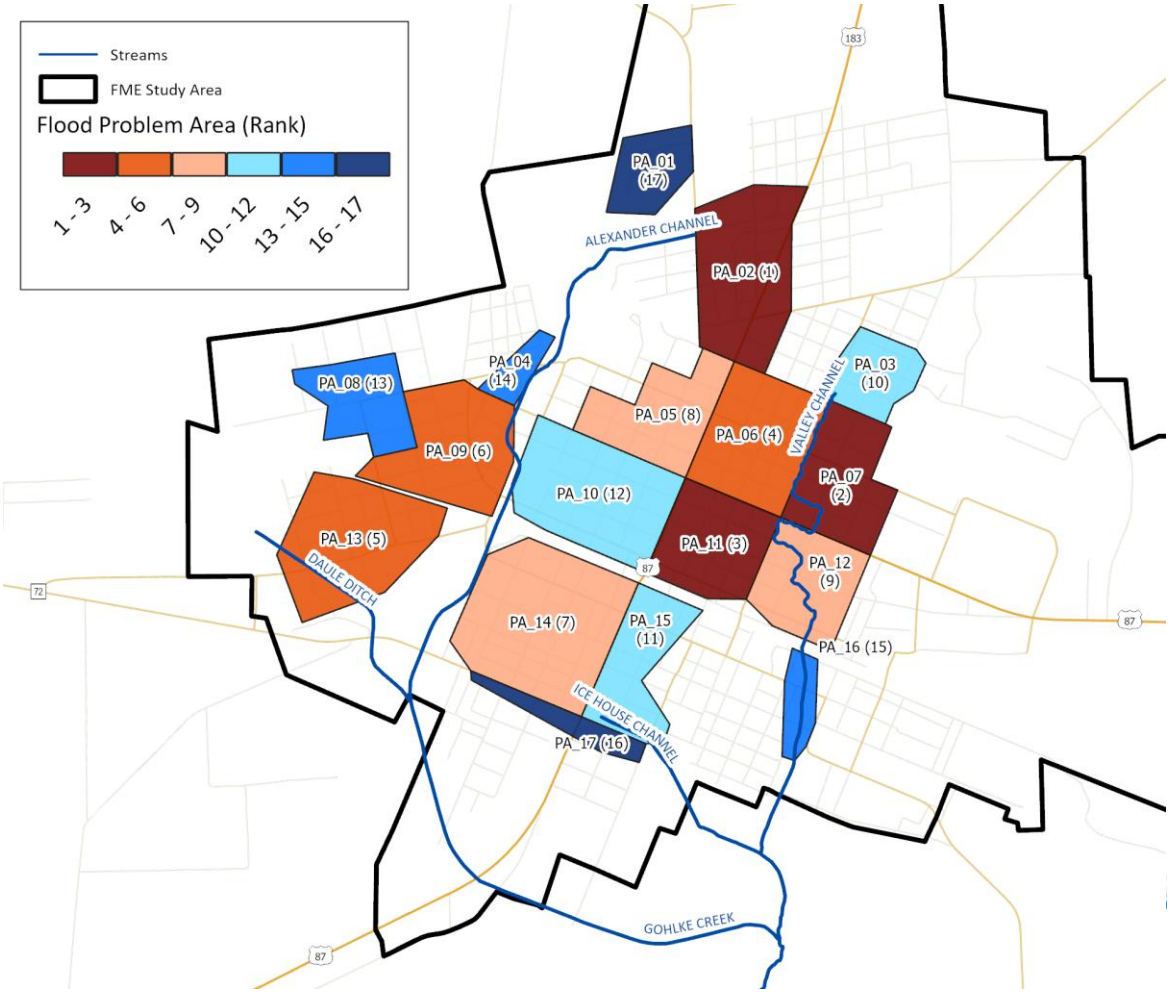
CUERO - FLOOD PROBLEM AREAS

- Previously identified areas
- Exposure analysis
- Utilized TWDB scoring criteria & weighting
- **Concurrence from GDDD**



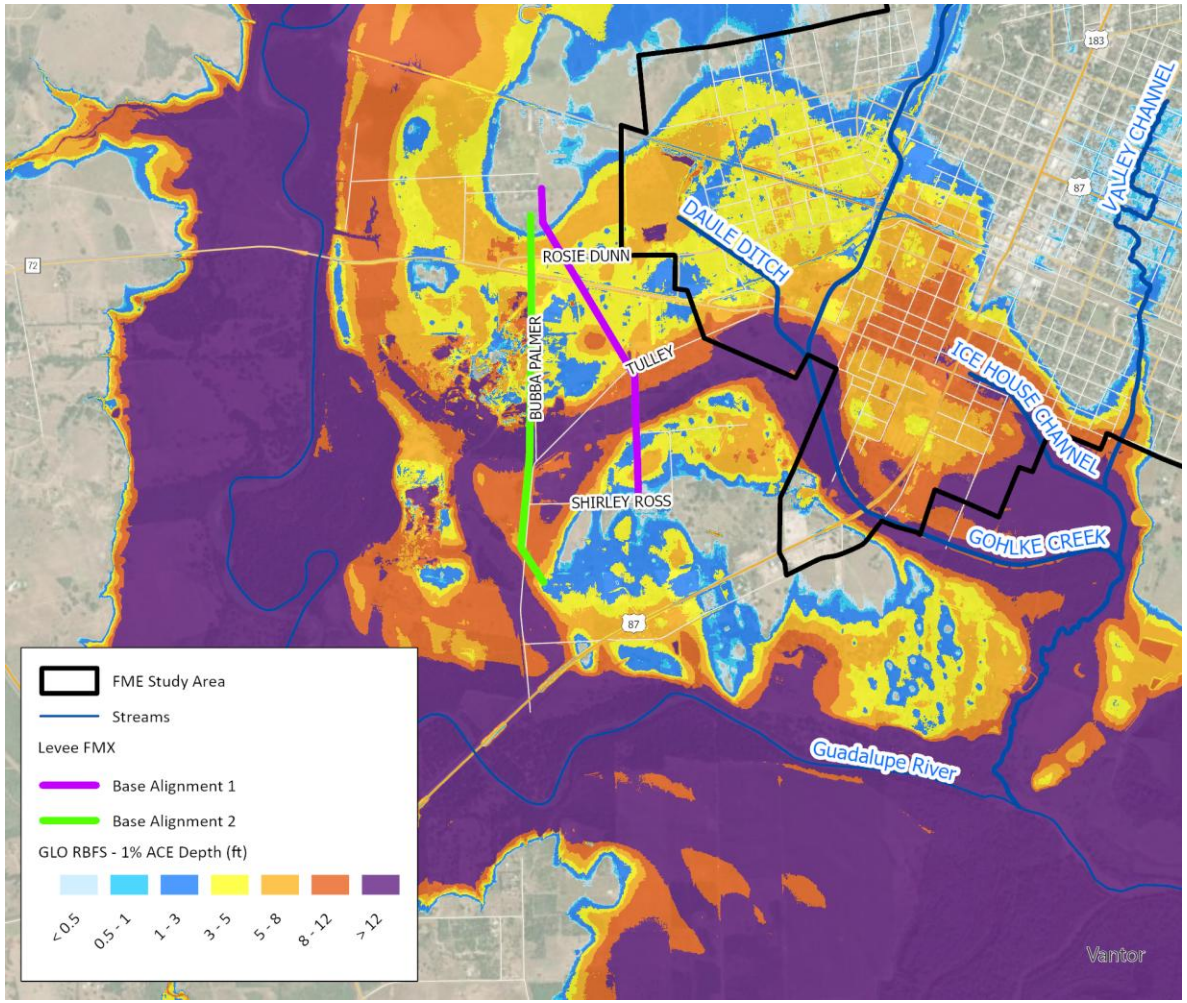
CUERO - PROBLEM AREA IDENTIFICATION

- Identified **19** flood problem areas
- Prioritization and Ranking
  - Inundated structures and roadways
  - Critical facilities (schools, hospitals, fire stations, etc.)
  - Population Counts
  - Frequency of flooding (10-, 25-, 50-, 100-yr)



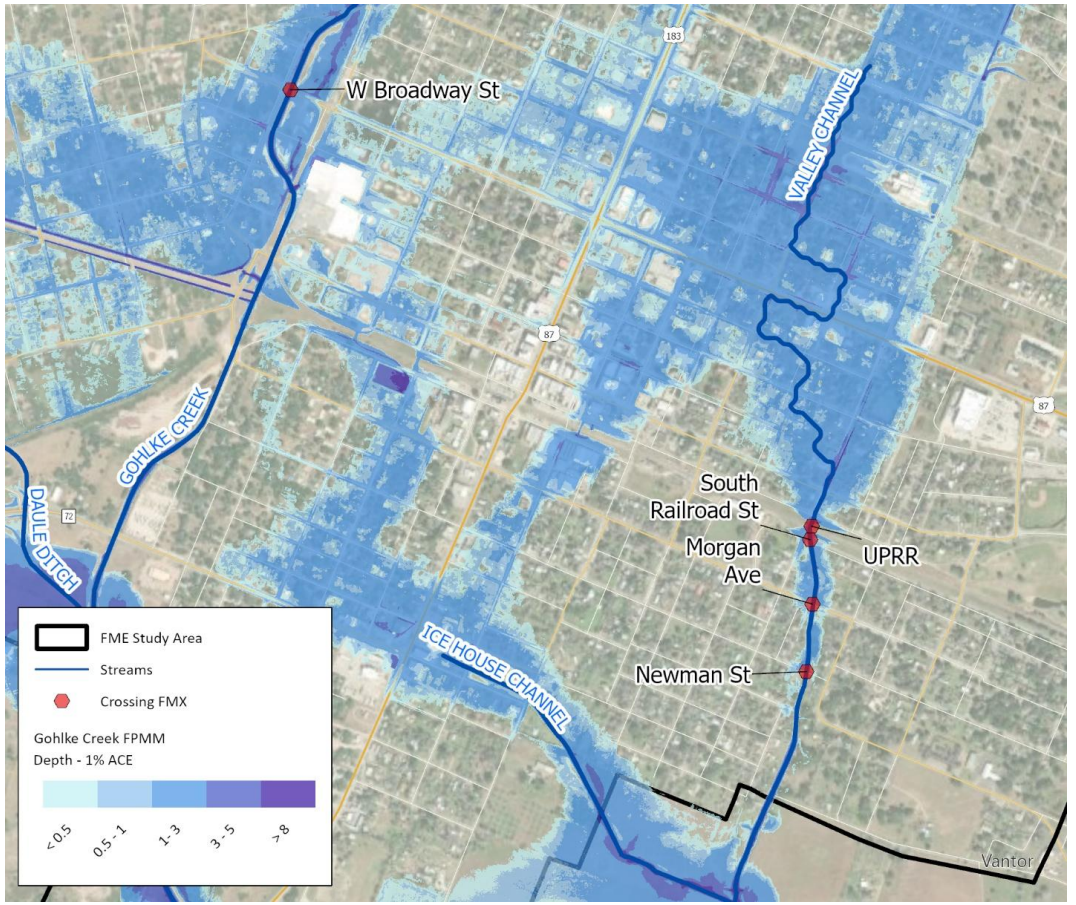
LEVEE FMX

- Purpose – mitigate flood events along the Guadalupe River
- Two Base Alignments Identified



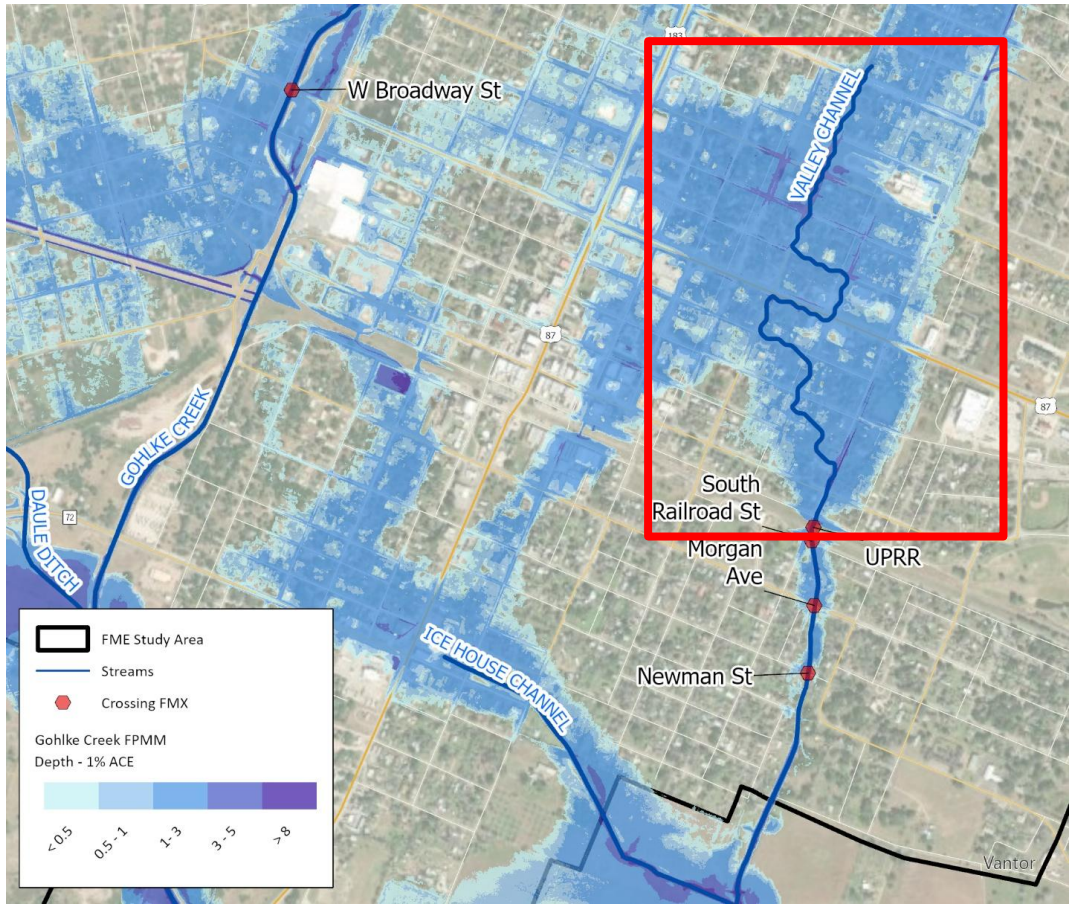
CROSSING FMX

- Five (5) crossings identified
- Valley Channel
  - UPRR
  - South Railroad St
  - Morgan Ave
  - Newman St
- Gohlke Creek
  - W Broadway St



STORM DRAIN FMX

- Valley Channel is mostly underground just north of South Railroad St.
- Refine available existing conditions modeling with storm drain.
- See if storm drain improvements would be a beneficial FMP



NEXT STEPS

- Incorporate feedback on Draft FMXs
- Finalize FMXs for detailed analysis
- Finalization of existing conditions H&H analysis
- Alternative solution modeling
- Opinions of Probable Construction Cost (OPCC)
- Benefit-Cost Analysis (BCA)
- 90% Milestone - February 2027
- 100% Milestone - April 2027

TEXAS WATER DEVELOPMENT BOARD
EDGE ENGINEERING

QUESTIONS & DISCUSSION



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Agenda Item 8

Inter-regional updates on Region 10 and Region 12

GBRA
Guadalupe-Blanco River Authority

GBRA.ORG

Agenda Item 9

RFPG Sponsor (GBRA) Updates

GBRA
Guadalupe-Blanco River Authority

GBRA.ORG

Agenda Item 10

Technical Consultants Presentation, Discussion, and Potential Action

GBRA
Guadalupe-Blanco River Authority

GBRA.ORG

Technical Consultant Presentation

- Updates
- Discussion and possible actions related to Task 5A: Recommendation of Flood Mitigation Projects (FMPs)
- Public Comments Received
- Look-ahead

FMES BEING PERFORMED BY THE TECHNICAL CONSULTANT

Task 4C - Update

Update of FMEs to be performed by the RFPG Technical Consultant

Task	Start
City of San Marcos	South LBJ Drive at Willow Springs Creek Project Planning
City of San Marcos	Low Water Crossing at Jackman Project Planning
City of Wimberley	Valley Drive at Pierce Creek Low Water Crossing Project Planning
City of Wimberley	City of Wimberley Flite Acres Drive Low Water Crossings Project Planning
City of Wimberley	City of Wimberley Green Acres Drive at Wilson Creek Low Water Crossing Project Planning
Caldwell County	Hemphill Creek Between SH 142 and SH 80
Caldwell County (City of Lockhart)	Mebane Creek Channel Improvements & Mebane Creek Floodwall

Update of FMEs to be performed by the RFPG Technical Consultant Schedule

Task	Start	Finish
Data Collection	7/27/26	8/21/26
Hydrologic Modeling	8/21/26	11/13/26
Hydraulic Modeling	8/21/26	10/02/26
Alternatives Development	10/05/26	11/13/26
Stakeholder Coordination	7/31/26	11/27/26
Draft Report	11/30/26	01/22/27
Final Report	02/01/27	02/25/27
RFPG Draft Submittal Presentation	02/09/27	
RFPG Final Submittal Presentation	04/13/27	

RECOMMENDATION OF FLOOD MITIGATION EVALUATIONS AND STRATEGIES

Task 5A - Update

FME Summary (as of September 29, 2026)

FME Types	Count	Percent
Project Planning	165	66.0%
Watershed Planning	77	30.8%
Preparedness	8	3.2%
Total	250	100%

- 107 FMEs added for the 2028 Regional Flood Plan
- 143 FMEs from the 2023 Region Flood Plan
- Entities with new additions
  - City of Buda
  - City of Kyle
  - Kendall County
  - City of Seguin
- 250 FMEs total for Cycle 2

FMS Summary (as of September 29, 2026)

FMS Types	Count	Percent
Regulatory and Guidance	71	40.8%
Flood Measurement and Warning	41	23.6%
Education and Outreach	31	17.8%
Property Acquisition and Structural Elevation	22	12.6%
Infrastructure Projects	8	4.6%
Other	1	0.6%
Total	174	100%

- 5 FMSs submitted in Cycle 1
  - Region wide
- 1 Region wide added for Land Conservation
- 174 FMSs total for Cycle 2

RECOMMENDATION OF FLOOD MITIGATION PROJECTS

Task 5A - Update

FMP Summary (as of October 29, 2026)

Jurisdiction	Count	Jurisdiction	Count
City of New Braunfels	13	Victoria County	2
Caldwell County	11	Gonzales County	2
Guadalupe County	9	Blanco County	1
City of Seguin	6	City of Cuero	1
Hays County	5	City of Gonzales	1
City of Kyle	4	City of Martindale	1
City of Victoria	4	City of Nixon	1
City of San Marcos	3	City of Wimberley	1
City of Waelder	3	City of Yorktown	1
Comal County	3	Kendall County	1
City of Westhoff	3	Town of Geronimo	1
City of Kerrville	2		

- 79 FMPs total for the 2028 Regional Flood Plan
- Entities with new additions
  - City of Westhoff
  - New Braunfels
  - Hays County

FMP Summary (as of September 29, 2026)

FMP Types	Count	Percent
Comprehensive	15	19.00%
Infrastructure	12	15.20%
LWC upgrade	15	19.00%
Property Elevation	11	13.90%
Channel	10	12.70%
Storm Drain	6	7.60%
Detention Pond	6	7.60%
Dam	3	3.80%
Flood Walls and Levees	1	1.30%

FMP OnePagers provided for RFPG Review

2028 Cycle FMPs (Sample)

FME Name	FME Description	County	FME Type
Blanco County Detention on the Blanco River	The proposed dam height of 102 ft. and dam length of 1,840 ft. will provide a maximum storage capacity of approximately 1128 ac-ft.	Blanco, Hays	Dam
Caldwell County Boggy Creek Channel Improvements Near SH 142	Channel improvements to reduce residential/commercial flooding near SH142	Caldwell	Channel
City of Kyle Plum Creek Tributary 3 Arbor Knot Dr. Improvement	A proposed culvert improvement has been developed to convey a 1% ACE event. The proposed culvert improvement is to add one additional 8ft x 4ft culvert totaling three culverts at this location, and raising the finished deck elevation by 0.5ft.	Hays	Infrastructure
City of Nixon Wastewater System Flood Improvements	The project includes a new generator and SCADA system improvements at the city's WWTP and Water Well 6 and alleviates inundation at the WWTP and 8th lift stations.	Gonzales	Comprehensive
City of Seguin Regional Detention Southwest of Seguin City Limits Project	Proposed regional detention detention project on Mays Creek.	Guadalupe	Detention Pond
City of Wimberley Wilson Creek Green Acres Dr. Improvement	A proposed updated culvert geometry consists of 11 box culverts (10ft-12ft) and a raised finished deck elevation (3ft rise).	Hays	Infrastructure

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	Blanco County Detention on the Blanco River
FMP ID	11-52-0000000001
Sponsor Entity ID	00-01-0000000031
Sponsor Name	Blanco County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Dam
FMP Description	The proposed dam height of 102 ft. and dam length of 1,840 ft. will provide a maximum storage capacity of approximately 1128 ac-ft.
County	Multiple
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	6.34
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	409
Population at risk	548	Structures at risk	495	Critical facilities	0
Farm/Ranch land impacted (acres)	955.77	Roadway(s) impacted (length)	8.37		
Number of low water crossings	10	Historical road closures	0		

100-Year Flood Risk Reduction

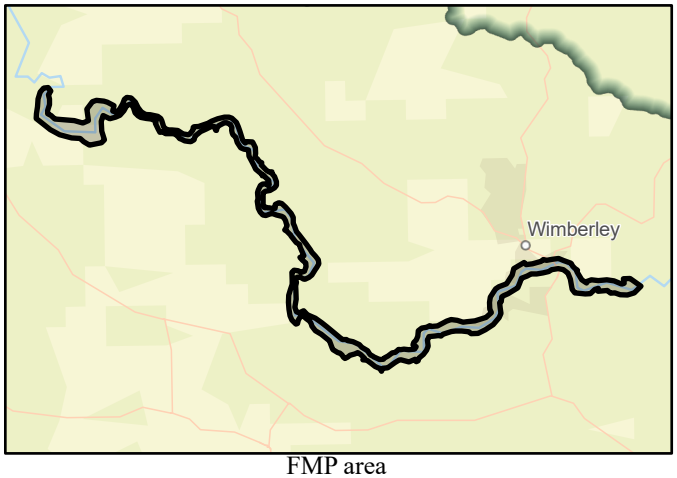
Population removed	548	Structures removed	495	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	955.77	Roadways removed (miles)	8.37
Low water crossing removed	10			Reduction in road closures over 10 years	0
Other benefits	None			Residential removed	409

Impacts

Negative impact?	No	Negative impacts description	NA
Water supply contributions?	Yes	Water supply contribution	.26 acre-feet/day. Average rates sourced from a TWDB 2002 Research paper of Groundwater Recharge in Texas

Estimated Cost

Total FMP Cost	$18,010,000	% Nature-Based	1.4%	Issues	Project depends on land aquisition
Recurring costs	$90,000	BCR	0.74		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	City of Kyle Plum Creek Tributary 3 Arbor Knot Dr. Improvement
FMP ID	11-52-0000000006
Sponsor Entity ID	00-01-0000002800
Sponsor Name	Kyle (Municipality)
RFPG Recommended?	No
Reason for Recommendation	WIthdrawn

FMP Details

FMP Type	Infrastructure
FMP Description	A proposed culvert improvement has been developed to convey a 1% ACE event. The proposed culvert improvement is to add one additional 8ft x 4ft culvert totaling three culverts at this location, and raising the finished deck elevation by 0.5ft.
County	Hays
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.02
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	2
Population at risk	4	Structures at risk	2	Critical facilities	0
Farm/Ranch land impacted (acres)	0	Roadway(s) impacted (length)	0		
Number of low water crossings	0	Historical road closures	0		

100-Year Flood Risk Reduction

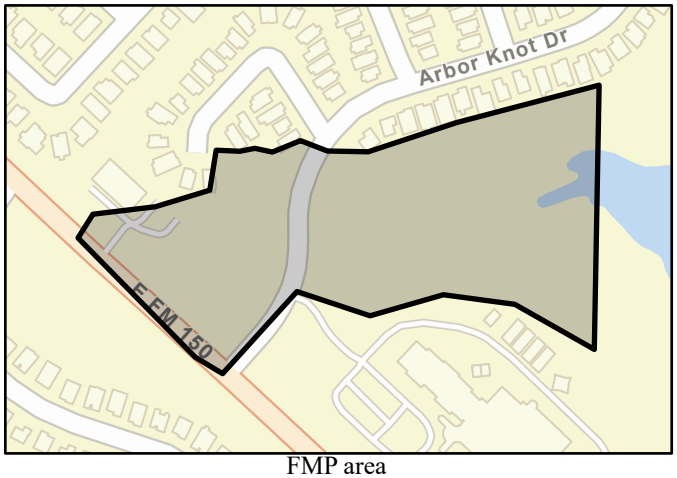
Population removed	4	Structures removed	2	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	0	Roadways removed (miles)	0
Low water crossing removed	0			Reduction in road closures over 10 years	1
Other benefits	Potentially less road closings			Residential removed	2

Impacts

Negative impact?	No	Negative impacts description	NA
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$557,000	% Nature-Based	1%	Issues	None
Recurring costs	$3,000	BCR	0.1		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE
REGIONAL FLOOD PLANNING GROUP

Title	City of Kyle Plum Creek Tributary 4 Sledge Rd. Improvement
FMP ID	11-52-0000000007
Sponsor Entity ID	00-01-0000002800
Sponsor Name	Kyle (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Infrastructure
FMP Description	The proposed culvert improvement resulted in eight (7ft x 4ft) box culverts, needed to clear the roadway and to alleviate additional backwater flooding.
County	Hays
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.04
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	0
Population at risk	0	Structures at risk	0	Critical facilities	0
Farm/Ranch land impacted (acres)	3.27	Roadway(s) impacted (length)	0.06		
Number of low water crossings	0	Historical road closures	0		

100-Year Flood Risk Reduction

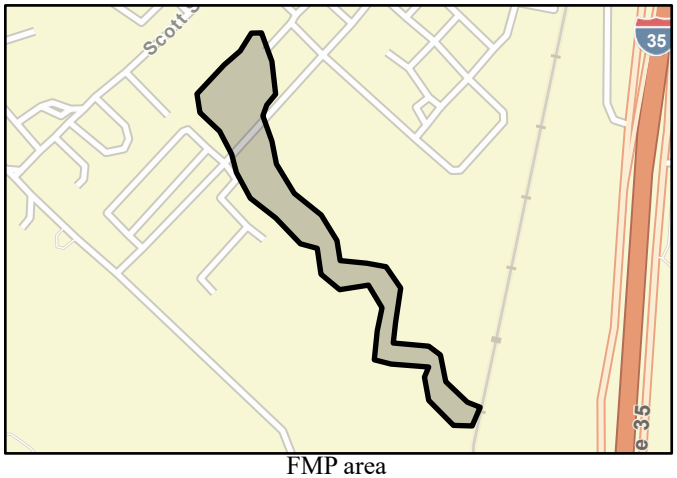
Population removed	0	Structures removed	0	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	3.27	Roadways removed (miles)	0.06
Low water crossing removed	0			Reduction in road closures over 10 years	0
Other benefits	Improve emergency access			Residential removed	0

Impacts

Negative impact?	No	Negative impacts description	NA
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$1,149,000	% Nature-Based	10%	Issues	None
Recurring costs	$6,000	BCR	0.1		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	City of Kyle 65ft Channel Modification and Additional Culvert
FMP ID	11-52-0000000010
Sponsor Entity ID	00-01-0000002800
Sponsor Name	Kyle (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Infrastructure
FMP Description	The channel modifications consists of 65-ft bottom width channel modifications with 4:1 side slopes spanning from the North I-35 frontage road down past Goforth Road to Kym Way.
County	Hays
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.19
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	7
Population at risk	55	Structures at risk	10	Critical facilities	0
Farm/Ranch land impacted (acres)	0.68	Roadway(s) impacted (length)	0.44		
Number of low water crossings	1	Historical road closures	0		

100-Year Flood Risk Reduction

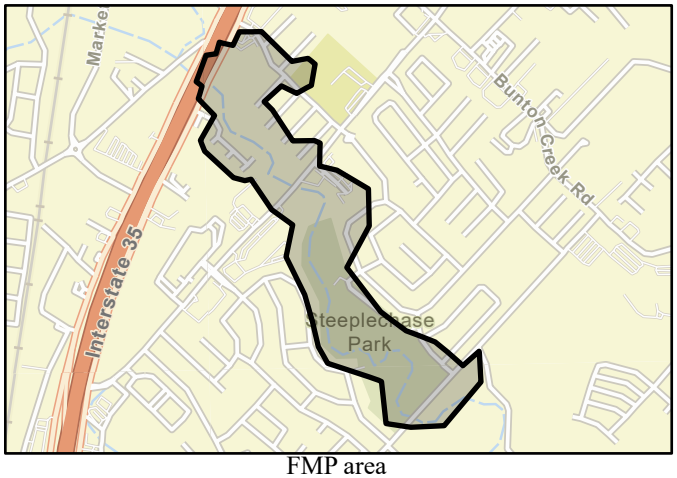
Population removed	55	Structures removed	10	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	0.68	Roadways removed (miles)	0.44
Low water crossing removed	1			Reduction in road closures over 10 years	0
Other benefits	Alleviate ponding, improve conveyance			Residential removed	7

Impacts

Negative impact?	No	Negative impacts description	NA
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$589,000	% Nature-Based	27.8%	Issues	Possible wetland restrictions, utility relocation, SWPPP implementation
Recurring costs	$3,000	BCR	1.73		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE
REGIONAL FLOOD PLANNING GROUP

Title	City of Kyle Plum Creek Detention Pond Upstream of IH35
FMP ID	11-52-0000000011
Sponsor Entity ID	00-01-0000002800
Sponsor Name	Kyle (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Detention Pond
FMP Description	This project consists of a detention pond between the railroad track and the South bound I-35 frontage road. Under this proposed alternative a 13-ft high dam wall would be placed on Plum Creek near Kyle Center Drive.
County	Hays
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.33
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	9
Population at risk	59	Structures at risk	13	Critical facilities	0
Farm/Ranch land impacted (acres)	5.75	Roadway(s) impacted (length)	0.92		
Number of low water crossings	2	Historical road closures	0		

100-Year Flood Risk Reduction

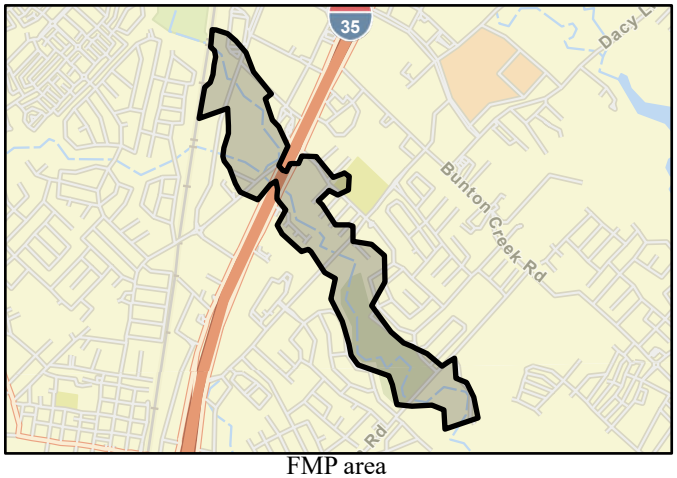
Population removed	59	Structures removed	13	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	5.75	Roadways removed (miles)	0.92
Low water crossing removed	2			Reduction in road closures over 10 years	0
Other benefits	None			Residential removed	9

Impacts

Negative impact?	No	Negative impacts description	NA
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$864,000	% Nature-Based	10.9%	Issues	SWPPP implementation, utility relocation, geotechnical analysis
Recurring costs	$4,000	BCR	1.51		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE
REGIONAL FLOOD PLANNING GROUP

Title	City of San Marcos Purgatory Creek Channel Improvement
FMP ID	11-52-0000000026
Sponsor Entity ID	11-01-0000003163
Sponsor Name	San Marcos (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Channel
FMP Description	The objectives consist of channel improvements along Purgatory Creek to mitigate flooding and integrate projects from the City of San Marcos master plans.
County	Hays
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.2
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	62
Population at risk	444	Structures at risk	89	Critical facilities	0
Farm/Ranch land impacted (acres)	0	Roadway(s) impacted (length)	1.91		
Number of low water crossings	1	Historical road closures	0		

100-Year Flood Risk Reduction

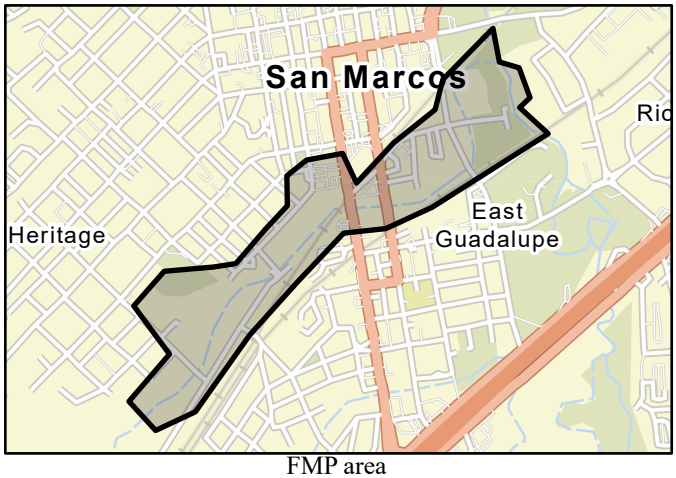
Population removed	444	Structures removed	89	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	0	Roadways removed (miles)	1.91
Low water crossing removed	1			Reduction in road closures over 10 years	0
Other benefits	Added natural features			Residential removed	62

Impacts

Negative impact?	No	Negative impacts description	NA
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$22,391,000	% Nature-Based	2.2%	Issues	Utility Relocation, Underground telecom, permitting
Recurring costs	$112,000	BCR	0.11		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	City of San Marcos Sherwood/Kingwood Drainage Improvements
FMP ID	11-52-0000000027
Sponsor Entity ID	11-01-0000003163
Sponsor Name	San Marcos (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Infrastructure
FMP Description	Recommendations include improvements to the water, wastewater, drainage utility systems and street pavement of Kingwood Street and Sherwood Drive and a rain garden at the west end of Sherwood Drive.
County	Hays
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.06
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	14
Population at risk	55	Structures at risk	17	Critical facilities	0
Farm/Ranch land impacted (acres)	0	Roadway(s) impacted (length)	0.26		
Number of low water crossings	0	Historical road closures	0		

100-Year Flood Risk Reduction

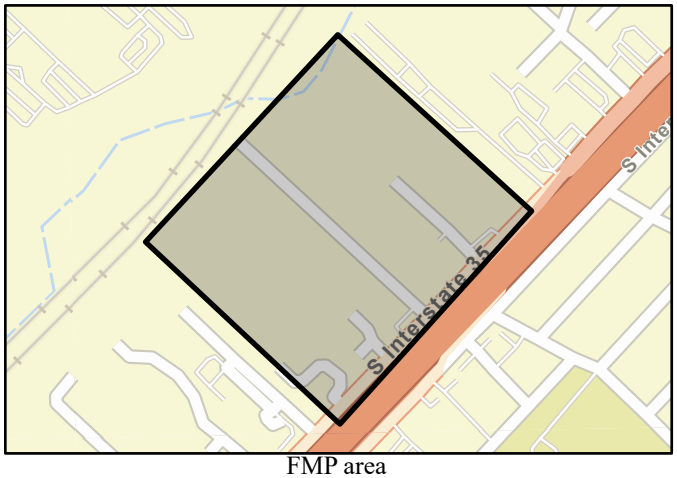
Population removed	55	Structures removed	17	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	0	Roadways removed (miles)	0.26
Low water crossing removed	0			Reduction in road closures over 10 years	0
Other benefits	None			Residential removed	14

Impacts

Negative impact?	No	Negative impacts description	NA
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$5,644,000	% Nature-Based	2%	Issues	None
Recurring costs	$3,000	BCR	0.8		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	City of Waelder Baldridge Creek Regional Detention Pond
FMP ID	11-52-0000000036
Sponsor Entity ID	11-01-0000002395
Sponsor Name	Waelder (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Comprehensive
FMP Description	The proposed regional detention pond on Baldridge Creek would be located northwest of the city. It would release runoff at a substantially lower flowrate, resulting in a lower flood elevation.
County	Gonzales
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.97
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	69
Population at risk	80	Structures at risk	136	Critical facilities	1
Farm/Ranch land impacted (acres)	130.33	Roadway(s) impacted (length)	2.84		
Number of low water crossings	5	Historical road closures	0		

100-Year Flood Risk Reduction

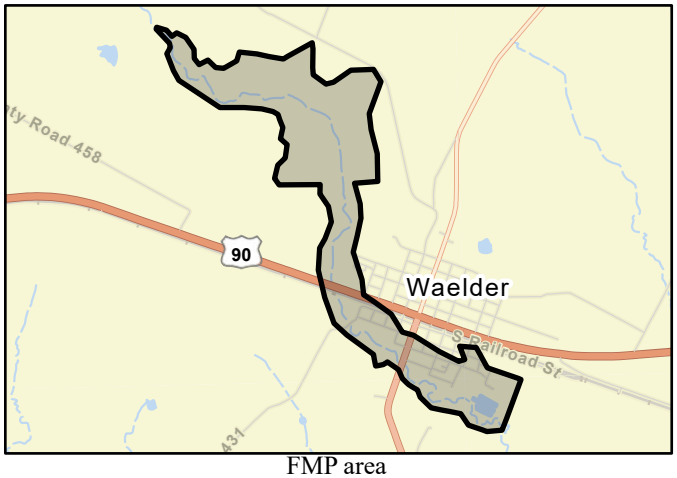
Population removed	80	Structures removed	136	Critical facilities removed	1
Emergency facilities removed	0	Farm/ranch removed	130.33	Roadways removed (miles)	2.84
Low water crossing removed	5			Reduction in road closures over 10 years	0
Other benefits	None			Residential removed	69

Impacts

Negative impact?	No	Negative impacts description	NA
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$2,573,000	% Nature-Based	6%	Issues	SWPPP, utility relocation
Recurring costs	$14,000	BCR	1.19		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	City of Waelder Baldridge Creek Channel and Culvert Improvement and Detention Pond
FMP ID	11-52-0000000037
Sponsor Entity ID	11-01-0000002395
Sponsor Name	Waelder (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Comprehensive
FMP Description	The chosen alternative consists of a 50 ft bottom width channel modification with 3:1 side slopes downstream of SH 97 and the addition of two 10' x 10' concrete box culverts.
County	Gonzales
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.29
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	68
Population at risk	83	Structures at risk	126	Critical facilities	1
Farm/Ranch land impacted (acres)	6.34	Roadway(s) impacted (length)	2.39		
Number of low water crossings	4	Historical road closures	0		

100-Year Flood Risk Reduction

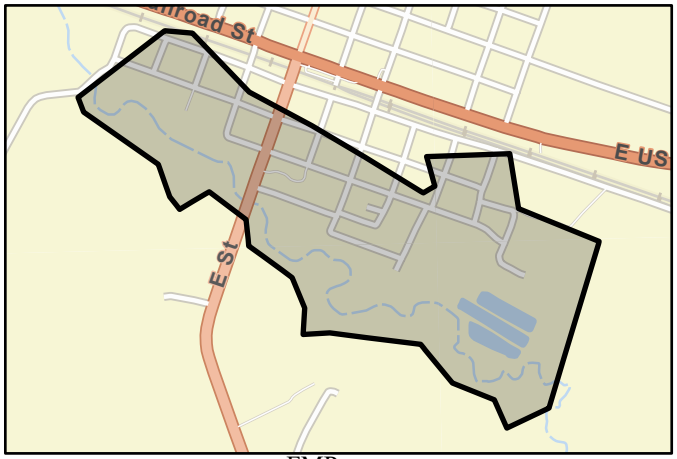
Population removed	83	Structures removed	126	Critical facilities removed	1
Emergency facilities removed	0	Farm/ranch removed	6.34	Roadways removed (miles)	2.39
Low water crossing removed	4			Reduction in road closures over 10 years	0
Other benefits	None			Residential removed	68

Impacts

Negative impact?	No	Negative impacts description	NA
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$3,928,000	% Nature-Based	5%	Issues	permitting, jurisdictional waters,SWPPP implementation, utility relocation, possible watering, and geotechnical analysis
Recurring costs	$20,000	BCR	0.78		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE
REGIONAL FLOOD PLANNING GROUP

Title	City of Wimberley Wilson Creek Green Acres Dr. Improvement
FMP ID	11-52-0000000039
Sponsor Entity ID	11-01-0000002432
Sponsor Name	
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Infrastructure
FMP Description	A proposed updated culvert geometry consists of 11 box culverts (10ft-12ft) and a raised finished deck elevation (3ft rise).
County	Hays
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.02
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	No	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	2
Population at risk	2	Structures at risk	2	Critical facilities	0
Farm/Ranch land impacted (acres)	0	Roadway(s) impacted (length)	0.11		
Number of low water crossings	1	Historical road closures	0		

100-Year Flood Risk Reduction

Population removed	2	Structures removed	2	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	0	Roadways removed (miles)	0.11
Low water crossing removed	1			Reduction in road closures over 10 years	0
Other benefits	None			Residential removed	2

Impacts

Negative impact?	No	Negative impacts description	NA
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$1,246,000	% Nature-Based	2%	Issues	permitting, temporary erosion and sedimentation controls
Recurring costs	$6,000	BCR	0.1		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	Comal County Regional Detention on Bear Creek
FMP ID	11-52-0000000044
Sponsor Entity ID	00-01-0000000014
Sponsor Name	Comal County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Detention Pond
FMP Description	The proposed dam height of 85 ft. and dam length of 620 ft. will provide a maximum storage capacity of approximately 3,375 ac-ft.
County	Comal
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	393.04
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	Yes	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	17	Residential at risk	6,696
Population at risk	16,051	Structures at risk	9,073	Critical facilities	94
Farm/Ranch land impacted (acres)	83,283.15	Roadway(s) impacted (length)	242.71		
Number of low water crossings	19	Historical road closures	0		

100-Year Flood Risk Reduction

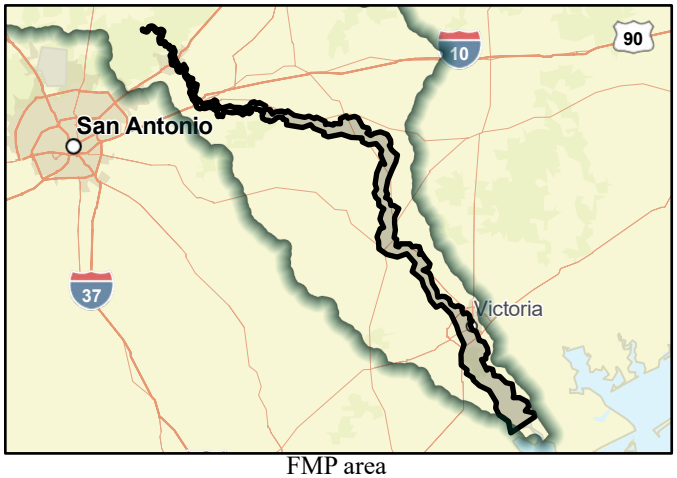
Population removed	16,043	Structures removed	9,072	Critical facilities removed	94
Emergency facilities removed	17	Farm/ranch removed	83,283.15	Roadways removed (miles)	242.71
Low water crossing removed	17			Reduction in road closures over 10 years	0
Other benefits	Would also benefit city of New Braunfels and Seguin			Residential removed	6,695

Impacts

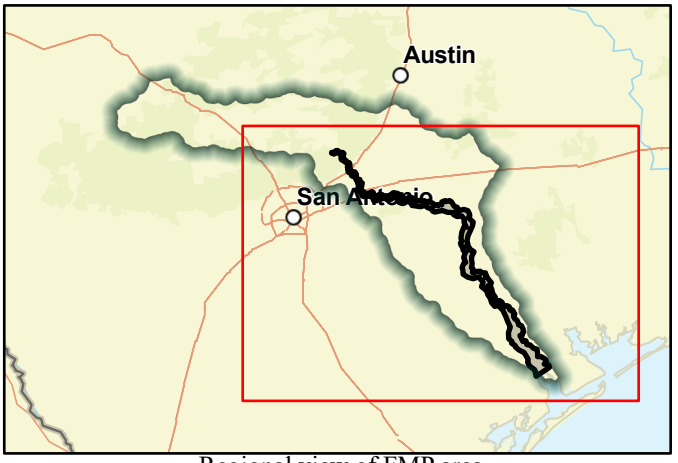
Negative impact?	No	Negative impacts description	NA
Water supply contributions?	Yes	Water supply contribution	.15 acre-feet/day. Average rates sourced from a TWDB 2002 Research paper of Groundwater Recharge in Texas

Estimated Cost

Total FMP Cost	$9,179,000	% Nature-Based	1.3%	Issues	None
Recurring costs	$46,000	BCR	2.64		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	Gonzales County Regional Detention on Peach Creek
FMP ID	11-52-0000000047
Sponsor Entity ID	00-01-0000000008
Sponsor Name	Gonzales County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Detention Pond
FMP Description	A 29 ft. high dam with a length of 5780 ft. would provide approximately 41,774 ac-ft of storage. This site would be able to store a large volume of water and greatly reduce the peak from the Peach Creek watershed.
County	Gonzales
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	312.51
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	Yes	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	15	Residential at risk	2,670
Population at risk	6,573	Structures at risk	4,187	Critical facilities	73
Farm/Ranch land impacted (acres)	68,403.39	Roadway(s) impacted (length)	162.11		
Number of low water crossings	12	Historical road closures	0		

100-Year Flood Risk Reduction

Population removed	6,573	Structures removed	4,187	Critical facilities removed	73
Emergency facilities removed	15	Farm/ranch removed	68,403.39	Roadways removed (miles)	162.11
Low water crossing removed	12			Reduction in road closures over 10 years	0
Other benefits	None			Residential removed	2,670

Impacts

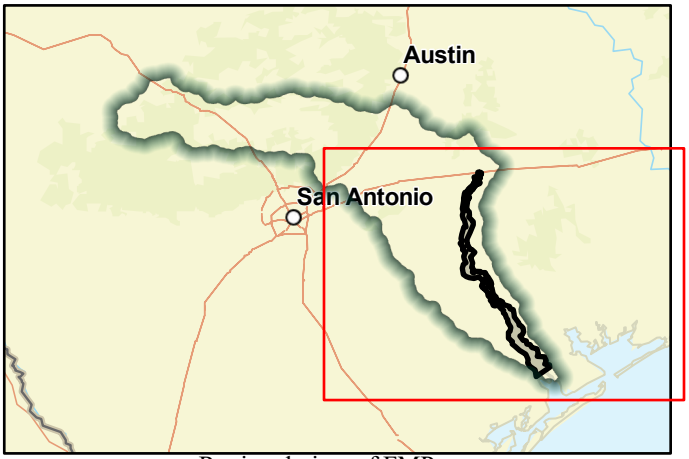
Negative impact?	No	Negative impacts description	NA
Water supply contributions?	Yes	Water supply contribution	.02 acre-feet/day. Average rates sourced from a TWDB 2002 Research paper of Groundwater Recharge in Texas

Estimated Cost

Total FMP Cost	$39,227,000	% Nature-Based	1.9%	Issues	Project depends on land aquisition
Recurring costs	$196,000	BCR	0.15		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	City of Nixon Wastewater System Flood Improvements
FMP ID	11-52-0000000062
Sponsor Entity ID	11-01-0000002393
Sponsor Name	Nixon (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Comprehensive
FMP Description	The project includes a new generator and SCADA system improvements at the city's WWTP and Water Well 6 and alleviates inundation at the WWTP and 8th lift stations.
County	Gonzales
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	1.35
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	6
Population at risk	22	Structures at risk	13	Critical facilities	0
Farm/Ranch land impacted (acres)	7.83	Roadway(s) impacted (length)	0.12		
Number of low water crossings	0	Historical road closures	0		

100-Year Flood Risk Reduction

Population removed	22	Structures removed	13	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	7.83	Roadways removed (miles)	0.12
Low water crossing removed	0			Reduction in road closures over 10 years	0
Other benefits	None			Residential removed	6

Impacts

Negative impact?	No	Negative impacts description	NA
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$3,949,000	% Nature-Based	0%	Issues	None
Recurring costs	$2,500	BCR	0		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	City of Seguin Regional Detention Southwest of Seguin City Limits Project
FMP ID	11-52-0000000065
Sponsor Entity ID	11-01-0000002616
Sponsor Name	Seguin (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Detention Pond
FMP Description	Proposed regional detention detention project on Mays Creek.
County	Guadalupe
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.32
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	18
Population at risk	37	Structures at risk	19	Critical facilities	0
Farm/Ranch land impacted (acres)	27.94	Roadway(s) impacted (length)	0.38		
Number of low water crossings	1	Historical road closures	0		

100-Year Flood Risk Reduction

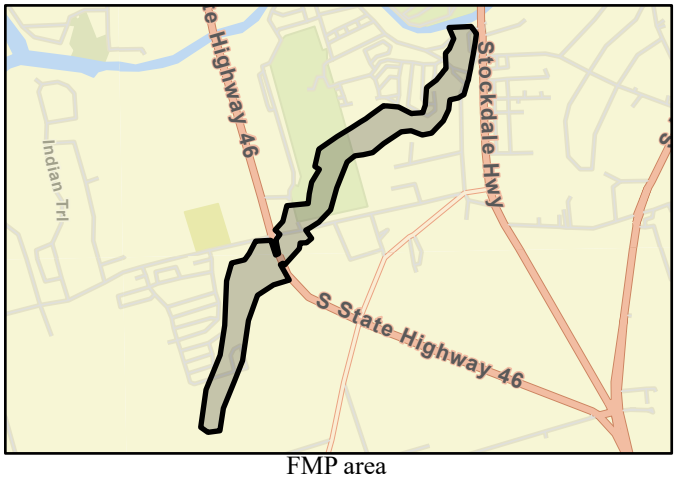
Population removed	37	Structures removed	19	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	27.94	Roadways removed (miles)	0.38
Low water crossing removed	1			Reduction in road closures over 10 years	0
Other benefits	prevent road overtopping			Residential removed	18

Impacts

Negative impact?	No	Negative impacts description	NA
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$2,015,000	% Nature-Based	13.7%	Issues	None
Recurring costs	$10,000	BCR	1.17		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE
REGIONAL FLOOD PLANNING GROUP

Title	City of Seguin Culvert Improvements at Guadalupe River Drive Project
FMP ID	11-52-0000000066
Sponsor Entity ID	11-01-0000002616
Sponsor Name	Seguin (Municipality)
RFPG Recommended?	No
Reason for Recommendation	Withdrawn

FMP Details

FMP Type	LWC upgrade
FMP Description	Proposed project to add two additional 10 ft. by 10 ft. reinforced concrete box culverts on either side of the existing two- 10ft. by 10ft. box culverts at Guadalupe River Dr.
County	Guadalupe
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.08
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	14
Population at risk	32	Structures at risk	15	Critical facilities	0
Farm/Ranch land impacted (acres)	7.67	Roadway(s) impacted (length)	0.26		
Number of low water crossings	0	Historical road closures	0		

100-Year Flood Risk Reduction

Population removed	32	Structures removed	15	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	7.67	Roadways removed (miles)	0.26
Low water crossing removed	0			Reduction in road closures over 10 years	0
Other benefits	Relieve structures upstream Mays Creek from backwater flooding			Residential removed	14

Impacts

Negative impact?	No	Negative impacts description	NA
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$594,000	% Nature-Based	4.2%	Issues	None
Recurring costs	$3,000	BCR	1.28		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	City of Victoria Channel and Bridge Modifications on State Highway 87 Project
FMP ID	11-52-0000000067
Sponsor Entity ID	00-01-0000000094
Sponsor Name	Victoria County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Comprehensive
FMP Description	Proposed channel and bridge modification project. The design modification consists of adding two additional piers to the right and left overbanks of the bridge.
County	Victoria
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.15
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	No	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	3
Population at risk	5	Structures at risk	4	Critical facilities	0
Farm/Ranch land impacted (acres)	73.29	Roadway(s) impacted (length)	1.05		
Number of low water crossings	0	Historical road closures	0		

100-Year Flood Risk Reduction

Population removed	5	Structures removed	4	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	73.29	Roadways removed (miles)	1.05
Low water crossing removed	0			Reduction in road closures over 10 years	0
Other benefits	Reduces severity and frequency of flooding along SH 87 and Nursery Drive, minimizes			Residential removed	3

Impacts

Negative impact?	No	Negative impacts description	NA
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$8,350,000	% Nature-Based	2.8%	Issues	SWPP implementation, utility relocation, geotechnical analysis
Recurring costs	$42,000	BCR	0.25		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	City of Victoria Detention Structure Located Upstream of State Highway 87 Project
FMP ID	11-52-0000000068
Sponsor Entity ID	00-01-0000000094
Sponsor Name	Victoria County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Comprehensive
FMP Description	The proposed detention structure is located upstream of State Highway 87. The detention basin has a proposed height of 11ft from crest to inlet structure, a capacity of 3700 ac-ft, and three culvert outlet structures.
County	Victoria
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	3.19
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	49
Population at risk	157	Structures at risk	67	Critical facilities	0
Farm/Ranch land impacted (acres)	662.2	Roadway(s) impacted (length)	4.44		
Number of low water crossings	3	Historical road closures	0		

100-Year Flood Risk Reduction

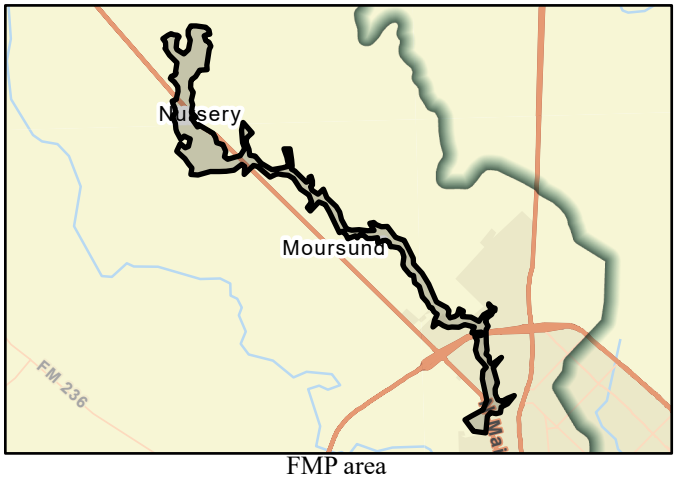
Population removed	155	Structures removed	66	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	662.2	Roadways removed (miles)	4.44
Low water crossing removed	3			Reduction in road closures over 10 years	0
Other benefits	None			Residential removed	48

Impacts

Negative impact?	No	Negative impacts description	NA
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$58,395,000	% Nature-Based	1.3%	Issues	higher cost for excavation due to ground elevations close to sea level
Recurring costs	$292,000	BCR	0.1		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	Guadalupe County Detention on York Creek Project
FMP ID	11-52-0000000069
Sponsor Entity ID	00-01-0000000010
Sponsor Name	Guadalupe County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Comprehensive
FMP Description	Project for detention on York Creek. The currently proposed dam height of 48 ft. and dam length of 4800 ft. will provide a maximum storage capacity of approximately 48,130 ac-ft.
County	Guadalupe
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	365.33
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	Yes	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	15	Residential at risk	2,960
Population at risk	7,047	Structures at risk	4,739	Critical facilities	81
Farm/Ranch land impacted (acres)	88,461.6	Roadway(s) impacted (length)	193.11		
Number of low water crossings	16	Historical road closures	0		

100-Year Flood Risk Reduction

Population removed	7,047	Structures removed	4,739	Critical facilities removed	81
Emergency facilities removed	15	Farm/ranch removed	88,461.6	Roadways removed (miles)	193.11
Low water crossing removed	16			Reduction in road closures over 10 years	0
Other benefits	Reduces flooding along San Marcos and Guadalupe River as well as throughout the cities of			Residential removed	2,960

Impacts

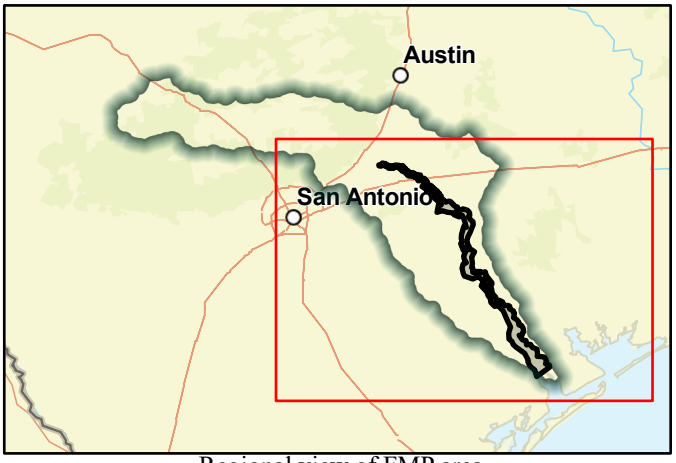
Negative impact?	No	Negative impacts description	NA
Water supply contributions?	Yes	Water supply contribution	.008 feet-acre/day. Average rates sourced from a TWDB 2002 Research paper of Groundwater Recharge in Texas

Estimated Cost

Total FMP Cost	$45,376,000	% Nature-Based	1.6%	Issues	None
Recurring costs	$227,000	BCR	0.52		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	Victoria County Nursery Road LWC
FMP ID	11-52-0000000070
Sponsor Entity ID	00-01-0000000094
Sponsor Name	Victoria County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	LWC upgrade
FMP Description	Improvements consist of five (9ft x 9ft) box culverts and raising the deck elevation to be able to pass the 10% ACE (10-yr) event without overtopping.
County	Victoria
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.11
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	No	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	6
Population at risk	5	Structures at risk	6	Critical facilities	0
Farm/Ranch land impacted (acres)	10.32	Roadway(s) impacted (length)	0.31		
Number of low water crossings	0	Historical road closures	2		

100-Year Flood Risk Reduction

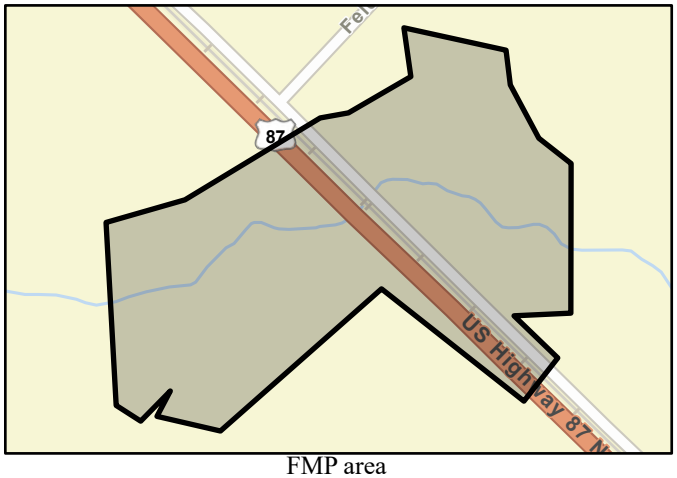
Population removed	5	Structures removed	6	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	10.32	Roadways removed (miles)	0.31
Low water crossing removed	0			Reduction in road closures over 10 years	2
Other benefits	Improved roads			Residential removed	6

Impacts

Negative impact?	No	Negative impacts description	NA
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$724,000	% Nature-Based	1.1%	Issues	None
Recurring costs	$3,600	BCR	1.1		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	Victoria County Parsons Road LWC
FMP ID	11-52-0000000071
Sponsor Entity ID	00-01-0000000094
Sponsor Name	Victoria County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	LWC upgrade
FMP Description	Improvements consist of 10 (12ft x 12ft) box culverts and raising the deck elevation to be able to pass the 10% ACE (10-yr) event without overtopping.
County	Victoria
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.13
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	No	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	2
Population at risk	2	Structures at risk	2	Critical facilities	0
Farm/Ranch land impacted (acres)	8.59	Roadway(s) impacted (length)	0.13		
Number of low water crossings	1	Historical road closures	5		

100-Year Flood Risk Reduction

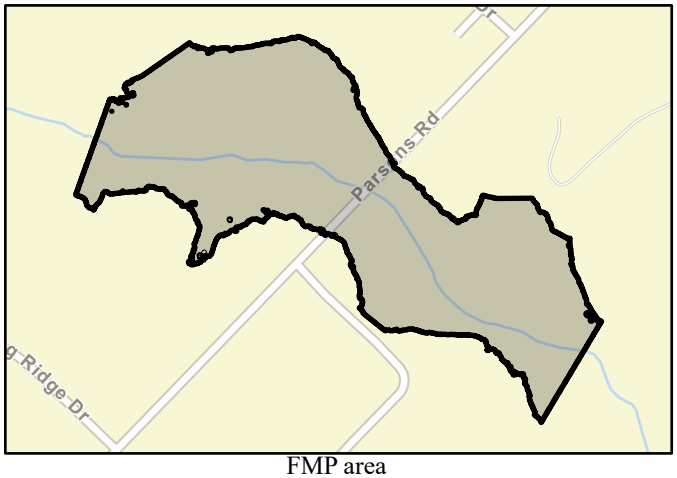
Population removed	2	Structures removed	2	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	8.59	Roadways removed (miles)	0.13
Low water crossing removed	1			Reduction in road closures over 10 years	5
Other benefits	Improved roads			Residential removed	2

Impacts

Negative impact?	No	Negative impacts description	NA
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$905,000	% Nature-Based	0.6%	Issues	None
Recurring costs	$4,800	BCR	2.8		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE
REGIONAL FLOOD PLANNING GROUP

Title	Comal County River Road LWC
FMP ID	11-52-0000000072
Sponsor Entity ID	00-01-0000000014
Sponsor Name	Comal County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	LWC upgrade
FMP Description	The proposed improvements include five (7 ft x 7 ft) box culverts to withstand a 10% ACE (10-yr) event while rerouting River Road to protect existing Cypress trees.
County	Comal
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.01
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	No	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	0
Population at risk	0	Structures at risk	0	Critical facilities	0
Farm/Ranch land impacted (acres)	1.58	Roadway(s) impacted (length)	0.05		
Number of low water crossings	1	Historical road closures	5		

100-Year Flood Risk Reduction

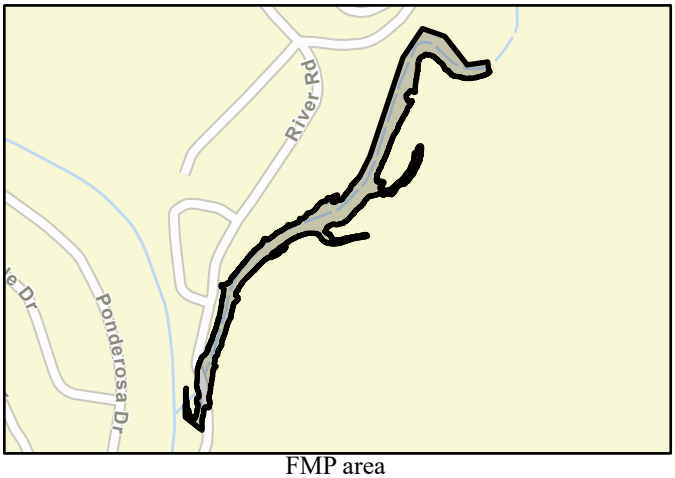
Population removed	0	Structures removed	0	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	1.58	Roadways removed (miles)	0.05
Low water crossing removed	1			Reduction in road closures over 10 years	5
Other benefits	Improved roads			Residential removed	0

Impacts

Negative impact?	No	Negative impacts description	NA
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$1,087,000	% Nature-Based	0.7%	Issues	ROW needed
Recurring costs	$5,500	BCR	1.6		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	Kendall County Cypress Creek Detention
FMP ID	11-52-0000000073
Sponsor Entity ID	00-01-0000000017
Sponsor Name	Kendall County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Detention Pond
FMP Description	Flood reduction analysis focused on identifying regional detention measures within the Cypress Creek watershed to reduce flood risk in and around the town of Comfort, TX.
County	Multiple
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.76
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	No	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	5	Residential at risk	183
Population at risk	223	Structures at risk	254	Critical facilities	5
Farm/Ranch land impacted (acres)	176.52	Roadway(s) impacted (length)	5.94		
Number of low water crossings	1	Historical road closures	0		

100-Year Flood Risk Reduction

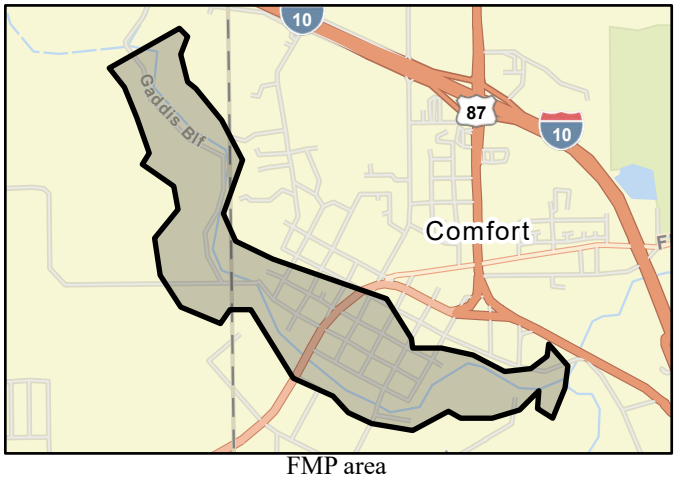
Population removed	223	Structures removed	254	Critical facilities removed	5
Emergency facilities removed	5	Farm/ranch removed	176.52	Roadways removed (miles)	5.94
Low water crossing removed	1			Reduction in road closures over 10 years	0
Other benefits	None			Residential removed	183

Impacts

Negative impact?	No	Negative impacts description	NA
Water supply contributions?	Yes	Water supply contribution	2.19-73 acre-feet/day. varied rates found in FMPs Report

Estimated Cost

Total FMP Cost	$14,350,000	% Nature-Based	0.6%	Issues	None
Recurring costs	$72,000	BCR	1.05		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE
REGIONAL FLOOD PLANNING GROUP

Title	Caldwell County Tenney Creek Rd (CR141) @ Hines Branch
FMP ID	11-52-0000000074
Sponsor Entity ID	00-01-0000000016
Sponsor Name	Caldwell County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	LWC upgrade
FMP Description	Upgrade existing low water crossing to include box culverts and channel improvements
County	Caldwell
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.22
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	No	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	0
Population at risk	0	Structures at risk	0	Critical facilities	0
Farm/Ranch land impacted (acres)	72.33	Roadway(s) impacted (length)	0.15		
Number of low water crossings	0	Historical road closures	0		

100-Year Flood Risk Reduction

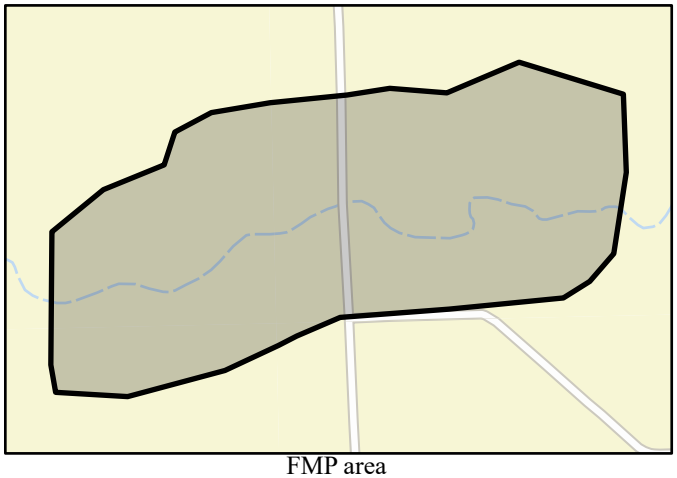
Population removed	0	Structures removed	0	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	72.33	Roadways removed (miles)	0.15
Low water crossing removed	0			Reduction in road closures over 10 years	0
Other benefits	Reduces severity and frequency of flooding on CR 141			Residential removed	0

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$2,893,000	% Nature-Based	5%	Issues	None identified at this time
Recurring costs	$1,000	BCR	0		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	Caldwell County SH 80 Low Water Crossing Improvements @ Morrison Creek
FMP ID	11-52-0000000075
Sponsor Entity ID	00-01-0000000016
Sponsor Name	Caldwell County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	LWC upgrade
FMP Description	Upgrade existing low water crossing to include culverts, channel improvements, and detention
County	Caldwell
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	1.85
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	14
Population at risk	44	Structures at risk	18	Critical facilities	0
Farm/Ranch land impacted (acres)	247.48	Roadway(s) impacted (length)	1.03		
Number of low water crossings	0	Historical road closures	0		

100-Year Flood Risk Reduction

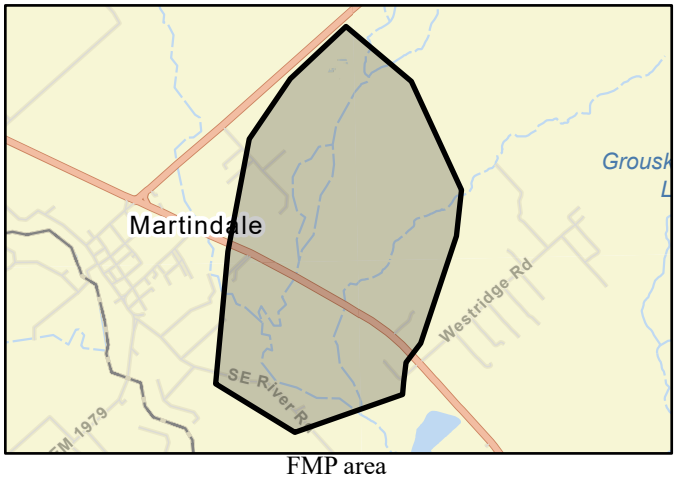
Population removed	44	Structures removed	18	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	247.48	Roadways removed (miles)	1.03
Low water crossing removed	0			Reduction in road closures over 10 years	0
Other benefits	Reduces severity and frequency of flooding on SH 80			Residential removed	14

Impacts

Negative impact?	Yes	Negative impacts description	Localized WSEL rises between 0.35 ft and 0.50 ft
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$20,224,000	% Nature-Based	5%	Issues	None identified at this time
Recurring costs	$5,000	BCR	0		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	Caldwell County Salt Branch Drainage Improvements in Luling
FMP ID	11-52-0000000076
Sponsor Entity ID	00-01-0000000016
Sponsor Name	Caldwell County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	LWC upgrade
FMP Description	Expand existing US 183 bridge and upgrade existing LWCs at Walnut and Laurel with box culverts and channel improvements
County	Caldwell
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.28
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	6
Population at risk	52	Structures at risk	11	Critical facilities	0
Farm/Ranch land impacted (acres)	11.11	Roadway(s) impacted (length)	0.51		
Number of low water crossings	0	Historical road closures	0		

100-Year Flood Risk Reduction

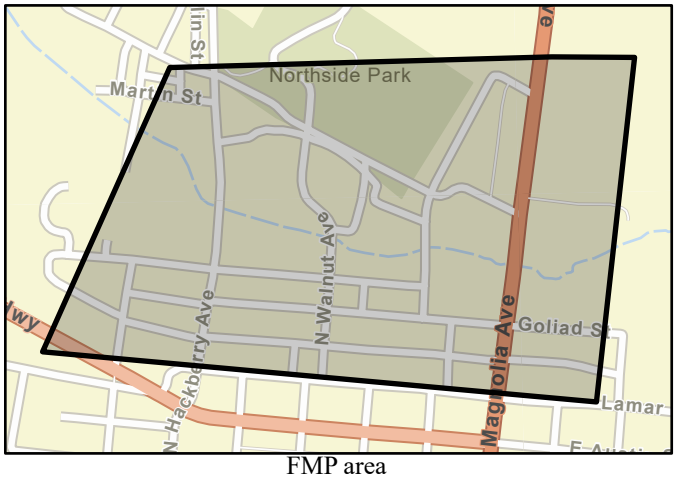
Population removed	52	Structures removed	11	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	11.11	Roadways removed (miles)	0.51
Low water crossing removed	0			Reduction in road closures over 10 years	0
Other benefits	Reduces severity and frequency of flooding on Walnut Ave. and Laurel Ave.			Residential removed	6

Impacts

Negative impact?	No	Negative impacts description	NA
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$5,798,000	% Nature-Based	5%	Issues	None identified at this time
Recurring costs	$1,000	BCR	0.7		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE
REGIONAL FLOOD PLANNING GROUP

Title	Caldwell County Polonia Rd (CR 233) and FM 2001 @ Plum Creek
FMP ID	11-52-0000000077
Sponsor Entity ID	00-01-0000000016
Sponsor Name	Caldwell County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Comprehensive
FMP Description	Upgrade existing low water crossing on Polonia Road to include new bridge; channel improvements at FM 2001 and Polonia Road
County	Caldwell
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.8
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	No	Playa?	No	Other?	No

Known lives lost in study area	1	Emergency facilities at risk	0	Residential at risk	2
Population at risk	8	Structures at risk	5	Critical facilities	0
Farm/Ranch land impacted (acres)	183.4	Roadway(s) impacted (length)	0.98		
Number of low water crossings	1	Historical road closures	0		

100-Year Flood Risk Reduction

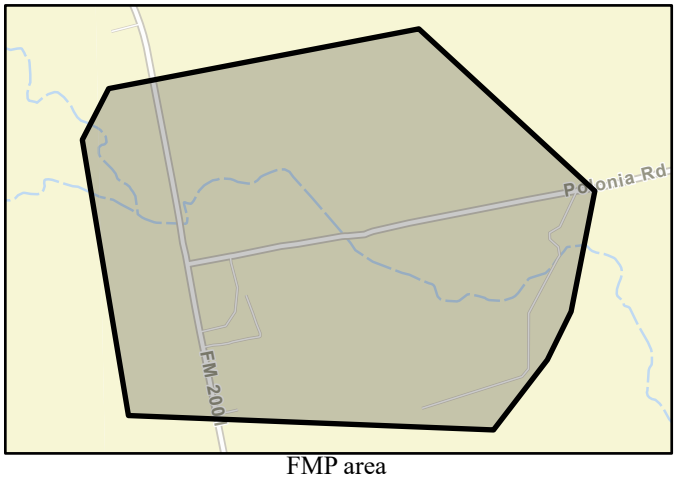
Population removed	8	Structures removed	5	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	183.4	Roadways removed (miles)	0.98
Low water crossing removed	1			Reduction in road closures over 10 years	0
Other benefits	Reduced severity and frequency of flooding on CR 233			Residential removed	2

Impacts

Negative impact?	No	Negative impacts description	NA
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$7,934,000	% Nature-Based	5%	Issues	None identified at this time
Recurring costs	$1,000	BCR	0.5		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	Caldwell County Plum Creek Channel Improvements Near S Old Spanish Trail (CR 227)
FMP ID	11-52-0000000078
Sponsor Entity ID	00-01-0000000016
Sponsor Name	Caldwell County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Channel
FMP Description	Channel Improvements to mitigate residential and commercial flooding near S Old Spanish Trail (CR 227)
County	Multiple
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.39
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	2
Population at risk	10	Structures at risk	8	Critical facilities	0
Farm/Ranch land impacted (acres)	52.62	Roadway(s) impacted (length)	0.17		
Number of low water crossings	0	Historical road closures	0		

100-Year Flood Risk Reduction

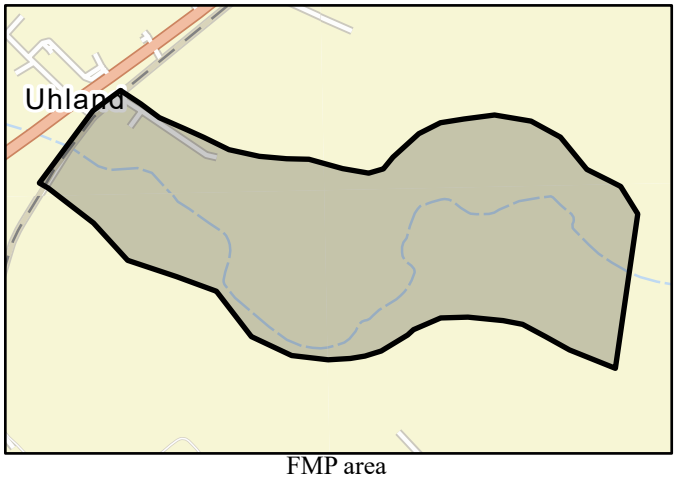
Population removed	10	Structures removed	8	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	52.62	Roadways removed (miles)	0.17
Low water crossing removed	0			Reduction in road closures over 10 years	0
Other benefits	None			Residential removed	2

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$5,587,000	% Nature-Based	5%	Issues	None identified at this time
Recurring costs	$1,000	BCR	0		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	Caldwell County Hemphill Creek Drainage Improvements Near FM 1984
FMP ID	11-52-0000000079
Sponsor Entity ID	00-01-0000000016
Sponsor Name	Caldwell County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Comprehensive
FMP Description	Channel improvements; Bridge Extension; Bridge conversion; and detention to reduce residential flooding near FM 1984
County	Caldwell
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.62
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	No	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	3
Population at risk	3	Structures at risk	3	Critical facilities	0
Farm/Ranch land impacted (acres)	30.75	Roadway(s) impacted (length)	0.21		
Number of low water crossings	1	Historical road closures	0		

100-Year Flood Risk Reduction

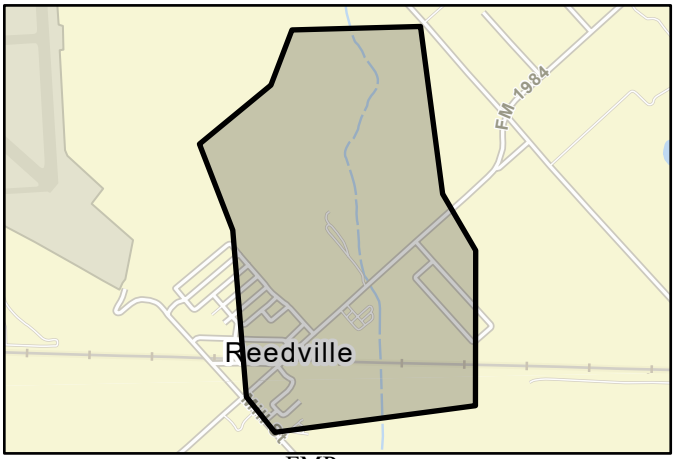
Population removed	3	Structures removed	3	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	30.75	Roadways removed (miles)	0.21
Low water crossing removed	1			Reduction in road closures over 10 years	0
Other benefits	Reduces severity and frequency of flooding at FM 1984			Residential removed	3

Impacts

Negative impact?	Yes	Negative impacts description	Localized WSEL rises between 0.35 ft and 0.50 ft
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$19,790,000	% Nature-Based	5%	Issues	None identified at this time
Recurring costs	$5,000	BCR	0		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	Caldwell County US 183 @ Clear Fork Plum Creek
FMP ID	11-52-0000000080
Sponsor Entity ID	00-01-0000000016
Sponsor Name	Caldwell County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Comprehensive
FMP Description	Expand existing US 183 and Robin Ranch Rd bridge openings; channel improvements
County	Caldwell
Associated FME's	-
Associated FMS's	-
Emergency Need?	Yes
If yes, describe Emergency Need	School at the end of roadway that gets cut off during floods
Drainage area (mi² est.)	0.84
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	No	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	3	Residential at risk	0
Population at risk	150	Structures at risk	3	Critical facilities	3
Farm/Ranch land impacted (acres)	53.61	Roadway(s) impacted (length)	0.17		
Number of low water crossings	0	Historical road closures	0		

100-Year Flood Risk Reduction

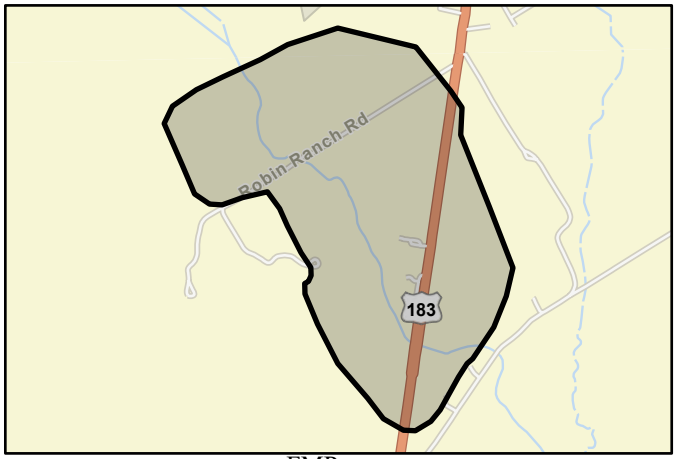
Population removed	150	Structures removed	3	Critical facilities removed	3
Emergency facilities removed	3	Farm/ranch removed	53.61	Roadways removed (miles)	0.17
Low water crossing removed	0			Reduction in road closures over 10 years	0
Other benefits	Improves bridges at US 183 and Robin Ranch Road			Residential removed	0

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$16,501,000	% Nature-Based	5%	Issues	None identified at this time
Recurring costs	$1,000	BCR	0		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	Caldwell County Brushy Creek Channel Improvements Near Las Estancias II
FMP ID	11-52-0000000081
Sponsor Entity ID	00-01-0000000016
Sponsor Name	Caldwell County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Channel
FMP Description	Channel improvements to reduce residential flooding within Las Estancias II subdivision
County	Multiple
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.38
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	No	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	0
Population at risk	0	Structures at risk	0	Critical facilities	0
Farm/Ranch land impacted (acres)	7.39	Roadway(s) impacted (length)	0		
Number of low water crossings	0	Historical road closures	0		

100-Year Flood Risk Reduction

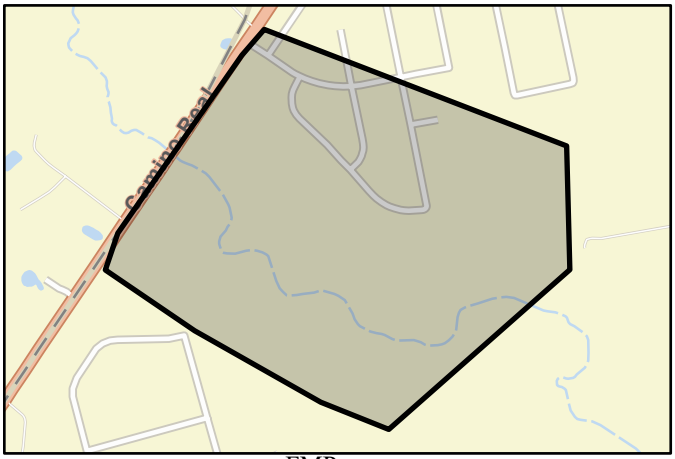
Population removed	0	Structures removed	0	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	7.39	Roadways removed (miles)	0
Low water crossing removed	0			Reduction in road closures over 10 years	0
Other benefits	None			Residential removed	0

Impacts

Negative impact?	No	Negative impacts description	NA
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$9,622,000	% Nature-Based	5%	Issues	None identified at this time
Recurring costs	$1,000	BCR	0.1		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	Caldwell County Boggy Creek Channel Improvements Near SH 142
FMP ID	11-52-0000000082
Sponsor Entity ID	00-01-0000000016
Sponsor Name	Caldwell County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Channel
FMP Description	Channel improvements to reduce residential/commercial flooding near SH142
County	Caldwell
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.47
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	2
Population at risk	4	Structures at risk	2	Critical facilities	0
Farm/Ranch land impacted (acres)	30.88	Roadway(s) impacted (length)	0.07		
Number of low water crossings	0	Historical road closures	0		

100-Year Flood Risk Reduction

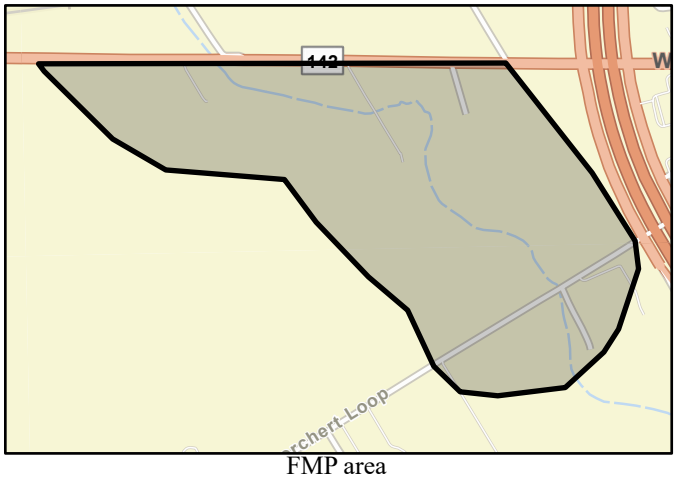
Population removed	4	Structures removed	2	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	30.88	Roadways removed (miles)	0.07
Low water crossing removed	0			Reduction in road closures over 10 years	0
Other benefits	None			Residential removed	2

Impacts

Negative impact?	No	Negative impacts description	NA
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$6,113,000	% Nature-Based	5%	Issues	None identified at this time
Recurring costs	$1,000	BCR	0.1		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE
REGIONAL FLOOD PLANNING GROUP

Title	Caldwell County Boggy Creek Road (CR 218) and Clear Fork Plum Creek
FMP ID	11-52-0000000083
Sponsor Entity ID	00-01-0000000016
Sponsor Name	Caldwell County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	LWC upgrade
FMP Description	Caldwell County Boggy Creek (CR 218) and Clear Fork Plum Creek
County	Caldwell
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.42
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	0
Population at risk	0	Structures at risk	0	Critical facilities	0
Farm/Ranch land impacted (acres)	41.44	Roadway(s) impacted (length)	0.27		
Number of low water crossings	0	Historical road closures	0		

100-Year Flood Risk Reduction

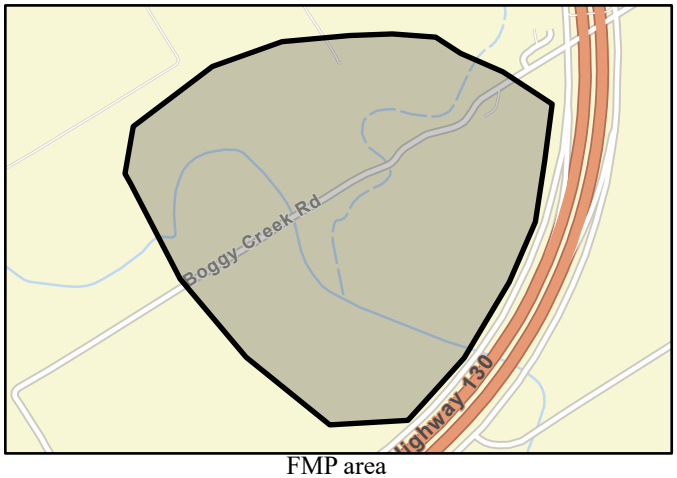
Population removed	0	Structures removed	0	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	41.44	Roadways removed (miles)	0.27
Low water crossing removed	0			Reduction in road closures over 10 years	0
Other benefits	Reduces severity and frequeny of flooding at 2 low water crossings on CR 218			Residential removed	0

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$7,836,000	% Nature-Based	5%	Issues	None identified at this time
Recurring costs	$1,000	BCR	0		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE
REGIONAL FLOOD PLANNING GROUP

Title	Caldwell County Rocky Rd (CR 227) @ Brushy Creek
FMP ID	11-52-0000000084
Sponsor Entity ID	00-01-0000000016
Sponsor Name	Caldwell County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	LWC upgrade
FMP Description	Upgrade existing low water crossing to include box culverts and channel improvements
County	Caldwell
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.77
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	No	Playa?	No	Other?	No

Known lives lost in study area	1	Emergency facilities at risk	0	Residential at risk	0
Population at risk	0	Structures at risk	0	Critical facilities	0
Farm/Ranch land impacted (acres)	46.49	Roadway(s) impacted (length)	0.36		
Number of low water crossings	1	Historical road closures	0		

100-Year Flood Risk Reduction

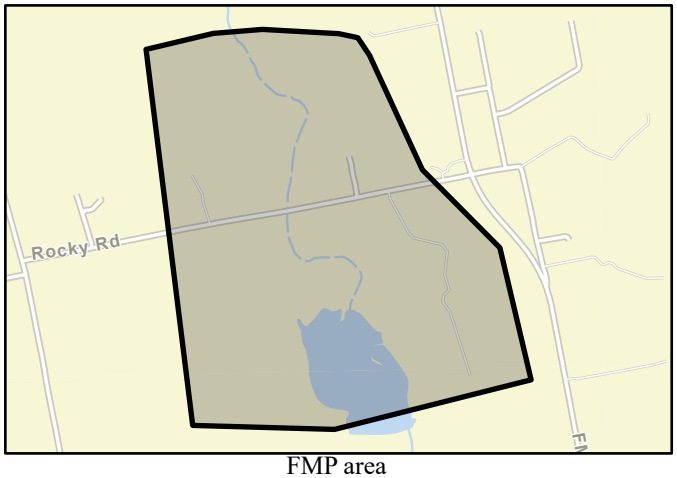
Population removed	0	Structures removed	0	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	46.49	Roadways removed (miles)	0.36
Low water crossing removed	1			Reduction in road closures over 10 years	0
Other benefits	Reduces severity and frequency of flooding on CR 227			Residential removed	0

Impacts

Negative impact?	No	Negative impacts description	NA
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$3,504,000	% Nature-Based	5%	Issues	None identified at this time
Recurring costs	$1,000	BCR	2.3		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE
REGIONAL FLOOD PLANNING GROUP

Title	City of Kerrville First Street Low Water Crossing
FMP ID	11-52-0000000085
Sponsor Entity ID	11-01-0000002585
Sponsor Name	Kerrville (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	LWC upgrade
FMP Description	8-12' x 8' box culverts, channel improvements, and road raise
County	Kerr
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.05
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	53
Population at risk	111	Structures at risk	54	Critical facilities	0
Farm/Ranch land impacted (acres)	0	Roadway(s) impacted (length)	0.51		
Number of low water crossings	1	Historical road closures	0		

100-Year Flood Risk Reduction

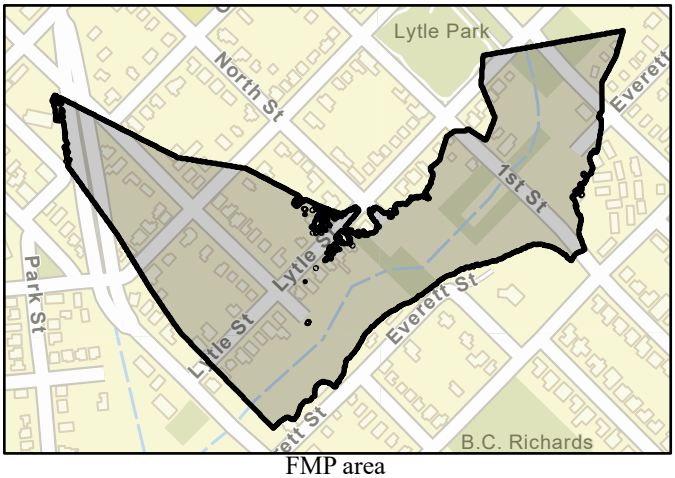
Population removed	111	Structures removed	54	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	0	Roadways removed (miles)	0.51
Low water crossing removed	1			Reduction in road closures over 10 years	0
Other benefits	None			Residential removed	53

Impacts

Negative impact?	No	Negative impacts description	NA
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$9,467,000	% Nature-Based	0.9%	Issues	None identified at this time
Recurring costs	$1,000	BCR	0.1		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	City of Kerrville Fourth Street Low Water Crossing
FMP ID	11-52-0000000086
Sponsor Entity ID	11-01-0000002585
Sponsor Name	Kerrville (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	LWC upgrade
FMP Description	7-12' x 8' box culverts, channel improvements, and road raise
County	Kerr
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.02
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	19
Population at risk	43	Structures at risk	20	Critical facilities	0
Farm/Ranch land impacted (acres)	0	Roadway(s) impacted (length)	0.2		
Number of low water crossings	1	Historical road closures	0		

100-Year Flood Risk Reduction

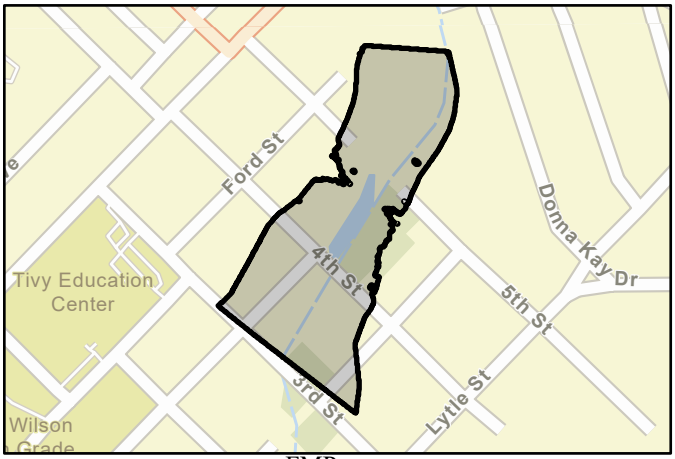
Population removed	41	Structures removed	19	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	0	Roadways removed (miles)	0.2
Low water crossing removed	1			Reduction in road closures over 10 years	0
Other benefits	None			Residential removed	18

Impacts

Negative impact?	No	Negative impacts description	NA
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$5,392,000	% Nature-Based	1.1%	Issues	None identified at this time
Recurring costs	$1,000	BCR	0.1		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE
REGIONAL FLOOD PLANNING GROUP

Title	City of New Braunfels Nacogdoches and Faust Drainage Improvements
FMP ID	11-52-0000000087
Sponsor Entity ID	00-01-0000002670
Sponsor Name	New Braunfels (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Storm Drain
FMP Description	This project involves expanding and adding drainage infrastructure to Faust Avenue and Nacogdoches Avenue to improve runoff collection through a storm sewer to outfall to the Guadalupe River.
County	Comal
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.01
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	0
Population at risk	0	Structures at risk	0	Critical facilities	0
Farm/Ranch land impacted (acres)	0	Roadway(s) impacted (length)	0		
Number of low water crossings	1	Historical road closures	1		

100-Year Flood Risk Reduction

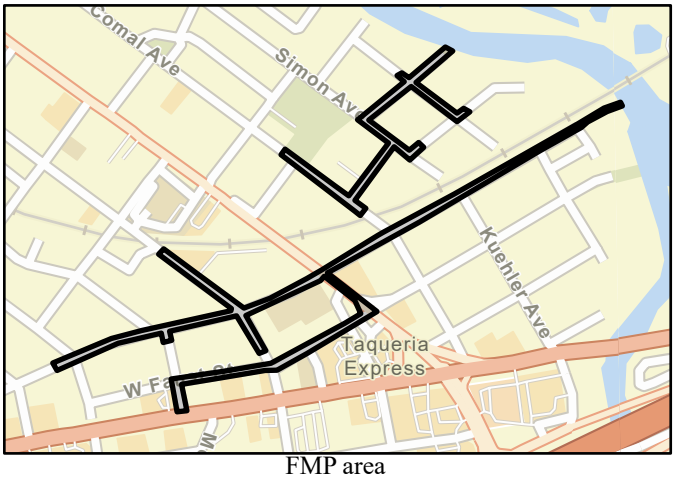
Population removed	0	Structures removed	0	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	0	Roadways removed (miles)	0
Low water crossing removed	0			Reduction in road closures over 10 years	1
Other benefits	None			Residential removed	0

Impacts

Negative impact?	No	Negative impacts description	NA
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$18,380,000	% Nature-Based	2.5%	Issues	ROW, permitting, utility relocations
Recurring costs	$1,000	BCR	0.8		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE
REGIONAL FLOOD PLANNING GROUP

Title	City of New Braunfels Castell Avenue Phase 1 Drainage Improvements
FMP ID	11-52-0000000088
Sponsor Entity ID	00-01-0000002670
Sponsor Name	New Braunfels (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Storm Drain
FMP Description	The project proposes inlets and pipes to collect storm water runoff along Castell Avenue and a large 10x8 storm box extension to outfall into the Guadalupe River along Coll Street.
County	Comal
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.01
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	0
Population at risk	0	Structures at risk	0	Critical facilities	0
Farm/Ranch land impacted (acres)	0	Roadway(s) impacted (length)	0.02		
Number of low water crossings	0	Historical road closures	1		

100-Year Flood Risk Reduction

Population removed	0	Structures removed	0	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	0	Roadways removed (miles)	0.02
Low water crossing removed	0			Reduction in road closures over 10 years	1
Other benefits	None			Residential removed	0

Impacts

Negative impact?	No	Negative impacts description	NA
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$6,732,000	% Nature-Based	0%	Issues	ROW, permitting, utility relocations
Recurring costs	$1,000	BCR	0.4		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	City of San Marcos McKie Street at Willow Springs Creek Improvements
FMP ID	11-52-0000000090
Sponsor Entity ID	11-01-0000003163
Sponsor Name	San Marcos (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	LWC upgrade
FMP Description	LWC Upgrade (4-8'x6' RCBs, raise road 3') and Channel Improvements (500LF)
County	Hays
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.01
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	0
Population at risk	0	Structures at risk	0	Critical facilities	0
Farm/Ranch land impacted (acres)	0	Roadway(s) impacted (length)	0.14		
Number of low water crossings	0	Historical road closures	40		

100-Year Flood Risk Reduction

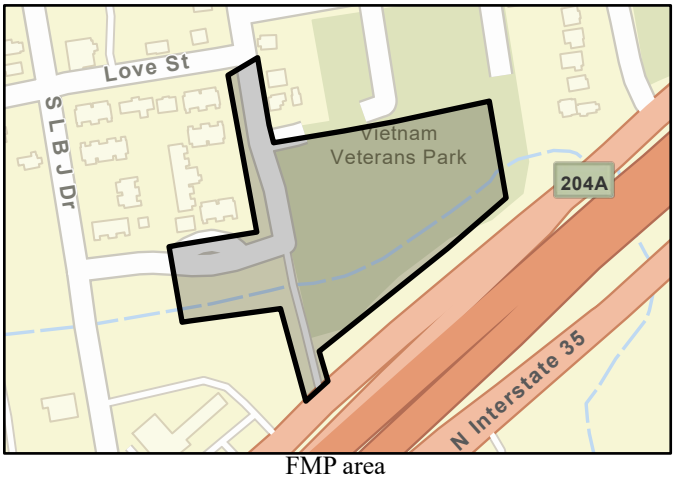
Population removed	0	Structures removed	0	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	0	Roadways removed (miles)	0.14
Low water crossing removed	0			Reduction in road closures over 10 years	25
Other benefits	Transportation - may allow for connectivity of existing bike paths			Residential removed	0

Impacts

Negative impact?	No	Negative impacts description	NA
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$1,044,000	% Nature-Based	3.5%	Issues	Environmental Permitting, Utility Relocations
Recurring costs	$1,000	BCR	2.4		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	Site 1: Blieders Creek Diversion
FMP ID	11-52-0000000096
Sponsor Entity ID	00-01-0000002670
Sponsor Name	New Braunfels (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Infrastructure
FMP Description	The proposed flood mitigation strategy includes diverting 1,700 cfs from Blieders Creek into Guadalupe Tributary 3 using five 7'x5' RCB culverts, clearing 2,880 feet of channel vegetation, expanding sections of Guadalupe Tributary 3 to a 40–50 foot bottom
County	Comal
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	1.79
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	189
Population at risk	841	Structures at risk	271	Critical facilities	0
Farm/Ranch land impacted (acres)	12.51	Roadway(s) impacted (length)	6.1		
Number of low water crossings	5	Historical road closures	29		

100-Year Flood Risk Reduction

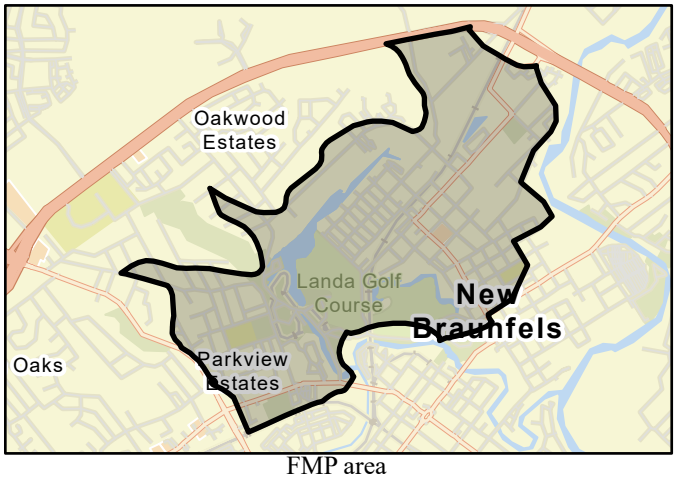
Population removed	840	Structures removed	270	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	12.51	Roadways removed (miles)	6.1
Low water crossing removed	5			Reduction in road closures over 10 years	3
Other benefits	Not Applicable			Residential removed	188

Impacts

Negative impact?	No	Negative impacts description	NA
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$20,072,700	% Nature-Based	0%	Issues	None identified at this time
Recurring costs	$5,000	BCR	0.1		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	Washington Street Drainage Improvements
FMP ID	11-52-0000000097
Sponsor Entity ID	11-01-0000002616
Sponsor Name	Seguin (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Storm Drain
FMP Description	New underground system along Camp Street with two outfalls, one at Donegan Street and another at Shelby. System designed to convey the 25-yr storm event with full roadway reconstruction, sidewalks, and driveways.
County	Guadalupe
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.06
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	0
Population at risk	3	Structures at risk	1	Critical facilities	0
Farm/Ranch land impacted (acres)	0	Roadway(s) impacted (length)	0		
Number of low water crossings	0	Historical road closures	1		

100-Year Flood Risk Reduction

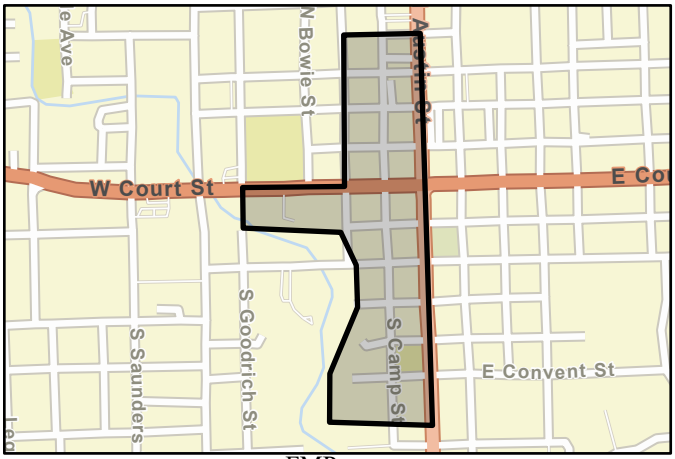
Population removed	3	Structures removed	1	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	0	Roadways removed (miles)	0
Low water crossing removed	0			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	0

Impacts

Negative impact?	No	Negative impacts description	NA
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$3,880,000	% Nature-Based	0%	Issues	None identified at this time
Recurring costs	$0	BCR	0.3		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	Walnut Branch Channel Modification
FMP ID	11-52-0000000098
Sponsor Entity ID	11-01-0000002616
Sponsor Name	Seguin (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Channel
FMP Description	Design and construction alternatives for failures of existing bank stabilization measure at Walnut Springs Park.
County	Guadalupe
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	147.08
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	4	Residential at risk	1,551
Population at risk	4,084	Structures at risk	2,001	Critical facilities	12
Farm/Ranch land impacted (acres)	4,397.23	Roadway(s) impacted (length)	50.69		
Number of low water crossings	53	Historical road closures	1		

100-Year Flood Risk Reduction

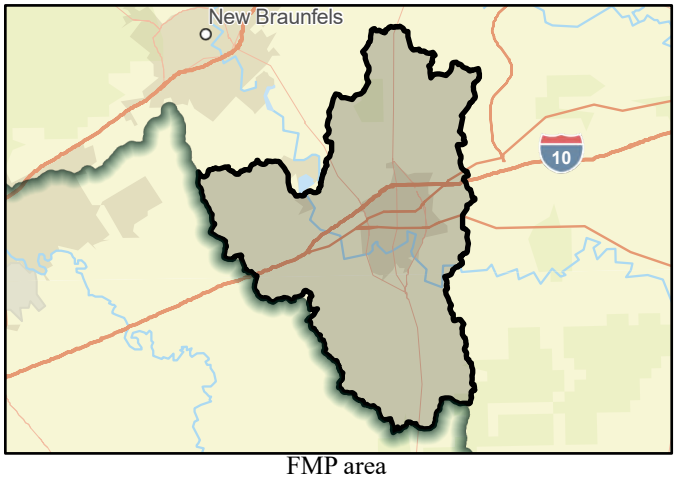
Population removed	4,084	Structures removed	2,000	Critical facilities removed	12
Emergency facilities removed	4	Farm/ranch removed	4,397.23	Roadways removed (miles)	50.69
Low water crossing removed	40			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	1,551

Impacts

Negative impact?	No	Negative impacts description	NA
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$3,115,000	% Nature-Based	0%	Issues	None identified at this time
Recurring costs	$0	BCR	4.8		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	Tinsley Creek Bridge Projects
FMP ID	11-52-0000000099
Sponsor Entity ID	11-01-0000002992
Sponsor Name	Gonzales (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets Minimum TWDB Requirement

FMP Details

FMP Type	LWC upgrade
FMP Description	Tinsley Creek Bridge Projects
County	Gonzales
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	6.06
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	1	Residential at risk	291
Population at risk	667	Structures at risk	401	Critical facilities	1
Farm/Ranch land impacted (acres)	140.88	Roadway(s) impacted (length)	11.08		
Number of low water crossings	5	Historical road closures	0		

100-Year Flood Risk Reduction

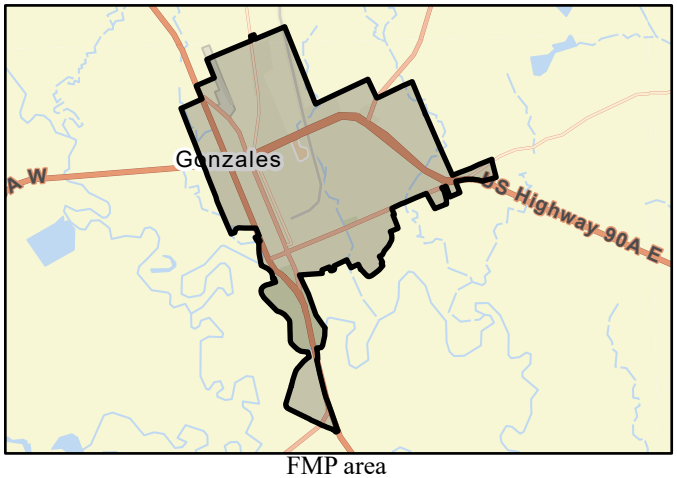
Population removed	667	Structures removed	401	Critical facilities removed	1
Emergency facilities removed	1	Farm/ranch removed	140.88	Roadways removed (miles)	11.08
Low water crossing removed	5			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	291

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	-	Water supply contribution	-

Estimated Cost

Total FMP Cost	$500,000	% Nature-Based	0%	Issues	None identified at this time
Recurring costs	$1,000	BCR	0		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	Site 3: Alligator Creek Tributary 4 - Pond
FMP ID	11-52-0000000101
Sponsor Entity ID	00-01-0000002670
Sponsor Name	New Braunfels (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Comprehensive
FMP Description	A 1,660-ft-long, 30-ft-high dam on Alligator Creek Tributary 4 will provide 802 ac-ft of storage across 56 acres with a 5-ft RCP and 950-ft weir, reducing downstream flooding. About 605,000 cubic yards of material will be excavated.
County	Comal
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	45.41
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	4	Residential at risk	1,378
Population at risk	7,199	Structures at risk	1,947	Critical facilities	7
Farm/Ranch land impacted (acres)	450.32	Roadway(s) impacted (length)	40.95		
Number of low water crossings	27	Historical road closures	0		

100-Year Flood Risk Reduction

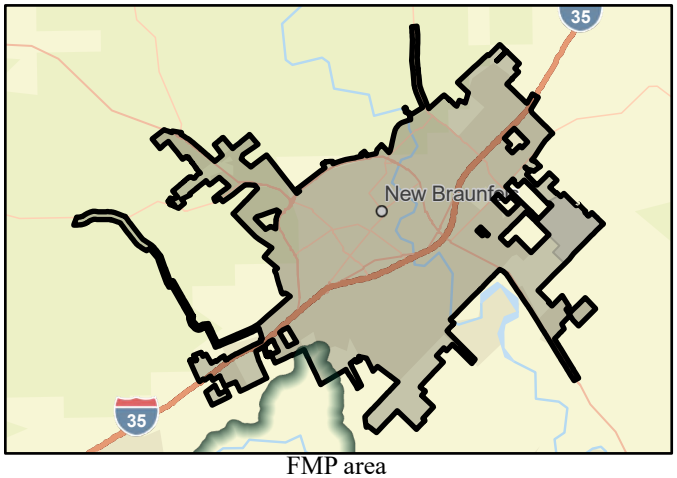
Population removed	7,185	Structures removed	1,943	Critical facilities removed	7
Emergency facilities removed	4	Farm/ranch removed	450.32	Roadways removed (miles)	40.95
Low water crossing removed	22			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	1,375

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	-	Water supply contribution	-

Estimated Cost

Total FMP Cost	$45,914,200	% Nature-Based	0%	Issues	None identified at this time
Recurring costs	$5,000	BCR	0		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE
REGIONAL FLOOD PLANNING GROUP

Title	Site 4: Alligator Creek Tributary 6 - Pond
FMP ID	11-52-0000000102
Sponsor Entity ID	00-01-0000002670
Sponsor Name	New Braunfels (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Comprehensive
FMP Description	A 1,555-ft-long, 23-ft-high dam on Alligator Creek Tributary 6 will store 394 ac-ft across 68 acres. Discharge will be controlled by a 5-ft RCP and 1,000-ft weir, reducing downstream flood risk through managed stormwater release.
County	Comal
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	45.41
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	4	Residential at risk	1,378
Population at risk	7,199	Structures at risk	1,947	Critical facilities	7
Farm/Ranch land impacted (acres)	450.32	Roadway(s) impacted (length)	40.95		
Number of low water crossings	27	Historical road closures	0		

100-Year Flood Risk Reduction

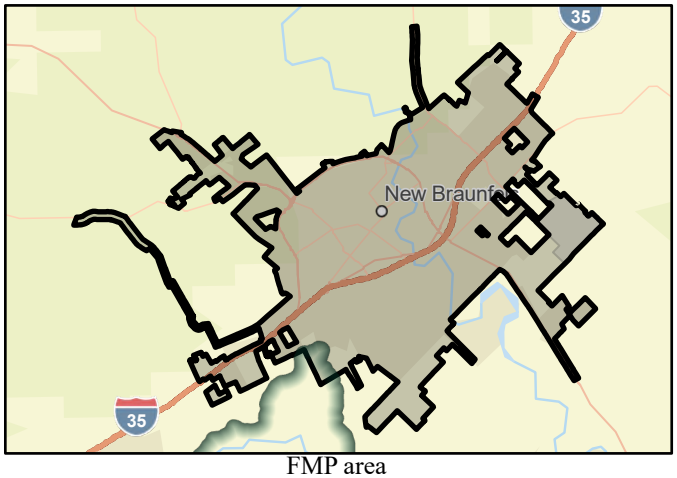
Population removed	7,185	Structures removed	1,943	Critical facilities removed	7
Emergency facilities removed	4	Farm/ranch removed	450.32	Roadways removed (miles)	40.95
Low water crossing removed	22			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	1,375

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	-	Water supply contribution	-

Estimated Cost

Total FMP Cost	$46,214,100	% Nature-Based	0%	Issues	None identified at this time
Recurring costs	$5,000	BCR	0		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	Site 5: Blieders Creek SCS Dam #3 Storage Increase
FMP ID	11-52-0000000103
Sponsor Entity ID	00-01-0000002670
Sponsor Name	New Braunfels (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Dam
FMP Description	Excavation of 5,996 ac-ft upstream of SCS Dam 3 will increase capacity from 3,968 to 8,437 ac-ft. During a 100-year storm, the pool will expand to 445 acres, improving floodwater management and downstream flood protection.
County	Comal
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	45.41
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	4	Residential at risk	1,378
Population at risk	7,199	Structures at risk	1,947	Critical facilities	7
Farm/Ranch land impacted (acres)	450.32	Roadway(s) impacted (length)	40.95		
Number of low water crossings	27	Historical road closures	0		

100-Year Flood Risk Reduction

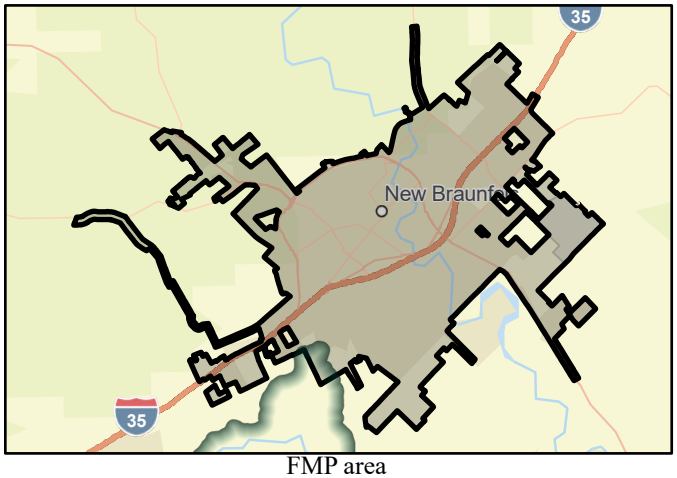
Population removed	7,185	Structures removed	1,943	Critical facilities removed	7
Emergency facilities removed	4	Farm/ranch removed	450.32	Roadways removed (miles)	40.95
Low water crossing removed	22			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	1,375

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	-	Water supply contribution	-

Estimated Cost

Total FMP Cost	$581,045,800	% Nature-Based	0%	Issues	None identified at this time
Recurring costs	$5,000	BCR	0		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	Site 6: Dry Comal River Dams
FMP ID	11-52-0000000104
Sponsor Entity ID	00-01-0000002670
Sponsor Name	New Braunfels (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Dam
FMP Description	Excavation will expand storage for SCS Dams 1, 2, 4, and 5. Dam 1: 11,589 ac-ft, 353 acres. Dam 2: 27,951 ac-ft, 893 acres. Dam 4: 7,979 ac-ft, 249 acres. Dam 5: 1,475 ac-ft, 66 acres. Enhances flood control across multiple basins.
County	Comal
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	45.41
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	4	Residential at risk	1,378
Population at risk	7,199	Structures at risk	1,947	Critical facilities	7
Farm/Ranch land impacted (acres)	450.32	Roadway(s) impacted (length)	40.95		
Number of low water crossings	27	Historical road closures	0		

100-Year Flood Risk Reduction

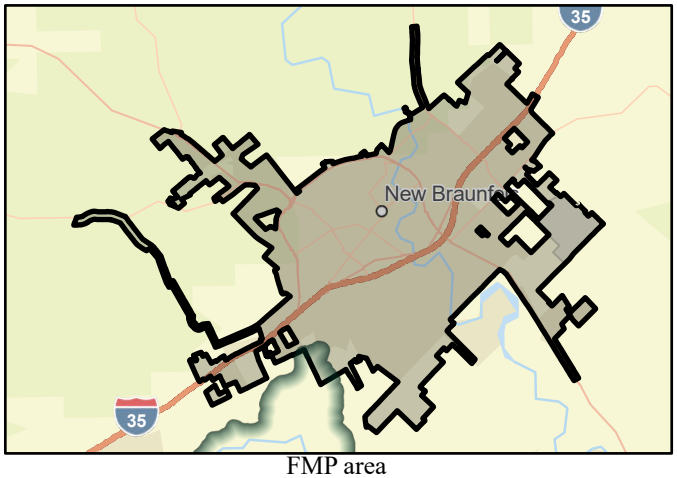
Population removed	7,185	Structures removed	1,943	Critical facilities removed	7
Emergency facilities removed	4	Farm/ranch removed	450.32	Roadways removed (miles)	40.95
Low water crossing removed	22			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	1,375

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	-	Water supply contribution	-

Estimated Cost

Total FMP Cost	$1,586,460,000	% Nature-Based	0%	Issues	None identified at this time
Recurring costs	$5,000	BCR	0		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	Site 7: Guadalupe Tributary 20 Diversion
FMP ID	11-52-0000000105
Sponsor Entity ID	00-01-0000002670
Sponsor Name	New Braunfels (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Detention Pond
FMP Description	An inline detention pond on Guadalupe Tributary 20 will control flooding by excavating 59,400 cubic yards and adding a flow diversion with four 6'x6' RCBs to divert up to 1,000 cfs to the Guadalupe River under regulated discharge.
County	Comal
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	45.41
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	4	Residential at risk	1,378
Population at risk	7,199	Structures at risk	1,947	Critical facilities	7
Farm/Ranch land impacted (acres)	450.32	Roadway(s) impacted (length)	40.95		
Number of low water crossings	27	Historical road closures	0		

100-Year Flood Risk Reduction

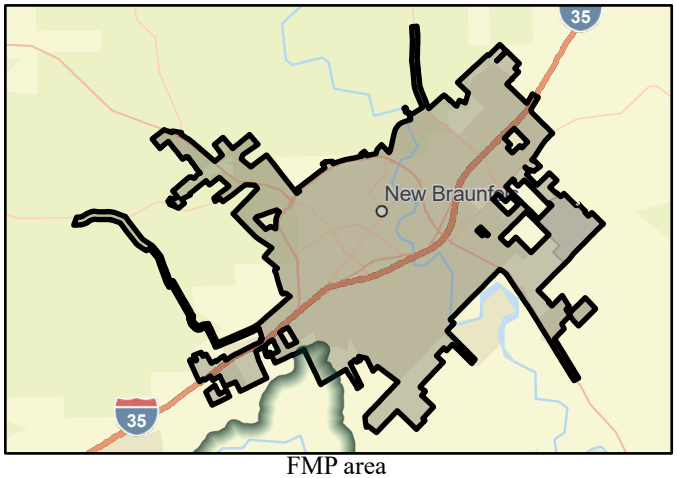
Population removed	7,185	Structures removed	1,943	Critical facilities removed	7
Emergency facilities removed	4	Farm/ranch removed	450.32	Roadways removed (miles)	40.95
Low water crossing removed	22			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	1,375

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	-	Water supply contribution	-

Estimated Cost

Total FMP Cost	$24,880,700	% Nature-Based	0%	Issues	None identified at this time
Recurring costs	$5,000	BCR	0.11		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE
REGIONAL FLOOD PLANNING GROUP

Title	Site 8: Dry Comal Tributary 4 Improvements
FMP ID	11-52-0000000106
Sponsor Entity ID	00-01-0000002670
Sponsor Name	New Braunfels (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Detention Pond
FMP Description	Three inline detention ponds along Dry Comal Tributary 4 will detain runoff and regulate flow to FM 482. Excavation totals 264,736 cu yd. Ponds connect via 24-inch RCPs to balance flows, with Pond 3 discharging through twin 24-inch RCPs.
County	Comal
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	45.41
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	4	Residential at risk	1,378
Population at risk	7,199	Structures at risk	1,947	Critical facilities	7
Farm/Ranch land impacted (acres)	450.32	Roadway(s) impacted (length)	40.95		
Number of low water crossings	27	Historical road closures	0		

100-Year Flood Risk Reduction

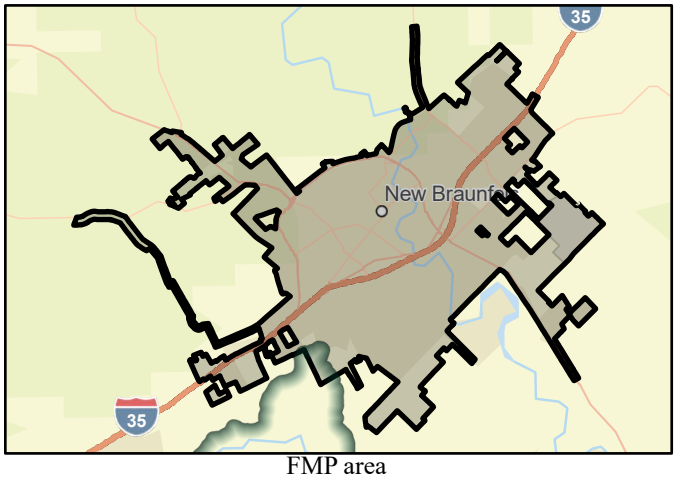
Population removed	7,185	Structures removed	1,943	Critical facilities removed	7
Emergency facilities removed	4	Farm/ranch removed	450.32	Roadways removed (miles)	40.95
Low water crossing removed	22			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	1,375

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	-	Water supply contribution	-

Estimated Cost

Total FMP Cost	$15,579,200	% Nature-Based	0%	Issues	None identified at this time
Recurring costs	$5,000	BCR	0		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	Goforth LWC
FMP ID	11-52-0000000107
Sponsor Entity ID	00-01-0000002800
Sponsor Name	Kyle (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	LWC upgrade
FMP Description	Rehabilitation of 2 culverts on Goforth Road to alleviate localized flooding.
County	Hays
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	31.15
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	188
Population at risk	571	Structures at risk	209	Critical facilities	0
Farm/Ranch land impacted (acres)	698.17	Roadway(s) impacted (length)	5.77		
Number of low water crossings	10	Historical road closures	0		

100-Year Flood Risk Reduction

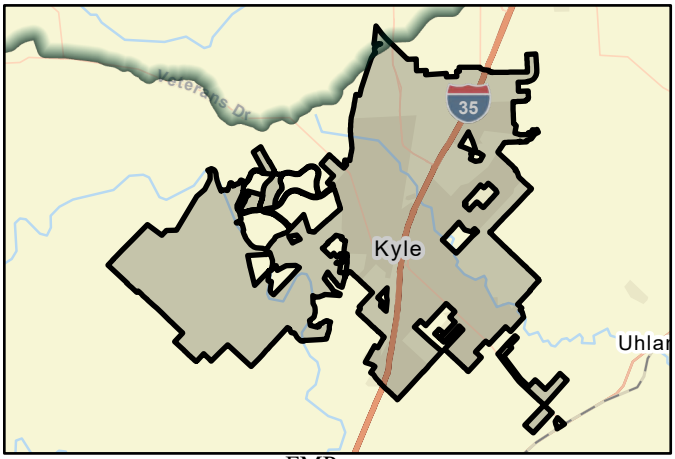
Population removed	571	Structures removed	208	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	698.17	Roadways removed (miles)	5.77
Low water crossing removed	9			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	187

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	-	Water supply contribution	-

Estimated Cost

Total FMP Cost	$300,000	% Nature-Based	0%	Issues	None identified at this time
Recurring costs	$1,000	BCR	0		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	Live Oak Street Drainage
FMP ID	11-52-0000000108
Sponsor Entity ID	00-01-0000002800
Sponsor Name	Kyle (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets Minimum TWDB Requirement

FMP Details

FMP Type	Channel
FMP Description	In downtown Kyle, Live Oak Street experiences localized flooding. Culvert improvement and channel improvement are proposed to alleviate localized flooding.
County	Hays
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	31.15
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	188
Population at risk	571	Structures at risk	209	Critical facilities	0
Farm/Ranch land impacted (acres)	698.17	Roadway(s) impacted (length)	5.77		
Number of low water crossings	10	Historical road closures	0		

100-Year Flood Risk Reduction

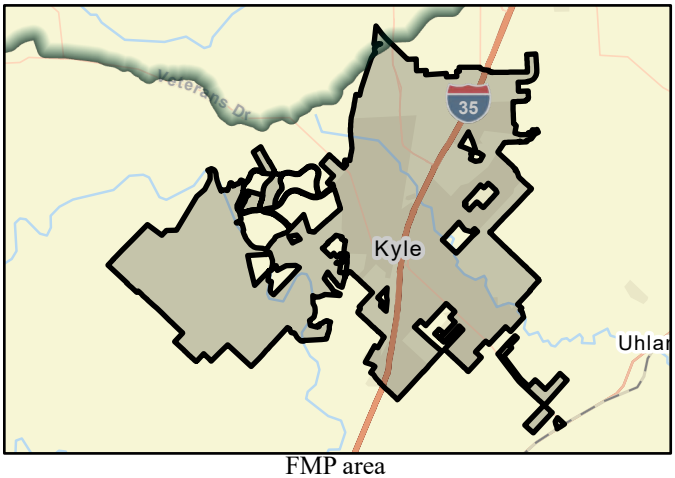
Population removed	571	Structures removed	208	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	698.17	Roadways removed (miles)	5.77
Low water crossing removed	9			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	187

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	-	Water supply contribution	-

Estimated Cost

Total FMP Cost	$150,000	% Nature-Based	0%	Issues	None identified at this time
Recurring costs	$1,000	BCR	0		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE
REGIONAL FLOOD PLANNING GROUP

Title	Moreno Street and Jose Addition
FMP ID	11-52-0000000109
Sponsor Entity ID	00-01-0000002800
Sponsor Name	Kyle (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	LWC upgrade
FMP Description	In downtown Kyle, Moreno Street near the railroad experiences localized flooding. Culvert additions and detention are proposed to alleviate localized flooding.
County	Hays
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	31.15
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	188
Population at risk	571	Structures at risk	209	Critical facilities	0
Farm/Ranch land impacted (acres)	698.17	Roadway(s) impacted (length)	5.77		
Number of low water crossings	10	Historical road closures	0		

100-Year Flood Risk Reduction

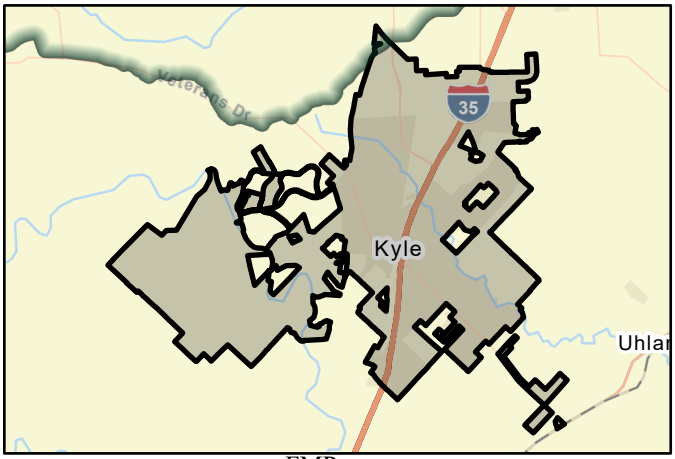
Population removed	571	Structures removed	208	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	698.17	Roadways removed (miles)	5.77
Low water crossing removed	9			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	187

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	-	Water supply contribution	-

Estimated Cost

Total FMP Cost	$150,000	% Nature-Based	0%	Issues	None identified at this time
Recurring costs	$1,000	BCR	0		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	City of New Braunfels Drainage Master Plan
FMP ID	11-52-0000000110
Sponsor Entity ID	00-01-0000002670
Sponsor Name	New Braunfels (Municipality)
RFPG Recommended?	No
Reason for Recommendation	Project is complete

FMP Details

FMP Type	Comprehensive
FMP Description	The city was awarded Flood Infrastructure Funding in 2020 (FIF) to produce updated regional flood risk models and recommend potential flood risk reduction solutions. These models include Atlas 14 rainfall.
County	Comal
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	45.41
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	4	Residential at risk	1,378
Population at risk	7,199	Structures at risk	1,947	Critical facilities	7
Farm/Ranch land impacted (acres)	450.32	Roadway(s) impacted (length)	40.95		
Number of low water crossings	27	Historical road closures	0		

100-Year Flood Risk Reduction

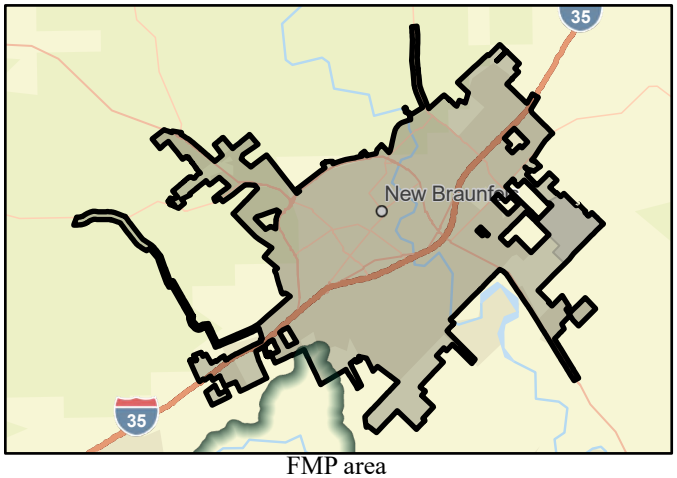
Population removed	7,185	Structures removed	1,943	Critical facilities removed	7
Emergency facilities removed	4	Farm/ranch removed	450.32	Roadways removed (miles)	40.95
Low water crossing removed	22			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	1,375

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	-	Water supply contribution	-

Estimated Cost

Total FMP Cost	$1,106,781	% Nature-Based	0%	Issues	None identified at this time
Recurring costs	$0	BCR	0		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	City of Gonzales - Detetion Pond
FMP ID	11-52-0000000111
Sponsor Entity ID	11-01-0000002992
Sponsor Name	Gonzales (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets Minimum TWDB Requirement

FMP Details

FMP Type	Infrastructure
FMP Description	Detention pond placed upstream of Johnson Street and adjacent to Tinsley Creek
County	Gonzales
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.17
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	101
Population at risk	166	Structures at risk	130	Critical facilities	0
Farm/Ranch land impacted (acres)	0	Roadway(s) impacted (length)	2.24		
Number of low water crossings	5	Historical road closures	0		

100-Year Flood Risk Reduction

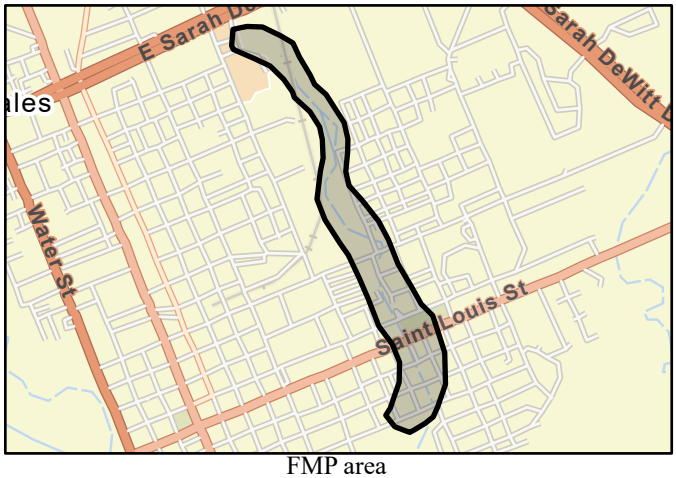
Population removed	166	Structures removed	130	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	0	Roadways removed (miles)	2.24
Low water crossing removed	5			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	101

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$16,000,000	% Nature-Based	25%	Issues	None identified at this time
Recurring costs	$6,000	BCR	0.5		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	City of Westhoff - Home Elevations
FMP ID	11-52-0000000112
Sponsor Entity ID	00-01-0000000099
Sponsor Name	DeWitt County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets Minimum TWDB Requirement

FMP Details

FMP Type	Property Elevation
FMP Description	Elevation of residential structures in City of Westhoff to BFE+1
County	DeWitt
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.01
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	No	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	1
Population at risk	16	Structures at risk	3	Critical facilities	0
Farm/Ranch land impacted (acres)	0.03	Roadway(s) impacted (length)	0		
Number of low water crossings	0	Historical road closures	0		

100-Year Flood Risk Reduction

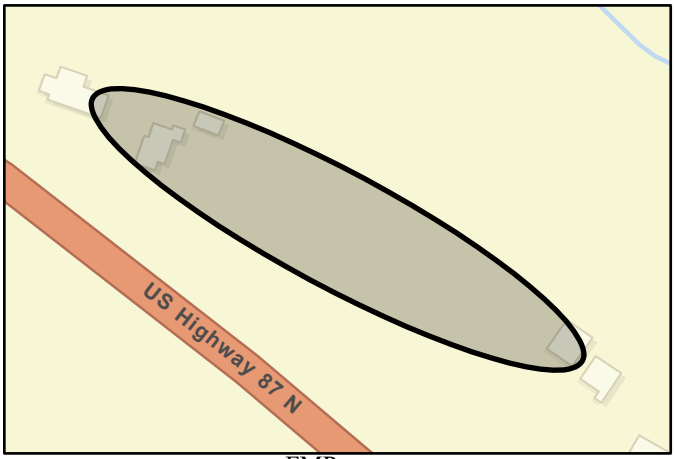
Population removed	16	Structures removed	3	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	0.03	Roadways removed (miles)	0
Low water crossing removed	0			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	1

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$1,000,000	% Nature-Based	25%	Issues	None identified at this time
Recurring costs	$0	BCR	0.4		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	City of Westhoff - Detention and Channel Improvements along Clear Creek and US HWY 87
FMP ID	11-52-0000000113
Sponsor Entity ID	00-01-0000000099
Sponsor Name	DeWitt County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets Minimum TWDB Requirement

FMP Details

FMP Type	Comprehensive
FMP Description	Detention & Channel Improvements south of the City of Westhoff (MA28 of TxGLO RBFS West Region Alternative Analysis Study)
County	DeWitt
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.32
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	No	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	0
Population at risk	0	Structures at risk	0	Critical facilities	0
Farm/Ranch land impacted (acres)	107.7	Roadway(s) impacted (length)	0.53		
Number of low water crossings	0	Historical road closures	0		

100-Year Flood Risk Reduction

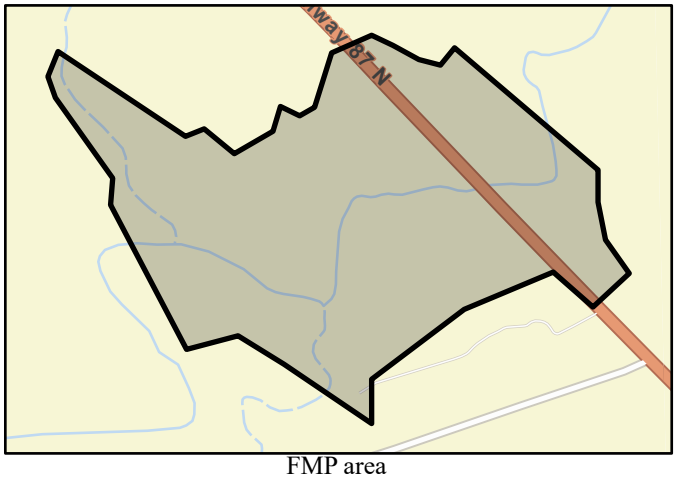
Population removed	0	Structures removed	0	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	107.7	Roadways removed (miles)	0.53
Low water crossing removed	0			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	0

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$17,469,000	% Nature-Based	25%	Issues	None identified at this time
Recurring costs	$2,500	BCR	0.2		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	City of Westhoff - Detention and Channel Improvements along Birds Creek and US HWY 87
FMP ID	11-52-0000000114
Sponsor Entity ID	00-01-0000000099
Sponsor Name	DeWitt County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets Minimum TWDB Requirement

FMP Details

FMP Type	Comprehensive
FMP Description	Detention & Channel Improvements west of the City of Westhoff (MA29 of TxGLO RBFS West Region Alternative Analysis Study)
County	DeWitt
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.05
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	No	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	0
Population at risk	0	Structures at risk	0	Critical facilities	0
Farm/Ranch land impacted (acres)	25.95	Roadway(s) impacted (length)	0.13		
Number of low water crossings	0	Historical road closures	0		

100-Year Flood Risk Reduction

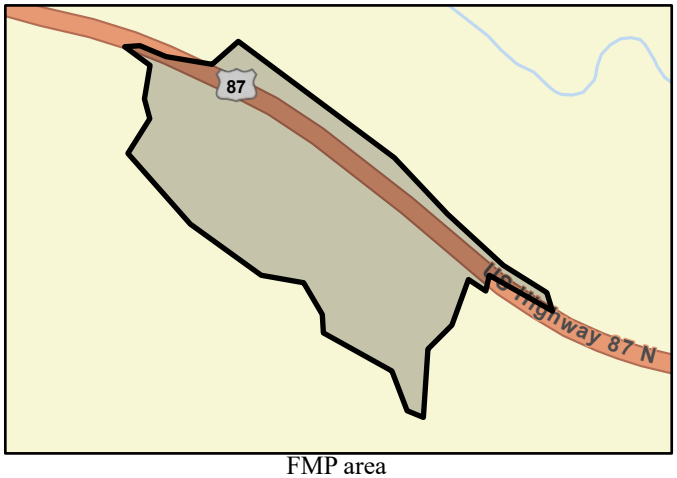
Population removed	0	Structures removed	0	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	25.95	Roadways removed (miles)	0.13
Low water crossing removed	0			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	0

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$600,000	% Nature-Based	25%	Issues	None identified at this time
Recurring costs	$0	BCR	0		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	City of Yorktown - Conveyance Improvements along Yorktown Creek
FMP ID	11-52-0000000115
Sponsor Entity ID	11-01-0000002722
Sponsor Name	Yorktown (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets Minimum TWDB Requirement

FMP Details

FMP Type	Comprehensive
FMP Description	Conveyance Improvement to Yorktown creek through Channel excavation, Dam removal, and Upsizing two bridges along Yorktown.
County	DeWitt
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.51
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	13	Residential at risk	208
Population at risk	684	Structures at risk	267	Critical facilities	13
Farm/Ranch land impacted (acres)	12.67	Roadway(s) impacted (length)	5.4		
Number of low water crossings	0	Historical road closures	0		

100-Year Flood Risk Reduction

Population removed	684	Structures removed	267	Critical facilities removed	13
Emergency facilities removed	13	Farm/ranch removed	12.67	Roadways removed (miles)	5.4
Low water crossing removed	0			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	208

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$15,750,000	% Nature-Based	25%	Issues	None identified at this time
Recurring costs	$2,500	BCR	1.7		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE
REGIONAL FLOOD PLANNING GROUP

Title	City of Victoria - Structural Elevation
FMP ID	11-52-0000000116
Sponsor Entity ID	00-01-0000002428
Sponsor Name	Victoria (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets Minimum TWDB Requirement

FMP Details

FMP Type	Property Elevation
FMP Description	Elevation of residential structures in City of Victoria to BFE+1.
County	Victoria
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	1.05
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	51
Population at risk	596	Structures at risk	92	Critical facilities	0
Farm/Ranch land impacted (acres)	18.38	Roadway(s) impacted (length)	4.56		
Number of low water crossings	0	Historical road closures	0		

100-Year Flood Risk Reduction

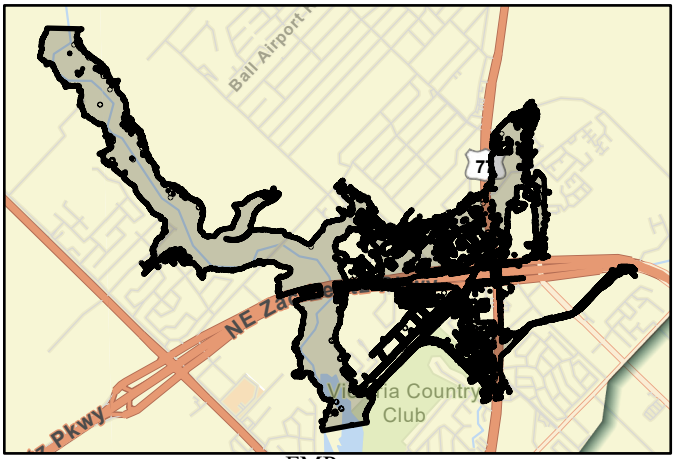
Population removed	596	Structures removed	92	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	18.38	Roadways removed (miles)	4.56
Low water crossing removed	0			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	51

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$4,500,000	% Nature-Based	25%	Issues	None identified at this time
Recurring costs	$0	BCR	0.23		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	City of Cuero - Flume Upgrades with Bridge Replacement
FMP ID	11-52-0000000117
Sponsor Entity ID	11-01-0000002401
Sponsor Name	Cuero (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets Minimum TWDB Requirement

FMP Details

FMP Type	Channel
FMP Description	Upgrade of an existing concrete channel and replacement of a railroad bridge in the City of Cuero.
County	DeWitt
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.18
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	8	Residential at risk	260
Population at risk	1,067	Structures at risk	303	Critical facilities	8
Farm/Ranch land impacted (acres)	0	Roadway(s) impacted (length)	5.16		
Number of low water crossings	0	Historical road closures	0		

100-Year Flood Risk Reduction

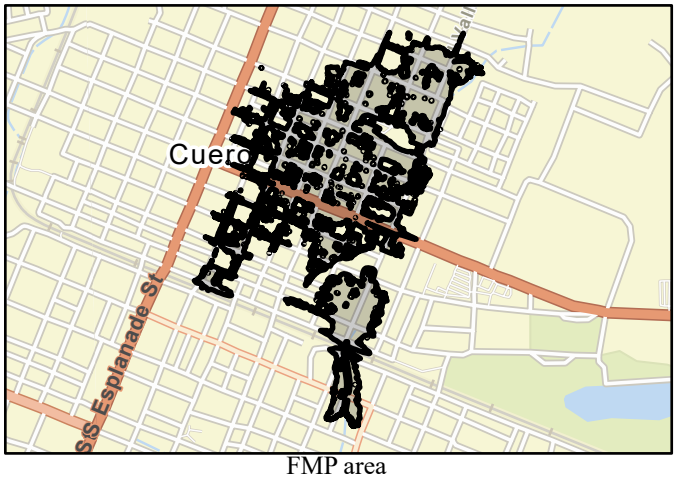
Population removed	1,067	Structures removed	303	Critical facilities removed	8
Emergency facilities removed	8	Farm/ranch removed	0	Roadways removed (miles)	5.16
Low water crossing removed	0			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	260

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$91,000,000	% Nature-Based	25%	Issues	None identified at this time
Recurring costs	$1,000	BCR	0.03		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	Residential Elevations across the Lower San Marcos Watershed
FMP ID	11-52-0000000118
Sponsor Entity ID	11-01-0000003474
Sponsor Name	Luling (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets Minimum TWDB Requirement

FMP Details

FMP Type	Property Elevation
FMP Description	Elevation of residential across the Lower San Marcos Watershed within the watershed's mitigation area to an elevation of BFE+1 foot (MA29 of TxGLO RBFS West Region Alternative Analysis Study)
County	Guadalupe
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.32
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	30
Population at risk	80	Structures at risk	49	Critical facilities	0
Farm/Ranch land impacted (acres)	101.36	Roadway(s) impacted (length)	1.3		
Number of low water crossings	0	Historical road closures	0		

100-Year Flood Risk Reduction

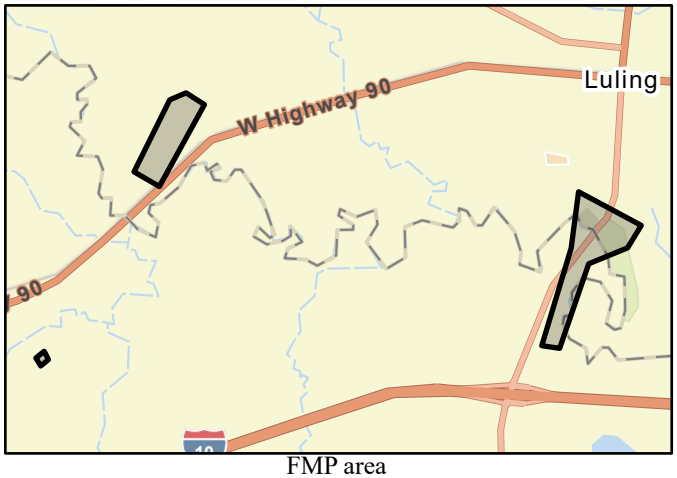
Population removed	80	Structures removed	49	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	101.36	Roadways removed (miles)	1.3
Low water crossing removed	0			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	30

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$2,160,000	% Nature-Based	25%	Issues	None identified at this time
Recurring costs	$0	BCR	1.4		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	City of Waelder - Home Elevation
FMP ID	11-52-0000000119
Sponsor Entity ID	11-01-0000002395
Sponsor Name	Waelder (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets Minimum TWDB Requirement

FMP Details

FMP Type	Property Elevation
FMP Description	Elevation of residential structures in City of Waelder (Gonzales County) to BFE+1
County	Gonzales
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.02
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	18
Population at risk	18	Structures at risk	33	Critical facilities	0
Farm/Ranch land impacted (acres)	0	Roadway(s) impacted (length)	0.57		
Number of low water crossings	0	Historical road closures	0		

100-Year Flood Risk Reduction

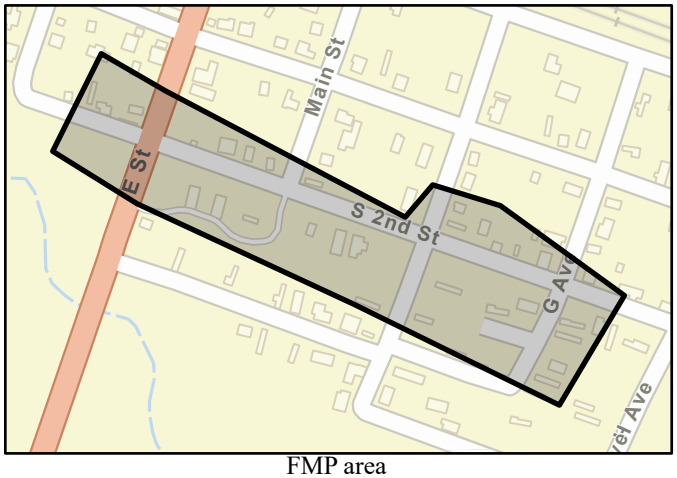
Population removed	18	Structures removed	33	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	0	Roadways removed (miles)	0.57
Low water crossing removed	0			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	18

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$600,000	% Nature-Based	25%	Issues	None identified at this time
Recurring costs	$0	BCR	0.6		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE
REGIONAL FLOOD PLANNING GROUP

Title	Guadalupe County - Home Elevation Zone 1
FMP ID	11-52-0000000121
Sponsor Entity ID	00-01-0000000010
Sponsor Name	Guadalupe County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets Minimum TWDB Requirement

FMP Details

FMP Type	Property Elevation
FMP Description	Elevation of residential structures in Guadalupe County to BFE+1.
County	Guadalupe
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	1.12
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	No	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	1	Residential at risk	608
Population at risk	1,396	Structures at risk	685	Critical facilities	1
Farm/Ranch land impacted (acres)	6.48	Roadway(s) impacted (length)	6.78		
Number of low water crossings	0	Historical road closures	0		

100-Year Flood Risk Reduction

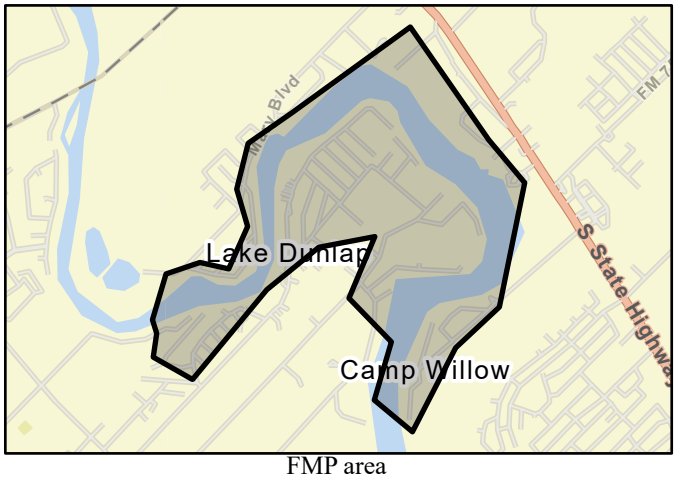
Population removed	1,396	Structures removed	685	Critical facilities removed	1
Emergency facilities removed	1	Farm/ranch removed	6.48	Roadways removed (miles)	6.78
Low water crossing removed	0			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	608

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$24,000,000	% Nature-Based	25%	Issues	None identified at this time
Recurring costs	$0	BCR	1.6		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	Guadalupe County Home Elevation - Zone 2
FMP ID	11-52-0000000122
Sponsor Entity ID	00-01-0000000010
Sponsor Name	Guadalupe County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets Minimum TWDB Requirement

FMP Details

FMP Type	Property Elevation
FMP Description	Elevation of residential structures in Guadalupe County to BFE+1.
County	Guadalupe
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.35
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	No	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	175
Population at risk	472	Structures at risk	186	Critical facilities	0
Farm/Ranch land impacted (acres)	0.07	Roadway(s) impacted (length)	0.44		
Number of low water crossings	0	Historical road closures	0		

100-Year Flood Risk Reduction

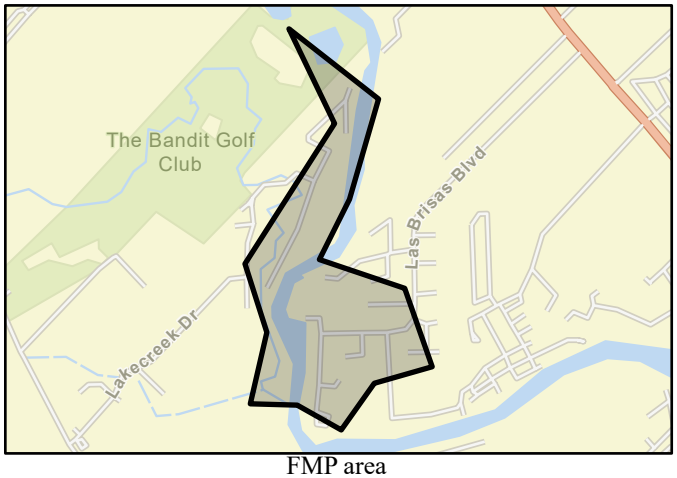
Population removed	472	Structures removed	186	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	0.07	Roadways removed (miles)	0.44
Low water crossing removed	0			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	175

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$8,000,000	% Nature-Based	25%	Issues	None identified at this time
Recurring costs	$0	BCR	1.3		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE
REGIONAL FLOOD PLANNING GROUP

Title	Guadalupe County Home Elevation - Zone 3
FMP ID	11-52-0000000123
Sponsor Entity ID	00-01-0000000010
Sponsor Name	Guadalupe County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets Minimum TWDB Requirement

FMP Details

FMP Type	Property Elevation
FMP Description	Elevation of residential structures in Guadalupe County to BFE+1.
County	Guadalupe
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	2
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	1	Residential at risk	1,166
Population at risk	2,074	Structures at risk	1,259	Critical facilities	2
Farm/Ranch land impacted (acres)	13.19	Roadway(s) impacted (length)	14.02		
Number of low water crossings	2	Historical road closures	0		

100-Year Flood Risk Reduction

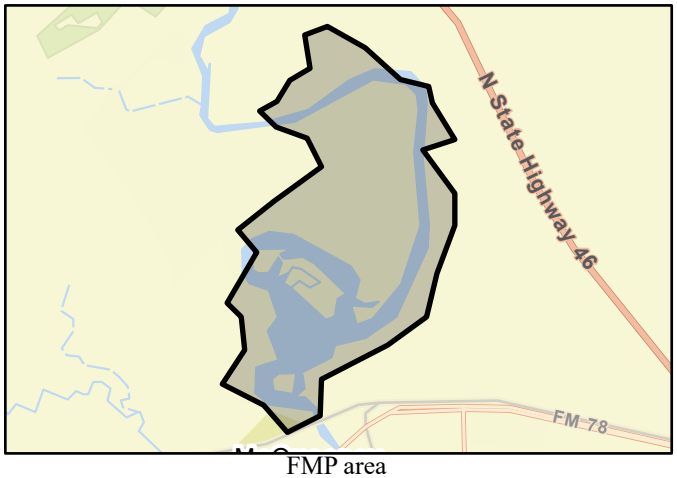
Population removed	2,074	Structures removed	1,259	Critical facilities removed	2
Emergency facilities removed	1	Farm/ranch removed	13.19	Roadways removed (miles)	14.02
Low water crossing removed	2			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	1,166

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$53,000,000	% Nature-Based	25%	Issues	None identified at this time
Recurring costs	$0	BCR	1.5		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	Guadalupe County Home Elevation - Zone 4
FMP ID	11-52-0000000124
Sponsor Entity ID	00-01-0000000010
Sponsor Name	Guadalupe County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets Minimum TWDB Requirement

FMP Details

FMP Type	Property Elevation
FMP Description	Elevation of residential structures in Guadalupe County to BFE+1.
County	Guadalupe
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	1.1
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	411
Population at risk	970	Structures at risk	448	Critical facilities	0
Farm/Ranch land impacted (acres)	12.54	Roadway(s) impacted (length)	6.38		
Number of low water crossings	2	Historical road closures	0		

100-Year Flood Risk Reduction

Population removed	970	Structures removed	448	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	12.54	Roadways removed (miles)	6.38
Low water crossing removed	2			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	411

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$21,000,000	% Nature-Based	25%	Issues	None identified at this time
Recurring costs	$0	BCR	1.5		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE
REGIONAL FLOOD PLANNING GROUP

Title	Guadalupe County Home Elevation - Zone 5
FMP ID	11-52-0000000125
Sponsor Entity ID	11-01-0000002616
Sponsor Name	Seguin (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets Minimum TWDB Requirement

FMP Details

FMP Type	Property Elevation
FMP Description	Elevation of residential structures in City of Seguin to BFE+1.
County	Guadalupe
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.33
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	182
Population at risk	408	Structures at risk	188	Critical facilities	0
Farm/Ranch land impacted (acres)	11.75	Roadway(s) impacted (length)	3.96		
Number of low water crossings	0	Historical road closures	0		

100-Year Flood Risk Reduction

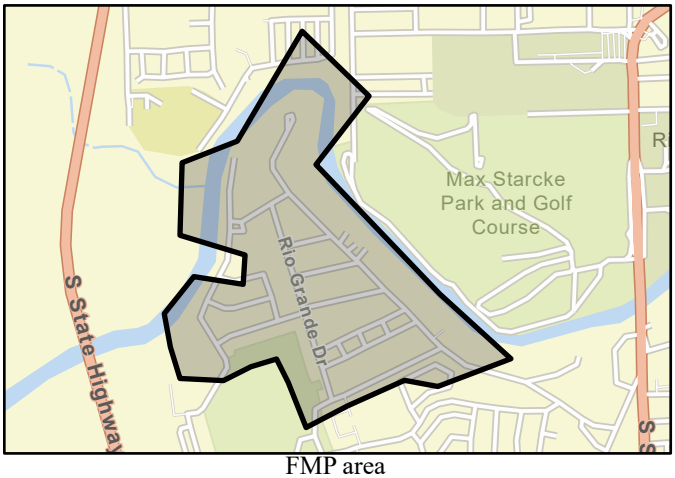
Population removed	408	Structures removed	188	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	11.75	Roadways removed (miles)	3.96
Low water crossing removed	0			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	182

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$18,000,000	% Nature-Based	25%	Issues	None identified at this time
Recurring costs	$0	BCR	1.4		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	City of New Braunfels - Home Elevation - Zone 6
FMP ID	11-52-0000000126
Sponsor Entity ID	00-01-0000002670
Sponsor Name	New Braunfels (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets Minimum TWDB Requirement

FMP Details

FMP Type	Property Elevation
FMP Description	Elevation of residential structures in City of New Braunfels to BFE+1.
County	Comal
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	4.38
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	1	Residential at risk	357
Population at risk	1,839	Structures at risk	484	Critical facilities	3
Farm/Ranch land impacted (acres)	72.99	Roadway(s) impacted (length)	8.45		
Number of low water crossings	7	Historical road closures	0		

100-Year Flood Risk Reduction

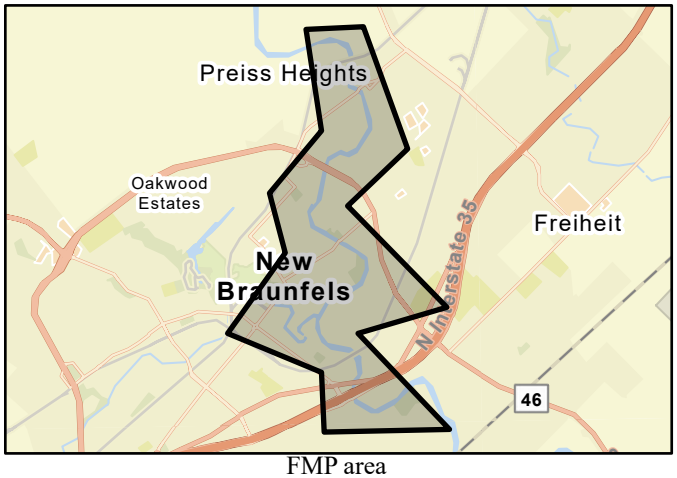
Population removed	1,837	Structures removed	483	Critical facilities removed	3
Emergency facilities removed	1	Farm/ranch removed	72.99	Roadways removed (miles)	8.45
Low water crossing removed	6			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	356

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$13,000,000	% Nature-Based	25%	Issues	None identified at this time
Recurring costs	$0	BCR	1.5		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	Comal County - Home Elevation
FMP ID	11-52-0000000127
Sponsor Entity ID	00-01-0000000014
Sponsor Name	Comal County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets Minimum TWDB Requirement

FMP Details

FMP Type	Property Elevation
FMP Description	Elevation of residential structures in Comal County to BFE+1.
County	Comal
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	9.57
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	3	Residential at risk	460
Population at risk	2,507	Structures at risk	769	Critical facilities	3
Farm/Ranch land impacted (acres)	159.19	Roadway(s) impacted (length)	14.66		
Number of low water crossings	17	Historical road closures	0		

100-Year Flood Risk Reduction

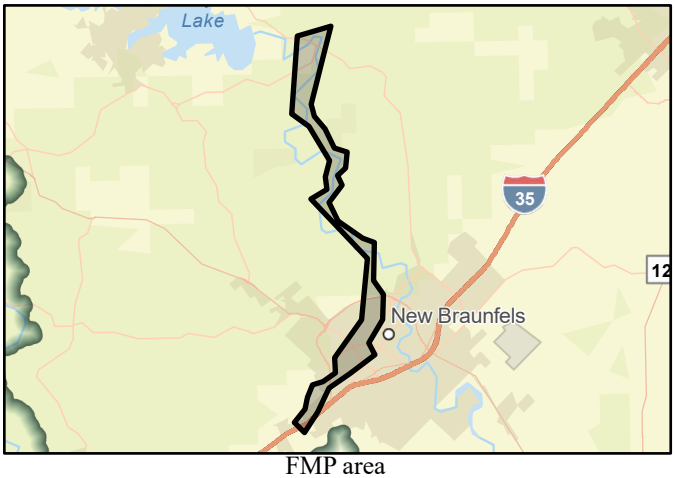
Population removed	2,506	Structures removed	767	Critical facilities removed	3
Emergency facilities removed	3	Farm/ranch removed	159.19	Roadways removed (miles)	14.66
Low water crossing removed	17			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	458

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$24,000,000	% Nature-Based	25%	Issues	None identified at this time
Recurring costs	$0	BCR	1.5		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	City of Martindale - Levee and Benching
FMP ID	11-52-0000000128
Sponsor Entity ID	00-01-0000000016
Sponsor Name	Caldwell County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets Minimum TWDB Requirement

FMP Details

FMP Type	Flood Walls and Levees
FMP Description	Two Levees in Martindale, TX along the San Marcos River, along with floodplain benching
County	Caldwell
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	5.91
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	266
Population at risk	1,135	Structures at risk	393	Critical facilities	0
Farm/Ranch land impacted (acres)	1,191.48	Roadway(s) impacted (length)	8.02		
Number of low water crossings	5	Historical road closures	0		

100-Year Flood Risk Reduction

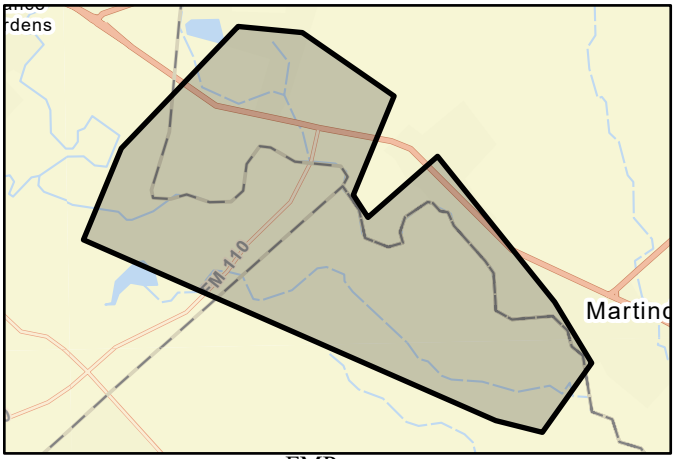
Population removed	1,135	Structures removed	393	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	1,191.48	Roadways removed (miles)	8.02
Low water crossing removed	5			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	266

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$148,000,000	% Nature-Based	25%	Issues	None identified at this time
Recurring costs	$5,000	BCR	0.2		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	Town of Geronimo - Home Elevation
FMP ID	11-52-0000000129
Sponsor Entity ID	00-01-0000000010
Sponsor Name	Guadalupe County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets Minimum TWDB Requirement

FMP Details

FMP Type	Property Elevation
FMP Description	Elevation of 8 residential structures in Town of Geronimo to BFE+1. These structures are vulnerable to flooding from Geronimo Creek and are eligible for FEMA Pre-calculated benefits.
County	Guadalupe
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	2.56
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	4	Residential at risk	48
Population at risk	88	Structures at risk	80	Critical facilities	4
Farm/Ranch land impacted (acres)	356.48	Roadway(s) impacted (length)	1.62		
Number of low water crossings	3	Historical road closures	0		

100-Year Flood Risk Reduction

Population removed	88	Structures removed	79	Critical facilities removed	4
Emergency facilities removed	4	Farm/ranch removed	356.48	Roadways removed (miles)	1.62
Low water crossing removed	3			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	48

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$1,100,000	% Nature-Based	25%	Issues	None identified at this time
Recurring costs	$0	BCR	1.7		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE
REGIONAL FLOOD PLANNING GROUP

Title	City of Victoria - Red River St. Drainage to Leon Creek
FMP ID	11-52-0000000130
Sponsor Entity ID	00-01-0000002428
Sponsor Name	Victoria (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Storm Drain
FMP Description	Install a new 5' x 7' box culvert and drainage structures along Red River Street and Delmar Drive, rehabilitate outfall channel to Lone Tree Creek, and reduce flooding risks to homes, roadways, Citizens Medical Center, TAMU-Victoria, and Victoria College
County	Victoria
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	2.3
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	No	Coastal?	No	Local?	No	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	0
Population at risk	0	Structures at risk	0	Critical facilities	0
Farm/Ranch land impacted (acres)	0	Roadway(s) impacted (length)	0		
Number of low water crossings	0	Historical road closures	0		

100-Year Flood Risk Reduction

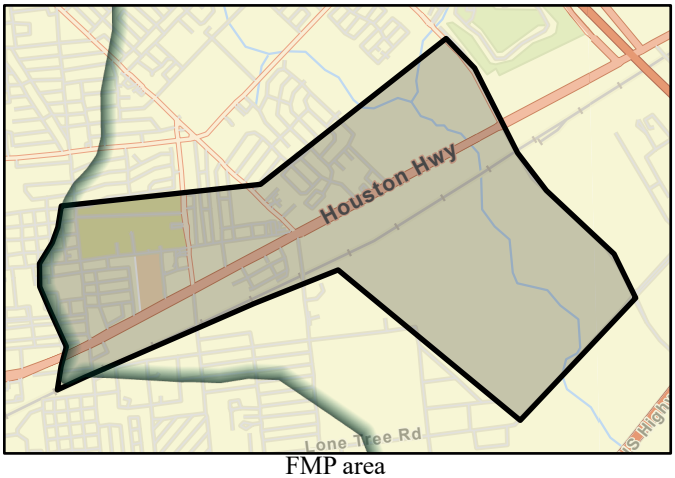
Population removed	0	Structures removed	0	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	0	Roadways removed (miles)	0
Low water crossing removed	0			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	0

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$16,856,200	% Nature-Based	0%	Issues	None identified at this time
Recurring costs	$0	BCR	0		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE
REGIONAL FLOOD PLANNING GROUP

Title	Hays County - LWC-Grist Mill at Plum Cr
FMP ID	11-52-0000000131
Sponsor Entity ID	00-01-0000000026
Sponsor Name	Hays County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	LWC upgrade
FMP Description	Low water crosing improvments at the intersection of Grist Mill Rd and Plum Creek
County	Hays
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.02
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	0
Population at risk	0	Structures at risk	0	Critical facilities	0
Farm/Ranch land impacted (acres)	3.18	Roadway(s) impacted (length)	0.15		
Number of low water crossings	1	Historical road closures	0		

100-Year Flood Risk Reduction

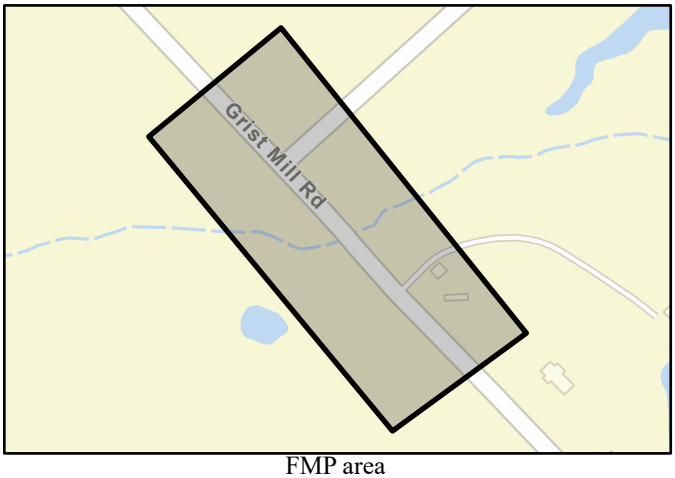
Population removed	0	Structures removed	0	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	3.18	Roadways removed (miles)	0.15
Low water crossing removed	1			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	0

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$150,000	% Nature-Based	0%	Issues	None identified at this time
Recurring costs	$1,000	BCR	0		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE
REGIONAL FLOOD PLANNING GROUP

Title	Hays County - LWC-Satterwhite at Brushy Cr
FMP ID	11-52-0000000132
Sponsor Entity ID	00-01-0000000026
Sponsor Name	Hays County (County)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	LWC upgrade
FMP Description	Low water crossing improvements at the intersectionof Satterwhite Rd and Brushy Creek
County	Hays
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.2
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	No	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	1
Population at risk	1	Structures at risk	1	Critical facilities	0
Farm/Ranch land impacted (acres)	20.05	Roadway(s) impacted (length)	0.22		
Number of low water crossings	3	Historical road closures	0		

100-Year Flood Risk Reduction

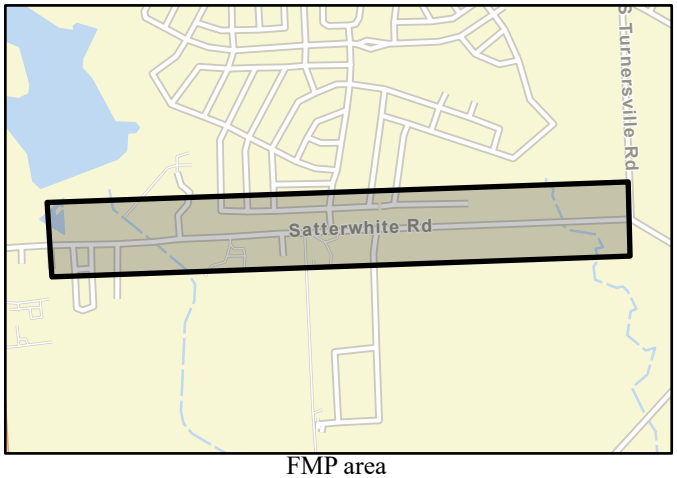
Population removed	1	Structures removed	1	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	20.05	Roadways removed (miles)	0.22
Low water crossing removed	2			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	1

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	No	Water supply contribution	-

Estimated Cost

Total FMP Cost	$150,000	% Nature-Based	0%	Issues	None identified at this time
Recurring costs	$1,000	BCR	0		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	City of New Braunfels - Blieders Creek Diversion
FMP ID	11-52-0000000133
Sponsor Entity ID	00-01-0000002670
Sponsor Name	New Braunfels (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Channel
FMP Description	The project involves channel capacity improvements and a diversion structure to reduce flooding for the areas adjacent to Blieders Creek, Comal Springs, and the Comal River
County	Comal
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.69
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	0
Population at risk	0	Structures at risk	0	Critical facilities	0
Farm/Ranch land impacted (acres)	49.87	Roadway(s) impacted (length)	0.78		
Number of low water crossings	2	Historical road closures	0		

100-Year Flood Risk Reduction

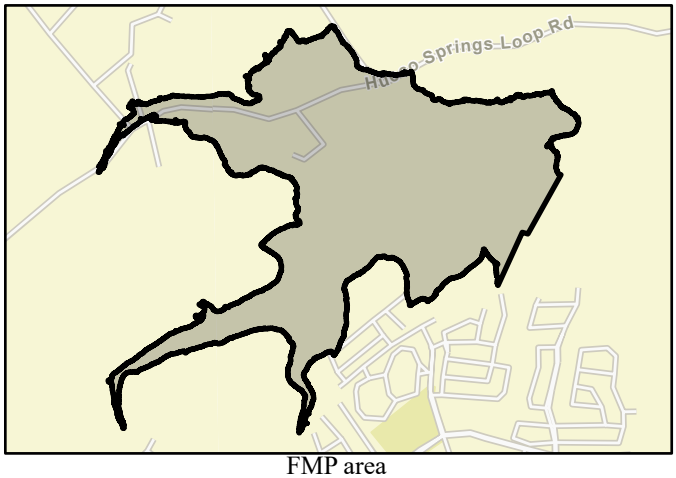
Population removed	0	Structures removed	0	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	49.87	Roadways removed (miles)	0.78
Low water crossing removed	2			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	0

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	-	Water supply contribution	-

Estimated Cost

Total FMP Cost	$20,072,700	% Nature-Based	0%	Issues	None identified at this time
Recurring costs	$0	BCR	0.02		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	City of New Braunfels Dry Comal Creek Tributary 1/1A Pump Station and Diversion
FMP ID	11-52-0000000134
Sponsor Entity ID	00-01-0000002670
Sponsor Name	New Braunfels (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets minimum TWDB requirements

FMP Details

FMP Type	Infrastructure
FMP Description	The project involves construction of a leeve with flap gates, a pump station and detention ponds to address flooding issues in the areas around Landa St and Walnut Ave
County	Comal
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.14
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	16
Population at risk	378	Structures at risk	35	Critical facilities	0
Farm/Ranch land impacted (acres)	0.83	Roadway(s) impacted (length)	0.48		
Number of low water crossings	0	Historical road closures	0		

100-Year Flood Risk Reduction

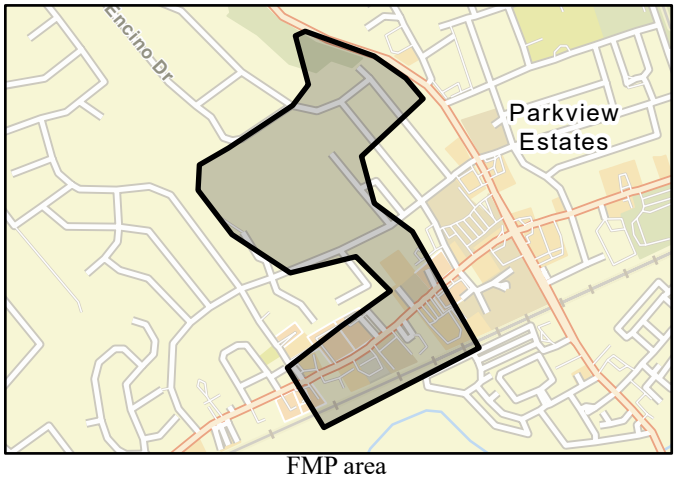
Population removed	378	Structures removed	35	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	0.83	Roadways removed (miles)	0.48
Low water crossing removed	0			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	16

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	-	Water supply contribution	-

Estimated Cost

Total FMP Cost	$265,511,200	% Nature-Based	0%	Issues	None identified at this time
Recurring costs	$5,000	BCR	0.01		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE
REGIONAL FLOOD PLANNING GROUP

Title	City of Seguin - Jefferson Ave Drainage Improvements (Risk Area DD)
FMP ID	11-52-0000000136
Sponsor Entity ID	11-01-0000002616
Sponsor Name	Seguin (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets Minimum TWDB Requirement

FMP Details

FMP Type	Infrastructure
FMP Description	Upsize existing pipe to 54" from the outfall at Walnut Branch to Guadalupe St, install 36" pipe on Jefferson Ave, install 42" pipe on Guadalupe St, and install 30" pipe along Guadalupe St including curb inlets and upsizing exisitng pipe.
County	Guadalupe
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.01
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	No	Coastal?	No	Local?	No	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	0
Population at risk	0	Structures at risk	0	Critical facilities	0
Farm/Ranch land impacted (acres)	0	Roadway(s) impacted (length)	0		
Number of low water crossings	0	Historical road closures	0		

100-Year Flood Risk Reduction

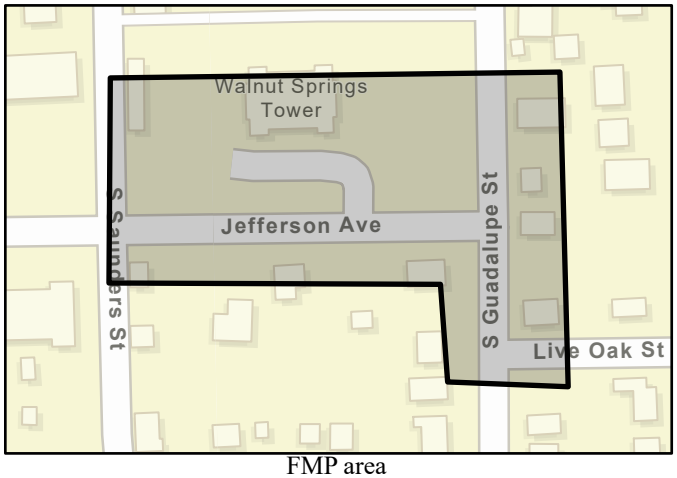
Population removed	0	Structures removed	0	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	0	Roadways removed (miles)	0
Low water crossing removed	0			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	0

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	-	Water supply contribution	-

Estimated Cost

Total FMP Cost	$3,344,762	% Nature-Based	0%	Issues	None identified at this time
Recurring costs	$124,834	BCR	0.1		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	City of Seguin - Burr Oak Road Extension (Risk Area O)
FMP ID	11-52-0000000137
Sponsor Entity ID	11-01-0000002616
Sponsor Name	Seguin (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets Minimum TWDB Requirement

FMP Details

FMP Type	Infrastructure
FMP Description	1075 ft of road extension of Burr Oak road to connect with Jay Rd, consisting of curb and gutter installation, sidewalks, and ROW acquisition.
County	Guadalupe
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.01
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	No	Coastal?	No	Local?	No	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	0
Population at risk	0	Structures at risk	0	Critical facilities	0
Farm/Ranch land impacted (acres)	0	Roadway(s) impacted (length)	0		
Number of low water crossings	0	Historical road closures	0		

100-Year Flood Risk Reduction

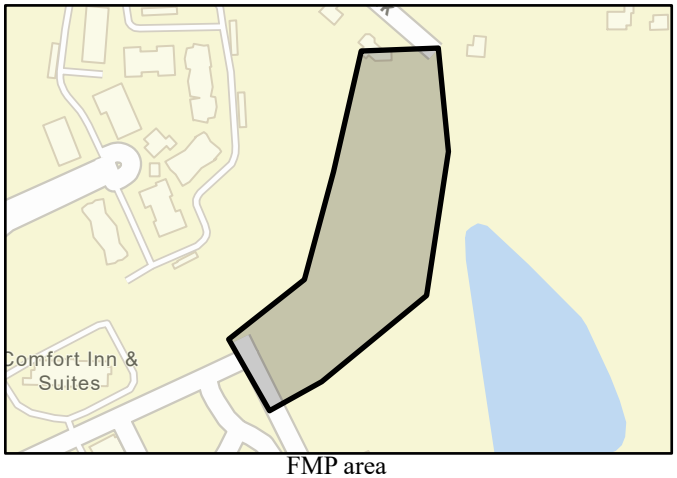
Population removed	0	Structures removed	0	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	0	Roadways removed (miles)	0
Low water crossing removed	0			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	0

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	-	Water supply contribution	-

Estimated Cost

Total FMP Cost	$1,323,308	% Nature-Based	0%	Issues	None identified at this time
Recurring costs	$31	BCR	0		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	City of Seguin - Twin Oak Rd Low Water Crossing (Risk Area P)
FMP ID	11-52-0000000138
Sponsor Entity ID	11-01-0000002616
Sponsor Name	Seguin (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets Minimum TWDB Requirement

FMP Details

FMP Type	LWC upgrade
FMP Description	Replace the existing RCPs with three 6'x4' RCBs and elevate exsiting crossing by 1.5'. Additionally, removing the existing HDPE pipe located norwest of LWC and regrade the ditch.
County	Guadalupe
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	0
Population at risk	0	Structures at risk	0	Critical facilities	0
Farm/Ranch land impacted (acres)	0	Roadway(s) impacted (length)	0		
Number of low water crossings	0	Historical road closures	0		

100-Year Flood Risk Reduction

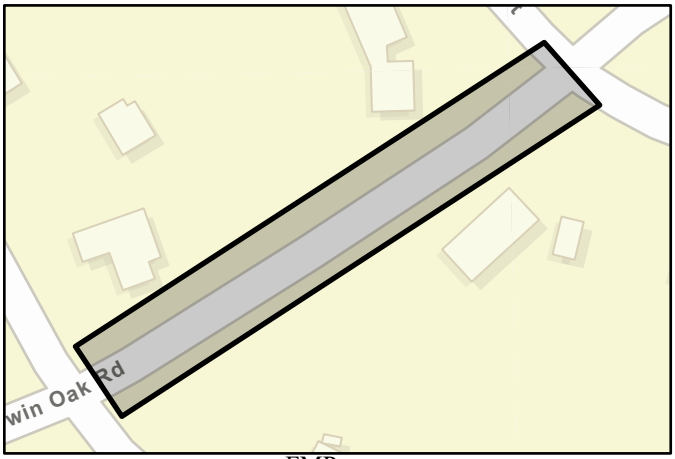
Population removed	0	Structures removed	0	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	0	Roadways removed (miles)	0
Low water crossing removed	0			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	0

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	-	Water supply contribution	-

Estimated Cost

Total FMP Cost	$186,663	% Nature-Based	0%	Issues	None identified at this time
Recurring costs	$7,600	BCR	0.8		



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

REGION 11 GUADALUPE REGIONAL FLOOD PLANNING GROUP

Title	City of Seguin - Nelda St Storm Drain Improvements
FMP ID	11-52-0000000139
Sponsor Entity ID	11-01-0000002616
Sponsor Name	Seguin (Municipality)
RFPG Recommended?	Yes
Reason for Recommendation	Meets Minimum TWDB Requirement

FMP Details

FMP Type	Storm Drain
FMP Description	Creating ditches/channels with inlets and lateral pipes along Elsik St, Nelda St and Short Ave. Upsizing drain network along Nelda St, Install detention pond(s) along S Saunders, and raising existing road elevations from S Austin St to west of Stratton an
County	Guadalupe
Associated FME's	-
Associated FMS's	-
Emergency Need?	No
If yes, describe Emergency Need	-
Drainage area (mi² est.)	0.07
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk Summary

Flood risk type:	Riverine?	Yes	Coastal?	No	Local?	Yes	Playa?	No	Other?	No

Known lives lost in study area	-	Emergency facilities at risk	0	Residential at risk	1
Population at risk	1	Structures at risk	1	Critical facilities	0
Farm/Ranch land impacted (acres)	0	Roadway(s) impacted (length)	0.04		
Number of low water crossings	0	Historical road closures	0		

100-Year Flood Risk Reduction

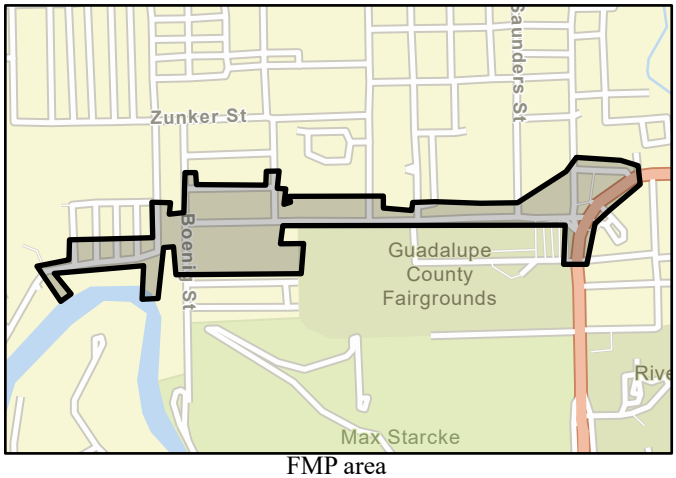
Population removed	1	Structures removed	1	Critical facilities removed	0
Emergency facilities removed	0	Farm/ranch removed	0	Roadways removed (miles)	0.04
Low water crossing removed	0			Reduction in road closures over 10 years	0
Other benefits	Not Applicable			Residential removed	1

Impacts

Negative impact?	Unknown	Negative impacts description	Not Applicable
Water supply contributions?	-	Water supply contribution	-

Estimated Cost

Total FMP Cost	$15,801,482	% Nature-Based	0%	Issues	None identified at this time
Recurring costs	$2,500	BCR	1.5		



FMP area



Regional view of FMP area

DISCUSSION AND POSSIBLE ACTION RELATED TO TASK 5A

Recommendation of FMPs

PUBLIC PARTICIPATION

Task 10 – Comments Received

Comments Received from August 25 to October 30

Public Comments Received via comments@guadaluperfpg.org

Topic	Comment
Email from contractor working for Kerr County regarding interest in finding supplemental funding for stream gauges to improve emergency response.	The comment suggested that the County would like these efforts considered as FMEs and FMSs for the 2028 Guadalupe Regional Flood Plan. Technical consulting team responded with information that FMXs were still being accepted for the 2028 Regional Flood Plan and requested a meeting with the contractor to further discuss the County's interests.
Following up from previous email, contractor working for Hays County provided proposed FMEs and FMPs for inclusion into the flood plan.	FNI worked with the contractor to integrate the proposed FMEs and FMPs into the RFP database and to present the draft FMPs to the Guadalupe RFPG at the November meeting.

Look Ahead (may vary)

Meeting	Milestones / Goals
February 2027	Review Draft Regional Flood Plan (distribute mid-January) *Final Actions (if any)
April 2027	Approve Draft Regional Flood Plan for Submission to TWDB
May 2027 (Actions, No meeting anticipated at this time)	Draft Regional Flood Plan to TWDB (May 26, 2027) *Submit to TWDB *Post Draft RFP for Public Review (Tentative Late May) *Public Meeting (30 days after Posting, Tentative Late June – Early July) *Close Public Review (30 days before until 30 days after Public Meeting)
June / July 2027	Public Meeting(s) [Date, time, location TBD
Summer/Fall 2027	Received comments (public, TWDB) *Consolidate and review comments *Update GDB, Revise RFP *Meetings TBD (Final RFP approval in December)
January 2028	Adopt & Submit Regional Flood Plan to TWDB (Jan 10, 2028)

Potential Topics / Presentations

- Shriner Texas Institute for Hazard Risk and Readiness
- TWDB Flood Tools and Research (updates)
- TWDB Nature Based Design Guidance (updated timeline)

Agenda Item 11

Dates and Agenda for Next Meeting

- February 2027

Future Meeting Dates:

- April 2027
- Public Meeting(s) TBD
  - June/July
- Future RFPG Meetings TBD

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Agenda Item 12

Adjourn

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