



Region 11: Guadalupe Regional Flood Planning Group Meeting

Wednesday, December 7, 2022
2:00pm

Agenda Item 1

Call to Order

1. Attendance
2. Individuals attending in-person, please sign-in

Agenda Item 2

Welcome

Agenda Item 3

Approval of Meeting Minutes

1. Approval of meeting minutes from November 2, 2022 Region 11 RFPG Meeting.

Meeting Minutes
Region 11 Guadalupe Regional Flood Planning Group Meeting
November 2, 2022 at 2:00 PM

Guadalupe-Blanco River Authority River Annex (905 Nolan Street, Seguin, TX 78155)

Roll Call:

<u>Voting Member</u>	<u>Interest Category</u>	<u>Present (x) / Absent () / Alternate Present (*)</u>
Doug Miller Melissa Reynolds*	<i>Agricultural</i>	X
John Johnston	<i>Counties</i>	X
Lon Shell	<i>Counties</i>	X
Bobby Christmas	<i>Electric Generating Utilities</i>	X
Annalisa Peace Bill Barker*	<i>Environmental</i>	X
Doug Sethness Jennifer Urban*	<i>Flood districts</i>	X
Kevin Stone	<i>Industries</i>	
Joseph Pantalion John Espinoza*	<i>Municipalities</i>	*
Ken Gill	<i>Municipalities</i>	X
Dr. Kimberly Meitzen	<i>Public</i>	X
R. Brian Perkins Charlie Hickman*	<i>River Authorities</i>	X
Vacant	<i>River Authorities</i>	
Gian Villarreal Tami Norton*	<i>Small Business</i>	X (arrived at 2:13pm)
Ronald (Ron) Fieseler Ben Eldridge*	<i>Water Districts</i>	X
Steven Fonville	<i>Water Utilities</i>	X

<u>Non-voting Member</u>	<u>Agency</u>	<u>Present(x)/Absent() / Alternate Present (*)</u>
Sue Reilly Beth Bendik*	Texas Parks and Wildlife Department	X
Hollie Hischer Bierbauer	Texas Division of Emergency Management	
Jami McCool Kristin Lambrecht*	Texas Department of Agriculture	X
Allen Nash	Texas State Soil and Water Conservation Board	
Kris Robles Teresa Williams*	General Land Office	
Ryke Moore	Texas Water Development Board (TWDB)	X
Joel Klumpp	Texas Commission on Environmental Quality	
Don Durden	Public	X
Doris Cooksey	Region 12 Liaison	
Patrick Brzozowski Scott Hartl*	Region 10 Liaison	

Quorum:

Quorum: **Yes**

Number of voting members or alternates representing voting members present: **13**

Number required for quorum per current voting positions of 15: **8**

Other Meeting Attendees:

Lauren Willis, GBRA (Facilitator)

Ram Mendoza, GBRA (IT)

Jay Scanlon, Freese & Nichols, Inc.

Adam Conner, Freese & Nichols, Inc.

Velma Danielson, Blanton & Associates

Joyce Yannuzzi, Senator Donna Campbell

Will Paiz-Tabash, City of Kyle

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

AGENDA ITEM NO. 1: Call to Order

Chairman Miller called the meeting to order at 2:02 PM. Lauren Willis called roll of the planning group members to record attendance and a quorum was established.

AGENDA ITEM NO. 2: Welcome

Chairman Miller welcomed members to the meeting.

AGENDA ITEM NO. 3: Approval of minutes from the September 7, 2022 and September 21, 2022 Region 11 RFPG Meeting

Chairman Miller opened discussion on approving the minutes from the September 7, 2022 and September 21, 2022 Region 11 RFPG Meeting.

A motion was made by Doug Sethness to approve the September 7, 2022 and September 21, 2022 Region 11 RFPG Meeting minutes with the two corrections provided. Bobby Christmas seconded the motion. The meeting minutes were approved by consensus.

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

Chairman Miller has asked L. Willis to review the by-laws for consistency and stream-lining of processes. RFPG members have the opportunity to provide input and will have ample time to review any changes.

AGENDA ITEM NO. 5: Texas Water Development Board (TWDB) Updates

Ryke Moore reviewed the following items:

- TWDB provided a comment letter on the draft plan
- Technical conference call will be held on November 9th
- Hosted a stakeholder call to discuss rules
- Guadalupe Regional Flood plan is due on January 10th

AGENDA ITEM NO. 6: Guadalupe Region 11 RFPG Sponsor Guadalupe-Blanco River Authority (GBRA) Updates

Lauren Willis reviewed the following items:

- Continue to check the website guadalupeRFPG.org for updates and materials
- The vacant River Authority position is posted on the website

AGENDA ITEM NO. 7: Discussion and potential action regarding administrative expenses to be submitted to the Texas Water Development Board for reimbursement.

Lauren Willis reviewed the administrative costs for FY22Q4 (June 1, 2022 – August 31, 2022).

A motion was made by Ron Fieseler to approve the administrative expenses for FY22Q4 for reimbursement. Doug Sethness seconded the motion. The motion was approved with 12 Ayes and 0 Nays.

AGENDA ITEM NO. 8: Discussion and potential action regarding the solicitation to fill the vacant voting position in the River Authorities interest category.

Chairman Miller informed the group that Ray Buck resigned and opened the floor for discussion. L. Willis reviewed that the River Authority interest category position has been posted and will be open until December 5th. A definition of River Authority was provided.

AGENDA ITEM NO. 9: Discussion and potential action regarding Region 11 RFPG Technical Consultants work and schedule.

Jay Scanlon overviewed the agenda, reviewed the comments received from the TWDB on the draft, and reviewed the Look Ahead calendar. Velma Danielson, Blanton & Associates reviewed the comments received during the two public meetings on September 7th and September 21st.

a. Discussion and potential action approving the list of Flood Mitigation Evaluations (FMEs) for Task 12.

Jay Scanlon reviewed the recommended FMEs of Low Water Crossings located at (1) City of Kerrville – First Street, (2) City of Kerrville – Fourth Street, (3) Comal County – River Road, (4) San Marcos – McKie St. or S. LBJ at Willow Springs, (5) Victoria County – Nursery Road and (6) Victoria County – Parson Road to move forward with developing these into Flood Mitigation Projects (FMPs).

Chairman Miller opened the floor for discussion of approving the identified FMEs.

A motion was made by Brian Perkins to approve the identified FMEs and the motion was seconded by Ken Gill. The motion passed with 13 Ayes and 0 Nays.

AGENDA ITEM NO.10: Consider date and agenda items for next meeting

The next meeting will be held on Wednesday, December 7th at 2pm at the GBRA River Annex – 905 Nolan Street, Seguin, TX 78155.

AGENDA ITEM NO. 11: Public General comments (Public comments limited to 3 minutes per speaker)

Doug Sethness stated that he would like to get a presentation from the EPA and The US Army Corps of Engineers about Waters of the United States (WOTUS) and Annalisa Peace would like for the Environmental Defense Fund to give a presentation.

AGENDA ITEM NO. 12: Adjourn

Doug Sethness made a motion to adjourn. The motion was seconded by Brian Perkins. The motion passed by unanimous consent.

The meeting adjourned at 3:05 PM by Doug Miller.

Approved by the Region 11 Guadalupe RFGP at a meeting held on December 7, 2022.

Brian Perkins, SECRETARY

Doug Miller, CHAIR

Region 11 Guadalupe RFPG Chair Updates

Agenda Item 4

Texas Water Development Board Updates

Agenda Item 5

Agenda Item 6

Guadalupe Region 11 RFPG Sponsor – GBRA
Updates

Agenda Item 7

Discussion and potential action regarding administrative expenses to be submitted to the Texas Water Development Board for reimbursement

GBRA Salaries & Fringe	\$ 4,283.01
TOTAL	\$ 4,238.01

Approved Budget	Project Cost This Report	Cumulative Project Cost	Balance
\$37,866	\$4,283.01	\$19,022.72	\$18,843.28

Agenda Item 8

Discussion and potential action regarding budget memorandum No. 2 to be submitted to the Texas Water Development Board.



Item 8

Budget Amendment

Discussion and Possible Action

MEMORANDUM



Innovative approaches
Practical results
Outstanding service

10431 Morado Circle, Suite 300 + Austin, Texas 78759 + 512-617-3100 + FAX 817-735-7491

www.freese.com

TO: Lauren Willis
CC: Chair Miller, Region 11 RFPG
FROM: Jay Scanlon, P.E., CFM
SUBJECT: TWDB Budget Memorandum
DATE: 11/30/2022
PROJECT: Guadalupe Regional Flood Plan

Attached you will find proposed “Budget Memorandum No. 1, Amended Exhibit B” for RFPG consideration and approval. The TWDB grant contract with GBRA requires a budget memorandum when modifications to the original task or expense budget categories exceed a 35% change of any category. RFPG approval is required before submission to the TWDB.

In this first cycle of regional flood planning, estimated amounts needed for each task were established at contract execution. As we are nearing the end of final plan development, we have a better understanding of how much effort each task involved and are requesting this memorandum to officially modify the budget to conform to where task expenses were incurred.

Additionally, through this budget memorandum, we are requesting to consolidate remaining budgets in Tasks 1-11 into Tasks 5 and 10 for the remainder of the final plan development. The proposed adjustments are based on estimated effort to complete the final plan, including finalizing the FMXs (Task 5) and incorporating to/responding to TWDB and public comments (Task 10). As a reminder, the last day that work performed under Tasks 1-11 is eligible for reimbursement is January 10, 2023. The amount currently available in Tasks 1-11 exceeds the amount projected to be needed in Tasks 5 and 10 to develop the final plan. Therefore, we propose to move these projected-to-be-unused funds (approximately \$14,000) into the Task 12 budget for additional work on performing FMEs to recommend additional FMPs in the Amended Regional Flood Plan.

Upon approval of the GBRA-TWDB budget amendment FNI will prepare amendments for our sub-consulting firms as well as an amendment to our contract with GBRA.

- End of Memorandum -

TWDB CONTRACT NO. 2101792496
APPROVED BUDGET MEMORANDUM NO 1
AMENDED EXHIBIT B
Task and Expense Budgets

TASK BUDGET

TASK	TASK DESCRIPTION	AMD No. 1 BUDGET	REVISED BUDGET	AMOUNT CHANGED
1	Planning Area Description	\$48,065.00	\$48,091.18	\$26.18
2A	Existing Condition Flood Risk Analysis	\$96,130.00	\$99,005.15	\$2,875.15
2B	Future Condition Flood Risk Analysis	\$96,130.00	\$96,935.42	\$805.42
3A	Evaluation and Recommendations on Floodplain Management Practices	\$19,226.00	\$17,593.80	(\$1,632.20)
3B	Flood Mitigation and Floodplain Management Goals	\$9,613.00	\$8,682.47	(\$930.53)
4A	Flood Mitigation Needs Analysis	\$28,839.00	\$28,654.73	(\$184.27)
4B	Identification and Evaluation of Potential Flood Management Evaluations and Potentially Feasible Flood Management Strategies and Flood Mitigations Projects	\$144,195.00	\$144,374.44	\$179.44
4C	Prepare and Submit Technical	\$19,226.00	\$22,638.66	\$3,412.66
5	Recommendation of Flood Management Evaluations and Flood	\$192,260.00	\$184,527.79	(\$7,732.21)
6A	Impacts of Regional Flood Plan	\$38,452.00	\$26,835.28	(\$11,616.72)
6B	Contributions to and Impacts on Water Supply Development and the State	\$9,613.00	\$3,096.82	(\$6,516.18)
7	Flood Response Information and	\$9,613.00	\$8,181.86	(\$1,431.14)
8	Administrative, Regulatory, and Legislative Recommendations	\$9,613.00	\$5,362.58	(\$4,250.42)
9	Flood Infrastructure Financing Analysis	\$19,226.00	\$6,293.97	(\$12,932.03)
10	Public Participation and Plan Adoption	\$221,099.00	\$284,947.18	\$63,848.18
11	Outreach and Data Collection	\$85,410.00	\$47,424.02	(\$37,985.98)
12	Perform Identified FMEs	\$341,640.00	\$355,704.65	\$14,064.65
13	Preparation and Adoption of Amended	\$142,350.00	\$142,350.00	\$0.00
TOTAL:		\$1,530,700.00	\$1,530,700.0	\$0.00

EXPENSE BUDGET

EXPENSE BUDGET CATEGORY	AMD No. 1 BUDGET	REVISED BUDGET
Other Expenses ¹	\$ 2,250.00	\$ 2,250.00
Contractor Salaries and Wages ²	\$35,616.00	\$35,616.00
Subcontract Services	\$ 1,492,834.00	\$ 1,492,834.00
Voting Planning Member Travel ³	\$ 0.00	\$ 0.00
TOTAL	\$ 1,530,700.00	\$ 1,530,700.00

¹Eligible Other Expenses as described in 31 TAC § 361.72(b) include the following administrative costs if the RFPG or its chairperson certifies, during a public meeting, that the expenses are eligible for reimbursement and are correct and necessary:

- a) Travel expenses as authorized by the General Appropriations Act are available only for attendance at a posted meeting of the RFPG, unless the travel is specifically authorized by the RFPG and EA;
- b) Costs associated with providing translators and accommodations for persons with disabilities for public meetings when required by law or deemed necessary by the RFPGs and certified by the chairperson;
- c) Direct costs, excluding personnel-related costs of the Planning Group Sponsor, for placing public notices for the legally required public meetings and of providing copies of information for the public and for members of the RFPGs as needed for the efficient performance of planning work such as:
 1. expendable supplies actually consumed in direct support of the planning process;
 2. direct communication charges;
 3. limited direct costs/fees of maintaining RFPG website domain, website hosting, and/or website;
 4. reproduction of materials directly associated with notification or planning activities (the actual non-labor direct costs as documented by the Contractor);
 5. direct postage (e.g., postage for mailed notification of funding applications or meetings); and
 6. other direct costs of public meetings, all of which must be directly related to planning (e.g., newspaper and other public notice posting costs).
- d) The cost of public notice postings including a website and for postage for mailing notices of public meetings; and
- e) The Planning Group Sponsor's personnel costs for the staff hours that are directly spent providing, preparing for, and posting public notice for RFPG meetings, including labor, fringe, overhead, and other expenses for their support of and attendance at such RFPG meetings, in accordance with, and as specifically limited by, the flood planning grant contract with the Board. This may not exceed: \$5,000 per regular RFPG meeting nor a total of \$60,000 over the first planning cycle.

²Contractor Salaries and Wages as described in 31 TAC § 361.72(b) include the following administrative costs if the RFPG or its chairperson certifies, during a public meeting, that the expenses are eligible for reimbursement and are correct and necessary: the Planning Group Sponsor's personnel costs for the staff hours that are directly spent providing, preparing for, and posting public notice for RFPG meetings, including labor, fringe, overhead, and other expenses for their support of and attendance at such RFPG meetings, in accordance with, and as specifically limited by, the flood planning grant contract with the Board. This may not exceed: \$5,000 per regular RFPG meeting nor a total of \$85,000 over the first planning cycle.

³Voting Planning Member Travel Expenses is defined as eligible mileage expenses incurred by regional flood planning members that cannot be reimbursed by any other entity, planning group sponsor, etc. as certified by the voting member. Travel expenses are available only for attendance at a posted meeting of the RFPG unless the travel is specifically authorized by the RFPG and EA. The reimbursed amount is limited to the maximum amounts authorized for state employees by the General Appropriations Act, Tex. Leg. Regular Session, 2019, Article IX, Part 5, as amended or superseded.

Ineligible Expenses as described in 31 TAC § 361.72(a) include, but are not limited to:

- a) Activities for which the Board determines existing information, data, or analyses are sufficient for the planning effort
- b) Activities directly related to the preparation of applications for state or federal permits or other approvals, activities associated with administrative or legal proceedings by regulatory agencies, and preparation of engineering plans and specifications;
- c) Compensation for the time or expenses of RFPGs members' service on or for the RFPG

- d) Costs of administering the RFPG, other than those explicitly allowed under 31 TAC § 361.72(b)
- e) Staff or overhead costs for time spent providing public notice and meetings, including time and expenses for attendance at such meetings;
- f) Costs for training;
- g) Costs of developing an application for funding or reviewing materials developed due to this grant;
- h) Costs of administering the regional flood planning grant and associated contracts;
- i) Analysis or other activities related to planning for disaster response or recovery activities; and
- j) Analyses of benefits and costs of FMSs beyond the scope of such analyses that is specifically allowed or required by regional flood planning guidance to be provided by the EA unless the RFPG demonstrates to the satisfaction of the EA that these analyses are needed to determine the selection of the FMS or FMP.
- k) Labor, reproduction, or distribution of newsletters;
- l) Food, drink, or lodging for Regional Flood Planning Group members (including tips and alcoholic beverages);
- m) Purchase, rental, or depreciation of equipment (e.g., computers, copiers, fax machines);
- n) General purchases of office supplies not documented as consumed directly for the planning process; and
- o) Costs associated with social events or tours.

APPROVED:	
<p style="margin: 0;"><u>CONTRACT MANAGER</u></p> <hr style="border: 0; border-top: 1px solid black; margin: 10px 0;"/> <p style="margin: 0;">Ryke A. Moore</p> <hr style="border: 0; border-top: 1px solid black; margin: 10px 0;"/> <p style="margin: 0;">DATE</p>	<p style="margin: 0;"><u>DEPUTY EXECUTIVE ADMINISTRATOR</u></p> <hr style="border: 0; border-top: 1px solid black; margin: 10px 0;"/> <p style="margin: 0;">Matt Nelson</p> <hr style="border: 0; border-top: 1px solid black; margin: 10px 0;"/> <p style="margin: 0;">DATE</p>

Agenda Item 9

Discussion regarding Region 11 RFPG Technical Consultants work and schedule.

A. Discussion and potential action approving the Final Flood Mitigation Evaluation (FME) and Flood Mitigation Project (FMP) tables.

B. Discussion and potential action approving additional recommendations to Chapter 8: Legislative, Administrative, and Regulatory Recommendations.

C. Discussion and possible action approving the list of Flood Mitigation Evaluations (FMEs) for Task 12.

A wide, flat landscape with a large body of water and green vegetation under a cloudy sky. The water is calm, reflecting the sky and the surrounding greenery. The vegetation appears to be a mix of grasses and low-lying plants, typical of a wetland or marsh area. The sky is overcast with soft, grey clouds.

Region 11 Guadalupe

Regional Flood Planning Group Meeting

December 7, 2022

Items 8 and 9



Item 9
Technical Consultant Update



Agenda

Draft Plan Comments and Outreach

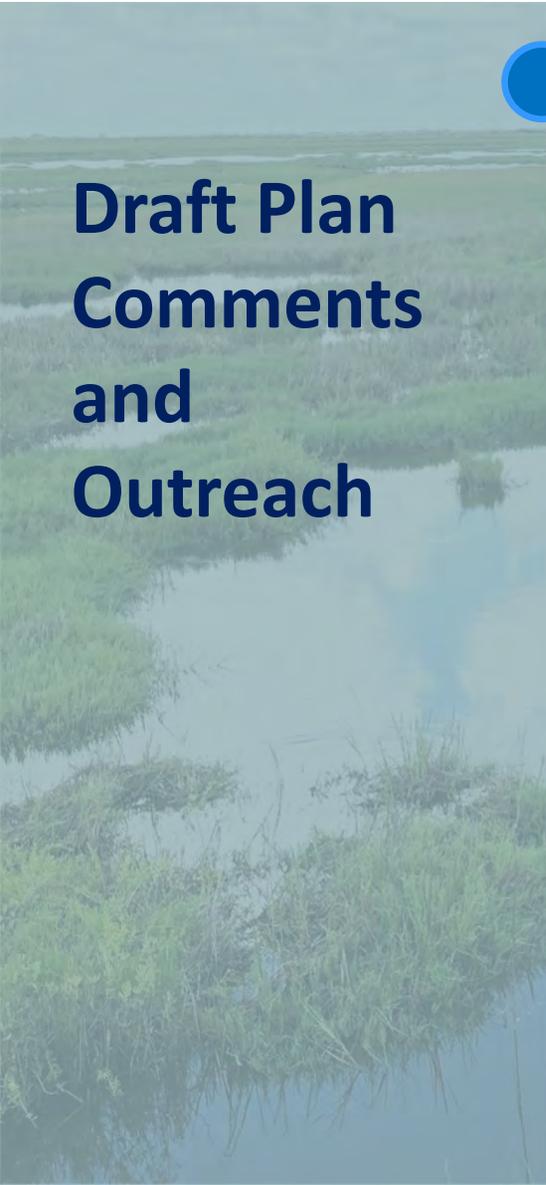
General Plan Updates

Final FME and FMP Discussion*

Chapter 8 Discussion*

Task 12 Discussion*

Look Ahead



Draft Plan Comments and Outreach

Public Comments Received via comments@guadalupefpg.org for November 1st through December 6th

Topic	Comment
Outreach	An emergency management coordinator recommended informing the TDEM (Texas Division of Emergency Management) district coordinators (DCs) in Region 11 about the GBRA RFPG, as they are the first for contacts for city and county officials in emergencies.
Additional Comment on the Draft Plan	Recommends that the method of the identification and counting of the number of flooded homes and the financial cost of the damage be revised to a method of identification which would include homes and businesses which do not have flood insurance.



General Plan Updates

- **Working to incorporate address comments**
 - Comment/Response matrix (separate document)
 - Chapter 6 (separate document)
 - Chapter 7 (separate document)
 - Chapter 10 (separate document)
 - Other Chapters, GIS updates, Miscellaneous
- **Voting Items**
 - Task 5 – FMXs
 - Task 8 – Recommendations
- **Final Plan**
 - Compile final for RFPG review (mid December)
 - January vote to *“Adopt the Plan and Approve Submittal”*

Provided as separate document due to size

- **TWDB**
 - Level 1 and Level 2
- **Public**
 - 38 comments (some split up)
 - 10 Sponsor FMX requests



Comment Matrix

TWDB Comment No.	Task No.	Type - TWDB comment, Public comment	GDB or Chapter Text	Level 1 or 2	Description	Draft Response
2	1	TWDB comment	GDB	1	Entities GIS Feature Class, Entities: It appears that some fields contain invalid entries, including 'ACTIVE'. Please leave NULL to represent either "not applicable" or "unknown". Please review fields, as appropriate, and populate with valid entries as referenced in Exhibit D Table 3 [31 TAC §361.30(4) & (5)].	NULL will be used in place of Unknown.
3a	1	TWDB comment	GDB	1	Existing Flood Projects GIS Feature Class, ExFldProjs: a. Please refrain from using numeric placeholders (such as "999999") in numeric fields such as 'COMP_YR' as this causes errors in calculations.	NULL will be used in place of numeric placeholders.
3b	1	TWDB comment	GDB	1	Existing Flood Projects GIS Feature Class, ExFldProjs: Please include the expected year of completion for all ongoing projects in the 'COMP_YR' field. Please leave	Four projects have completion years identified and are filled accordingly in the geodatabase. For the remaining three



Task 6

Provided as separate document due to size

- Revised language in Section 6.1.1, 6.1.2, and 6.1.4 to state none of the FMSs or FMPs recommended in the plan will negatively impact or measurably reduce water availability or water supply volumes and will not impact the State Water Plan.
- Revised language in Section 6.2.5 to reflect that while some FMPs have the potential to provide water supply benefits, they are not quantified at this time. Since the benefits are not yet quantified, we will mark WATER_SUP as No for all FMPs in the geodatabase.



Task 7

Provided as separate document due to size

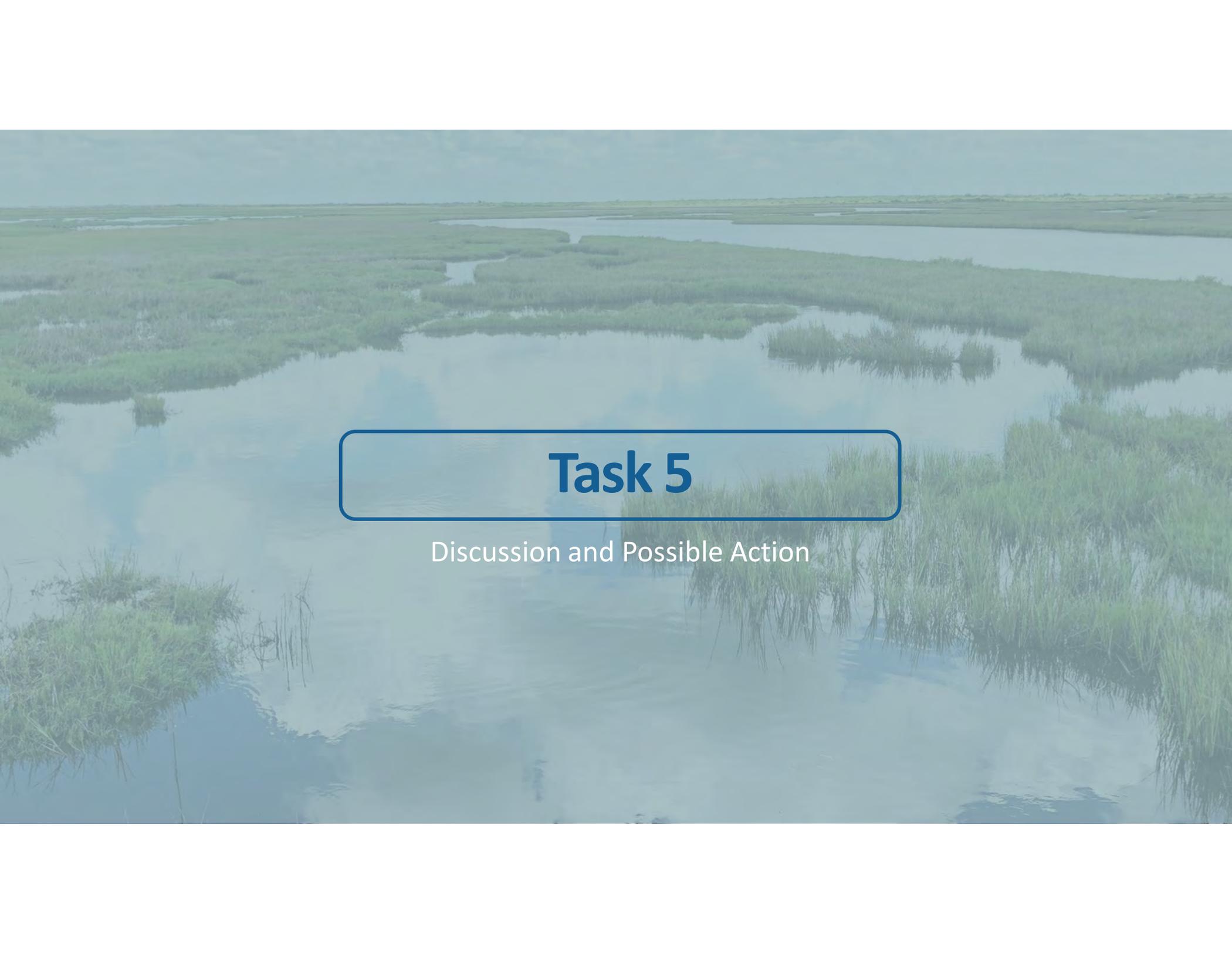
- Revised Section 7.3 to include additional information related to entities and actions certain entities (such as cities and counties) took or plan to take for recovery from past flood disasters in the region.



Task 10

Provided as separate document due to size

- Updated Section 10-4 to clarify meeting language and to incorporate public meeting summaries, updated Table 10-4 to reflect additional RFPG meetings, updated Table 10-5 regarding outreach
- Updated Appendix 10-C.2 to reflect comments made during regular meetings of the RFPG
- Appendix 10-C.3 will be updated as appropriate.
- Appendices 10-F, -G, and –H will include the final version of comments received on the Draft Flood Plan



Task 5

Discussion and Possible Action

FMPs Removed or Reclassified as FMEs

FMP ID Number	Name	Sponsor	Reason for Change
113000013	Wood Road/Landa Street Drainage Improvement	City of New Braunfels	Sponsor Request (FME)
113000057	Spring Street Erosion at Outfall Project	City of Kerrville	Model/Data gaps (FME)
113000058	Clay Street Drainage and Kroc Center Detention Pond Spillway	City of Kerrville	Model/Data gaps (FME)
113000059	Coronado Drive and Junction Highway Drainage Improvements	City of Kerrville	Model/Data gaps (FME)

New FMEs

FME ID Number	Name	Comment
111000139	Technical Study to Enhance Great Springs Project Regional Flood Mitigation	Sponsored by Edwards Aquifer Authority
111000140	City of Victoria WWTP Protection	Sponsor Request to Add
111000141	City of San Marcos KcKie Street and Will Springs	Sponsor Request to Add
111000142	City of San Marcos South LBJ Drive at Willow Springs	Sponsor Request to Add
111000143	Dewitt County Drainage District Cuero Levee	Sponsor Request to Add
111000144	City of New Braunfels Wood Road/Landa Street Drainage	Reclassified from FMP
111000145	Kendall County Guadalupe River Model Study	Sponsor Request to Add
111000146	Kendall County Stream Gauges and Flood Hazard Beacons	Sponsor Request to Add
111000147	City of Kerrville Spring Streek Project	Reclassified from FMP
111000148	City of Kerrville Clay Street Drainage and Kroc Center Detention Pond	Reclassified from FMP
111000149	City of Kerrville Coronado Drive and Junction Highway Drainage	Reclassified from FMP

Flood Management Evaluation (FME)



Title **Technical Study to Enhance Great Springs Project Regional Flood Mitigation**

ID# **111000139**

Sponsor (name of entity, not person) **Edwards Aquifer Authority**

RFPG recommend? Reason for Recommendation

Study Details

Study type **Watershed Planning**

Study description **The study will assess and quantify the flood mitigation impacts of an additional 50,000 acres of land conservation and trail development and identify possible modifications of open space and trail features to enhance flood mitigation.**

New Hydrologic or Hydraulic model? **No** Emergency Need? **No** Existing/Anticipated models in near term? **Yes**

County **Comal,Hays** Watershed HUC# (if known) **12100202,12100203**

Drainage area (Square miles, est.) **275** Goal(s) **11000003**

100-Year Flood Risk Summary

Population at risk **1,371** # of structures **382** Critical facilities **3**

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

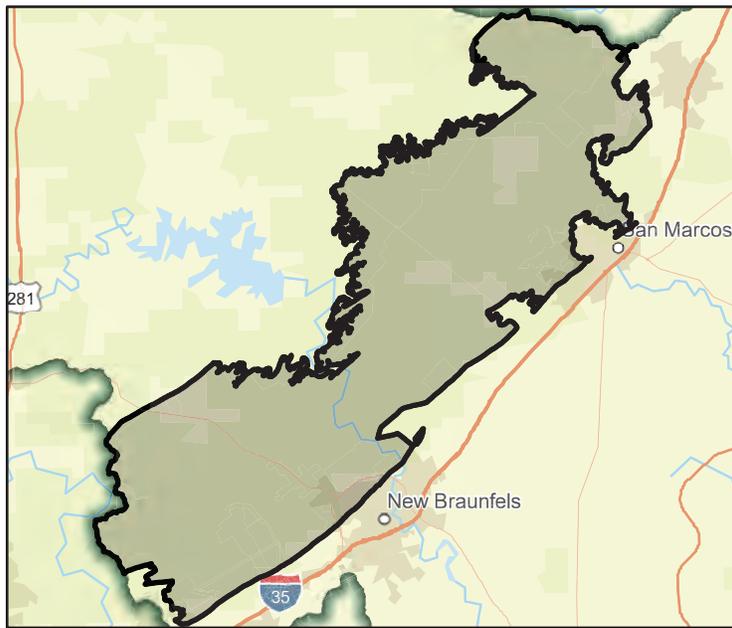
Farm/Ranch land impacted (acres) **6,858** Roadway(s) impacted (length) **19**

Number of low water crossings **44** Historical road closures **-**

Estimated Cost and Funding Availability

Total Cost **\$250,000** Amount of Available Funding **TBD** Federal funding availability **TBD**

Funding source **TBD**



FME Area



Regional view of FME area

Flood Management Evaluation (FME)



Title

ID#

Sponsor (name of entity, not person)

RFPG recommend? Reason for Recommendation

Study Details

Study type

Study description

New Hydrologic or Hydraulic model? Emergency Need? Existing/Anticipated models in near term?

County Watershed HUC# (if known)

Drainage area (Square miles, est.) Goal(s)

100-Year Flood Risk Summary

Population at risk # of structures Critical facilities

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

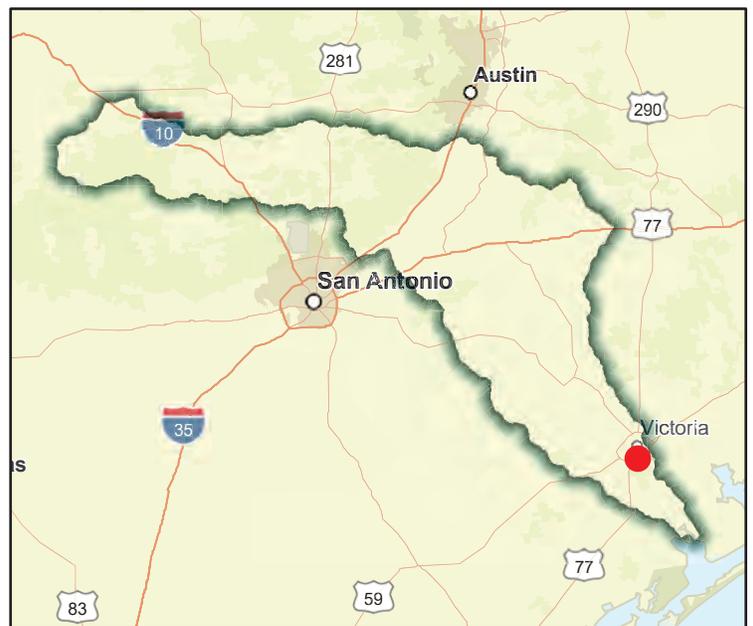
Estimated Cost and Funding Availability

Total Cost Amount of Available Funding Federal funding availability

Funding source



FME Area



Regional view of FME area

Flood Management Evaluation (FME)



Title **City of San Marcos McKie Street at Willow Springs Creek Project Planning**

ID# **111000141**

Sponsor (name of entity, not person) **San Marcos (Municipality)**

RFPG recommend? Reason for Recommendation

Study Details

Study type **Project Planning**

Study description **Alternatives analysis to determine if a feasible FMP exists at this location. Develop technical data required for FMPs.**

New Hydrologic or Hydraulic model? **Yes** Emergency Need? **No** Existing/Anticipated models in near term? **Yes**

County **Hays** Watershed HUC# (if known) **12100203**

Drainage area (Square miles, est.) **0** Goal(s) **11000001, 11000002**

100-Year Flood Risk Summary

Population at risk **0** # of structures **0** Critical facilities **0**

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

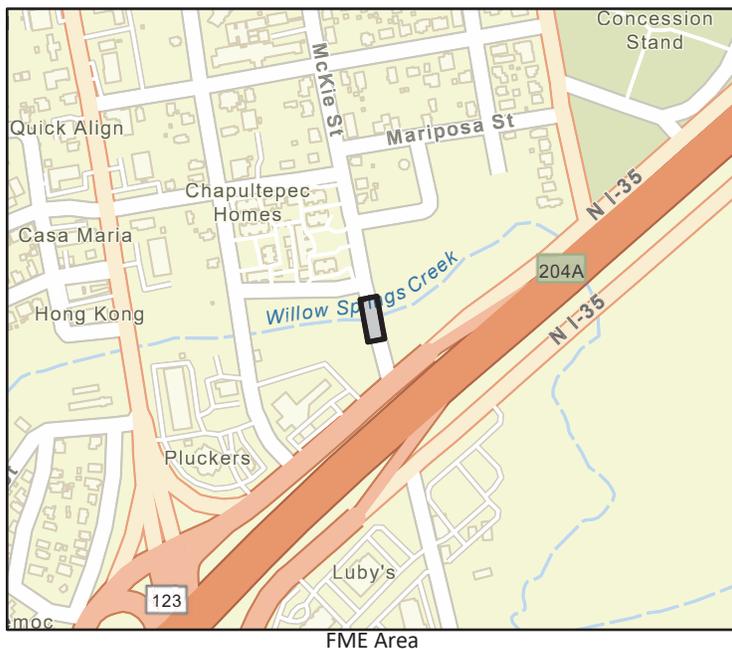
Farm/Ranch land impacted (acres) **0** Roadway(s) impacted (length) **0**

Number of low water crossings **1** Historical road closures **-**

Estimated Cost and Funding Availability

Total Cost **\$50,000** Amount of Available Funding **TBD** Federal funding availability **No**

Funding source **-**



Flood Management Evaluation (FME)



Title **City of San Marcos South LBJ Drive at Willow Springs Creek Project Planning**

ID# **111000142**

Sponsor (name of entity, not person) **San Marcos (Municipality)**

RFPG recommend? Reason for Recommendation

Study Details

Study type **Project Planning**

Study description **Alternatives analysis to determine if a feasible FMP exists at this location. Develop technical data required for FMPs.**

New Hydrologic or Hydraulic model? **Yes** Emergency Need? **No** Existing/Anticipated models in near term? **Yes**

County **Hays** Watershed HUC# (if known) **12100203**

Drainage area (Square miles, est.) **0** Goal(s) **11000001, 11000002**

100-Year Flood Risk Summary

Population at risk **0** # of structures **0** Critical facilities **0**

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

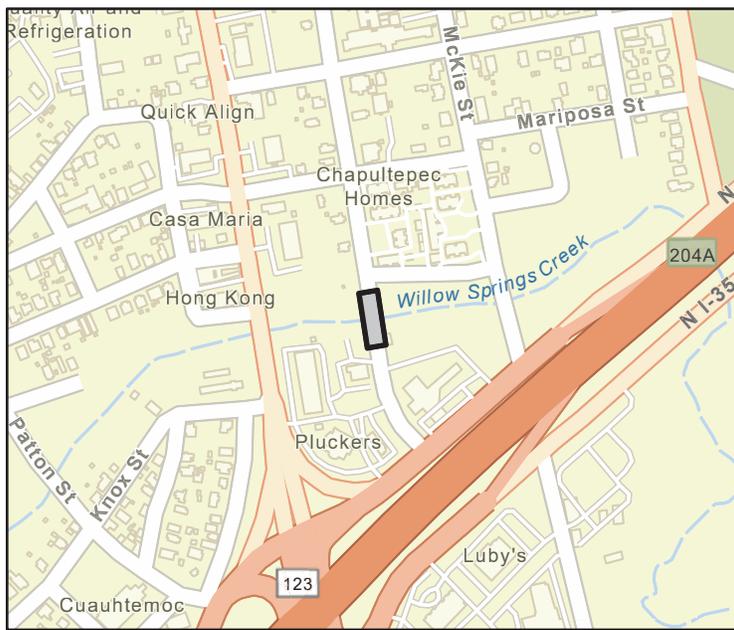
Farm/Ranch land impacted (acres) **0** Roadway(s) impacted (length) **0**

Number of low water crossings **1** Historical road closures **-**

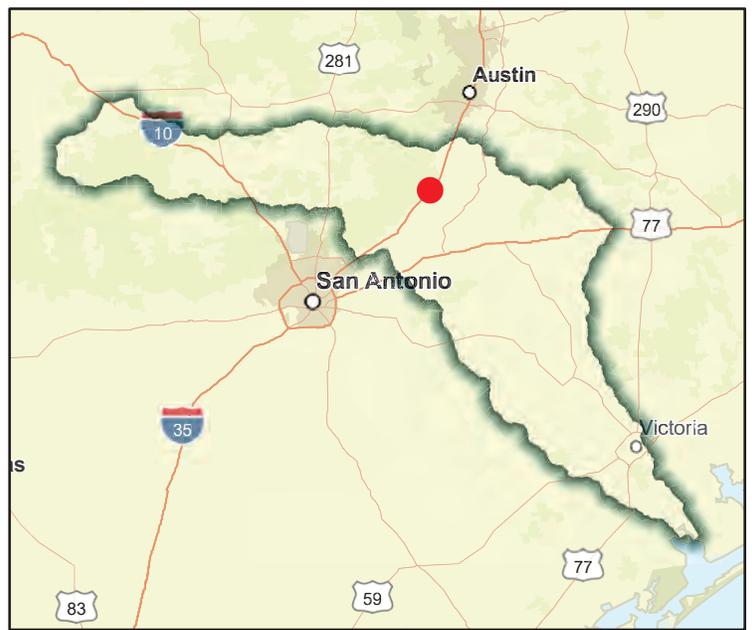
Estimated Cost and Funding Availability

Total Cost **\$50,000** Amount of Available Funding **TBD** Federal funding availability **No**

Funding source **-**



FME Area



Regional view of FME area

Flood Management Evaluation (FME)



Title **Dewitt County Drainage District 1 Cuero Levee Study**

ID# **111000143**

Sponsor (name of entity, not person) **Dewitt County Drainage District 1**

RFPG recommend? Reason for Recommendation

Study Details

Study type **Project Planning**

Study description **Feasibility study of potential levee to protect City from river flooding with risk to life/safety and catastrophic damage, as has been experienced in Cuero on numerous occasions.**

New Hydrologic or Hydraulic model? **Yes** Emergency Need? **No** Existing/Anticipated models in near term? **Yes**

County **De Witt** Watershed HUC# (if known) **12100202,12100204**

Drainage area (Square miles, est.) **7** Goal(s) **11000009, 11000010**

100-Year Flood Risk Summary

Population at risk **5,110** # of structures **1,991** Critical facilities **10**

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

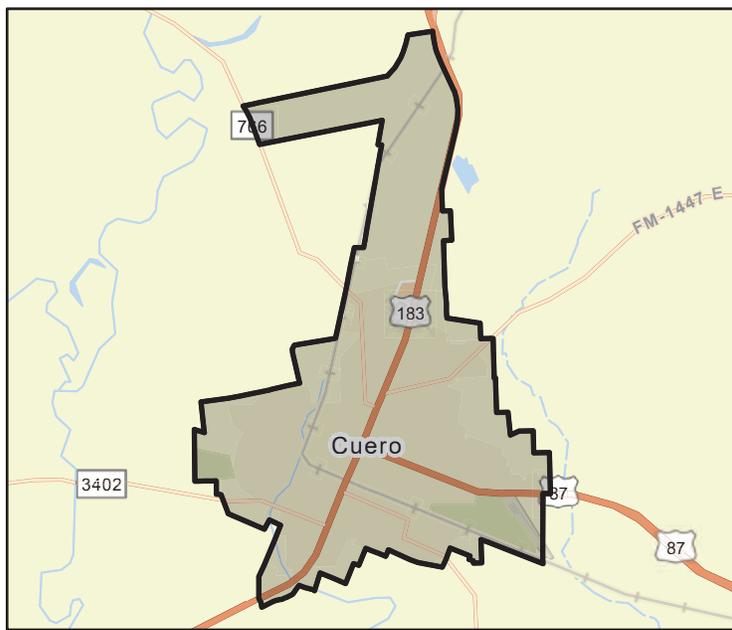
Farm/Ranch land impacted (acres) **116** Roadway(s) impacted (length) **35**

Number of low water crossings **2** Historical road closures **-**

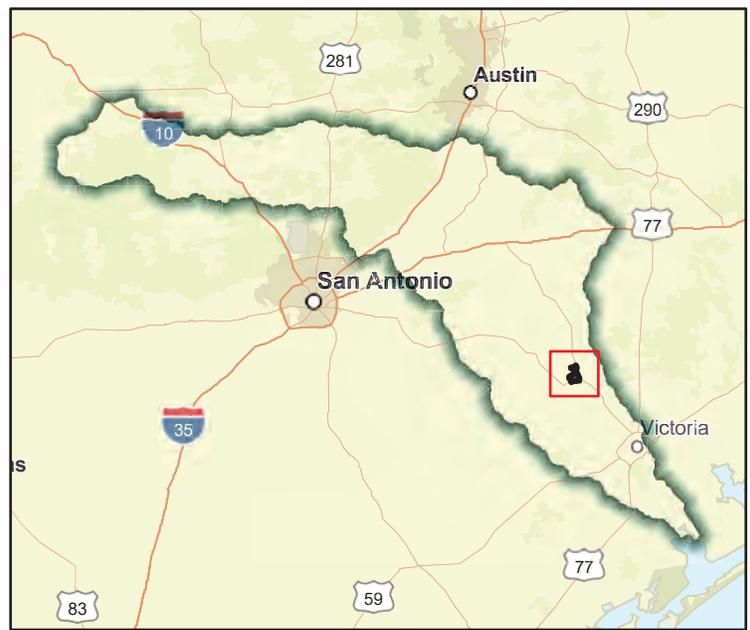
Estimated Cost and Funding Availability

Total Cost **\$250,000** Amount of Available Funding **TBD** Federal funding availability **No**

Funding source **-**



FME Area



Regional view of FME area

Flood Management Evaluation (FME)



Title **City of New Braunfels Wood Road/Landa Street Drainage Improvement**

ID# **111000144**

Sponsor (name of entity, not person) **New Braunfels (Municipality)**

RFPG recommend? Reason for Recommendation

Study Details

Study type **Project Planning**

Study description **Project planning for drainage improvement project to capture runoff east of Walnut Avenue and detains it in a 12-acre detention pond with 144 acre-feet of storage capacity. The pond outfall structure discharges to an existing channel south of Wood Road.**

New Hydrologic or Hydraulic model? **Yes** Emergency Need? **No** Existing/Anticipated models in near term? **Yes**

County **Comal** Watershed HUC# (if known) **12100202**

Drainage area (Square miles, est.) **0** Goal(s) **11000009, 11000010**

100-Year Flood Risk Summary

Population at risk **667** # of structures **47** Critical facilities **0**

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

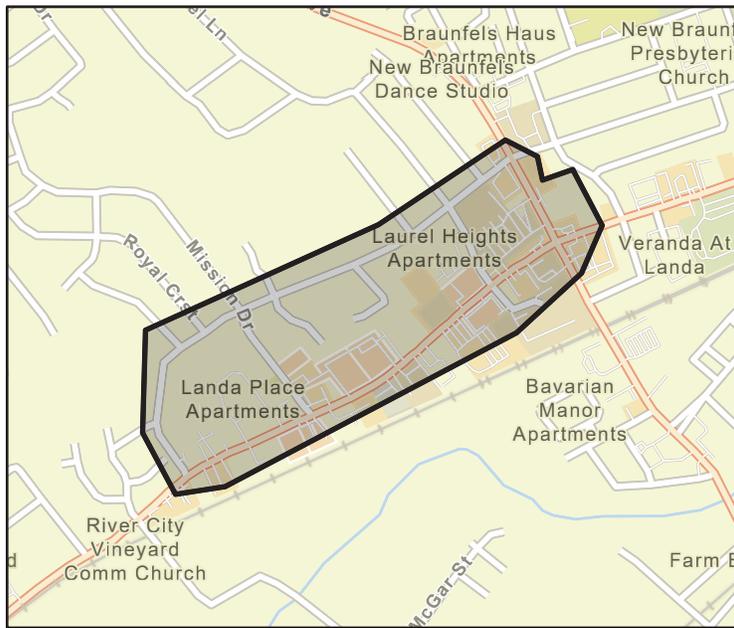
Farm/Ranch land impacted (acres) **0** Roadway(s) impacted (length) **1**

Number of low water crossings **0** Historical road closures **-**

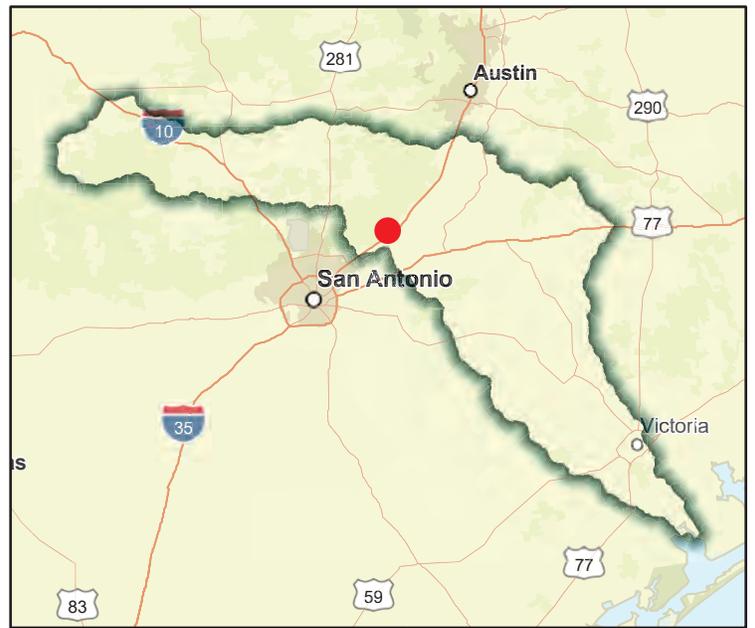
Estimated Cost and Funding Availability

Total Cost **\$3,575,700** Amount of Available Funding **TBD** Federal funding availability **No**

Funding source **-**



FME Area



Regional view of FME area

Flood Management Evaluation (FME)



Title **Kendall County Guadalupe River Model Study**

ID# **111000145**

Sponsor (name of entity, not person) **Kendall (County)**

RFPG recommend? Reason for Recommendation

Study Details

Study type **Watershed Planning**

Study description **Study to complete an HH model for all of the Guadalupe River within Kendall County.**

New Hydrologic or Hydraulic model? **Yes** Emergency Need? **No** Existing/Anticipated models in near term? **Yes**

County **Kendall** Watershed HUC# (if known) **12100201,12100203**

Drainage area (Square miles, est.) **661** Goal(s) **11000009, 11000010**

100-Year Flood Risk Summary

Population at risk **2,574** # of structures **1,374** Critical facilities **3**

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

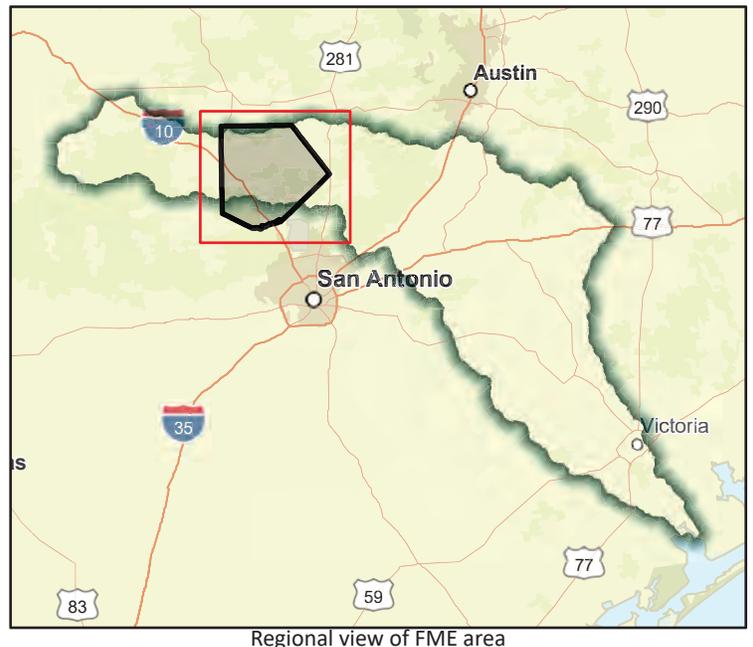
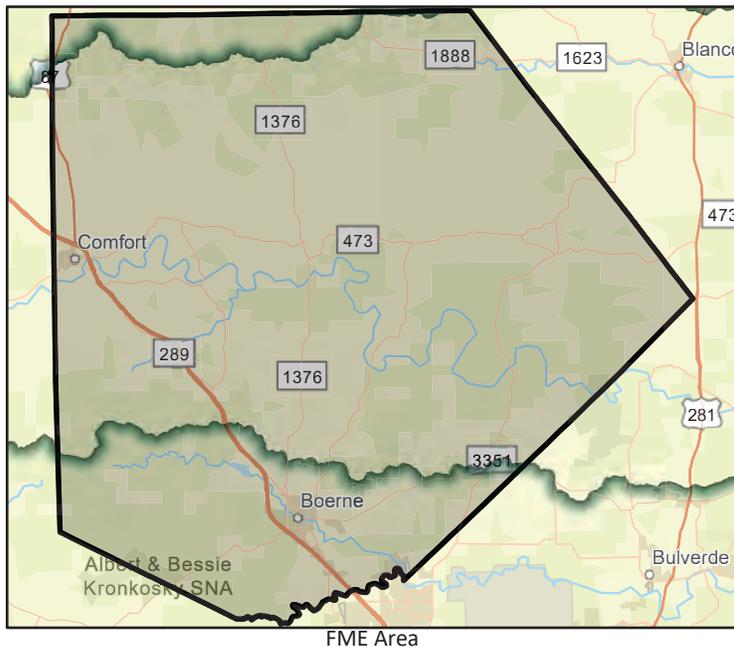
Farm/Ranch land impacted (acres) **24,198** Roadway(s) impacted (length) **44**

Number of low water crossings **28** Historical road closures **-**

Estimated Cost and Funding Availability

Total Cost **\$250,000** Amount of Available Funding **TBD** Federal funding availability **No**

Funding source **-**



Flood Management Evaluation (FME)



Title **Kendall County Stream Gauges and Flood Hazard Beacons**

ID# **111000146**

Sponsor (name of entity, not person) **Kendall (County)**

RFPG recommend? Reason for Recommendation

Study Details

Study type **Preparedness**

Study description **Study to evaluate locations for stream gauges and flood hazard beacons.**

New Hydrologic or Hydraulic model? **Yes** Emergency Need? **No** Existing/Anticipated models in near term? **Yes**

County **Kendall** Watershed HUC# (if known) **12100201,12100203**

Drainage area (Square miles, est.) **661** Goal(s) **11000001, 11000002**

100-Year Flood Risk Summary

Population at risk **2,574** # of structures **1,374** Critical facilities **3**

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

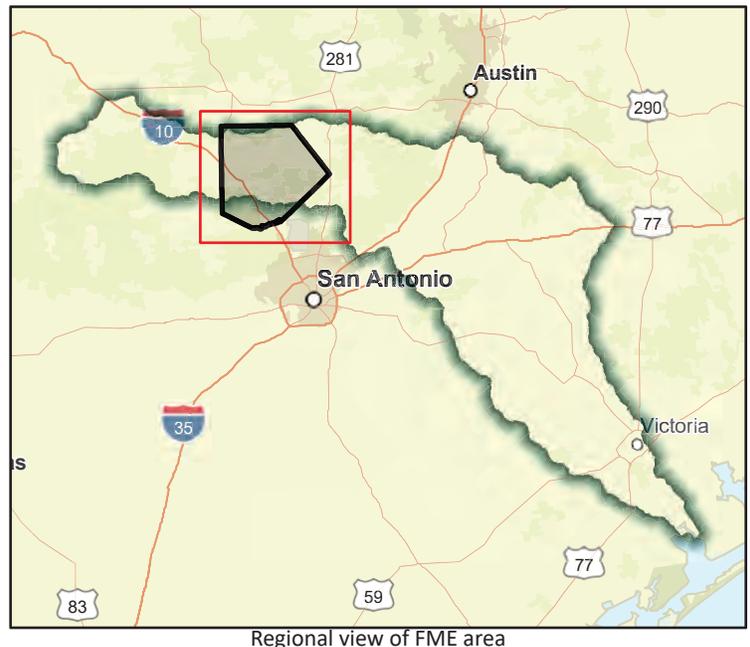
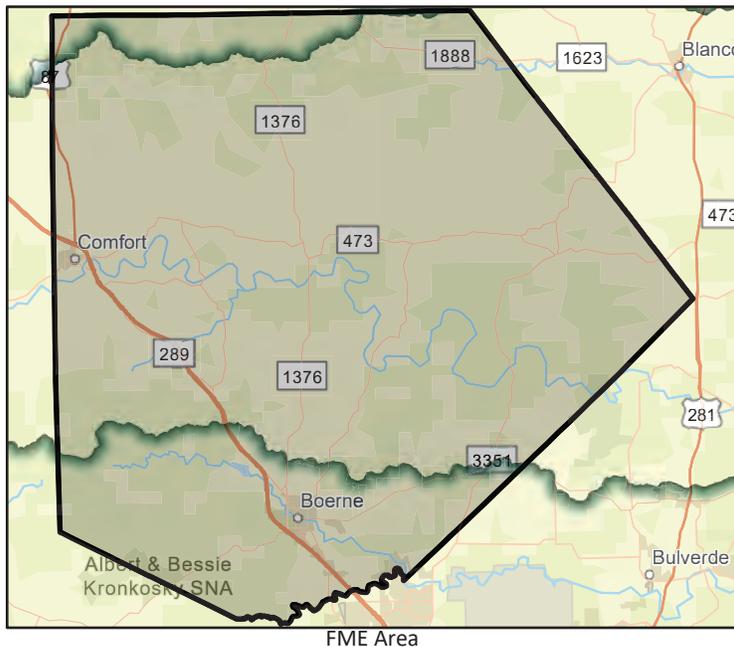
Farm/Ranch land impacted (acres) **24,198** Roadway(s) impacted (length) **44**

Number of low water crossings **28** Historical road closures **-**

Estimated Cost and Funding Availability

Total Cost **\$150,000** Amount of Available Funding **TBD** Federal funding availability **No**

Funding source **-**



Flood Management Evaluation (FME)



Title

ID#

Sponsor (name of entity, not person)

RFPG recommend? Reason for Recommendation

Study Details

Study type

Study description

New Hydrologic or Hydraulic model? Emergency Need? Existing/Anticipated models in near term?

County Watershed HUC# (if known)

Drainage area (Square miles, est.) Goal(s)

100-Year Flood Risk Summary

Population at risk # of structures Critical facilities

Flood risk type: Riverine? Coastal? Local? Playa? Other?

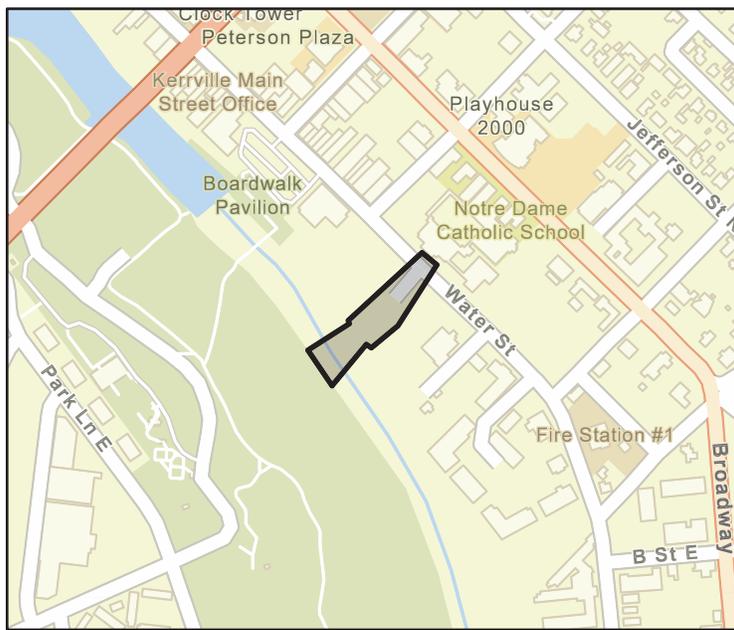
Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

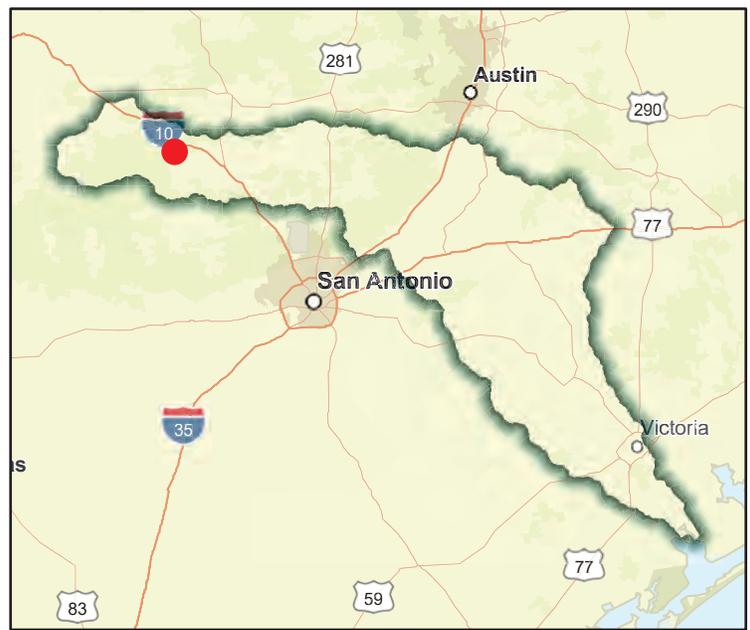
Estimated Cost and Funding Availability

Total Cost Amount of Available Funding Federal funding availability

Funding source



FME Area



Regional view of FME area

Flood Management Evaluation (FME)



Title **City of Kerrville Clay Street Drainage and Kroc Center Detention Pond Spillway Improvements**

ID# **111000148**

Sponsor (name of entity, not person) **Kerrville (Municipality)**

RFPG recommend? Reason for Recommendation

Study Details

Study type **Project Planning**

Study description **Develop required technical data for FMP. Project planning for detention pond spillway improvement project.**

New Hydrologic or Hydraulic model? **Yes** Emergency Need? **No** Existing/Anticipated models in near term? **Yes**

County **Kerr** Watershed HUC# (if known) **12100201**

Drainage area (Square miles, est.) **0** Goal(s) **11000001, 11000002, 11000009, 11000010**

100-Year Flood Risk Summary

Population at risk **0** # of structures **0** Critical facilities **0**

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

Farm/Ranch land impacted (acres) **0** Roadway(s) impacted (length) **0**

Number of low water crossings **0** Historical road closures **-**

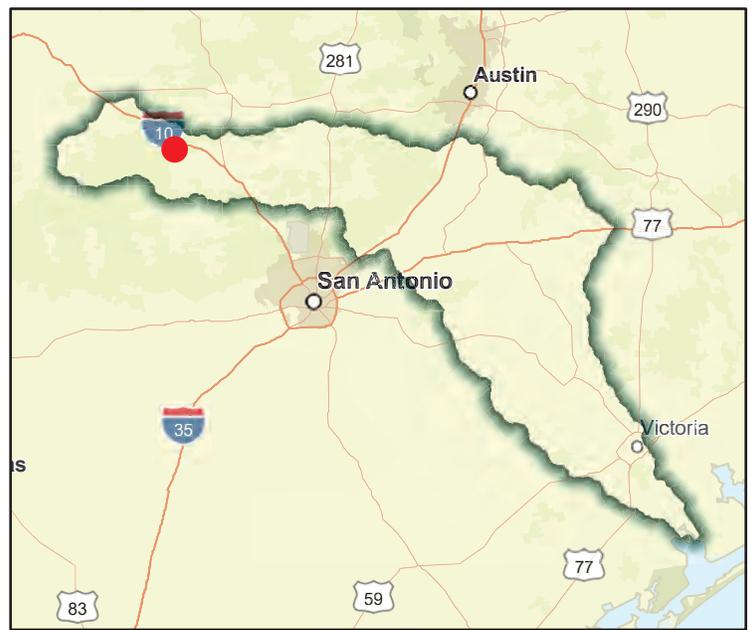
Estimated Cost and Funding Availability

Total Cost **\$15,000** Amount of Available Funding **TBD** Federal funding availability **No**

Funding source **-**



FME Area



Regional view of FME area

Flood Management Evaluation (FME)



Title **City of Kerrville Coronado Drive and Junction Highway Drainage Improvements**

ID# **111000149**

Sponsor (name of entity, not person) **Kerrville (Municipality)**

RFPG recommend? Reason for Recommendation

Study Details

Study type **Project Planning**

Study description **Develop required technical data for FMP. Project planning for street and drainage improvement project.**

New Hydrologic or Hydraulic model? **Yes** Emergency Need? **No** Existing/Anticipated models in near term? **Yes**

County **Kerr** Watershed HUC# (if known) **12100201**

Drainage area (Square miles, est.) **0** Goal(s) **11000001, 11000002, 11000009, 11000010**

100-Year Flood Risk Summary

Population at risk **70** # of structures **9** Critical facilities **0**

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

Farm/Ranch land impacted (acres) **0** Roadway(s) impacted (length) **0**

Number of low water crossings **0** Historical road closures **-**

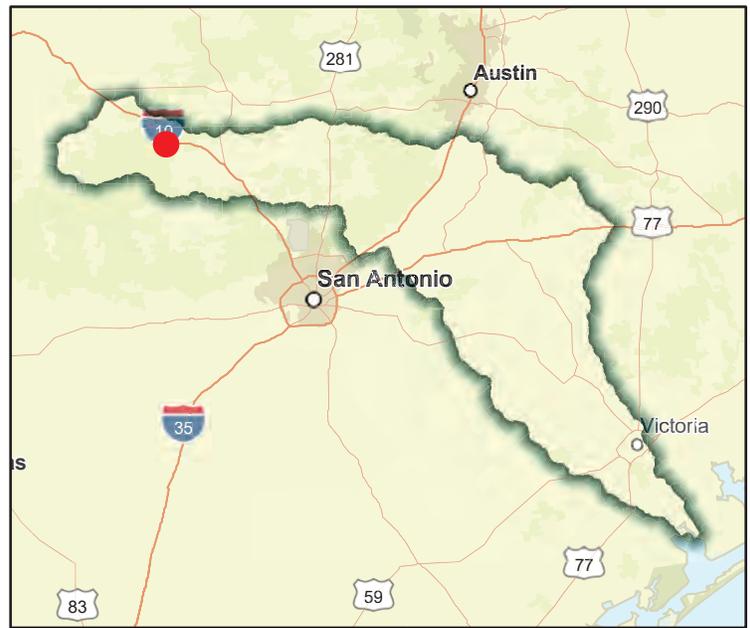
Estimated Cost and Funding Availability

Total Cost **\$15,000** Amount of Available Funding **TBD** Federal funding availability **No**

Funding source **-**



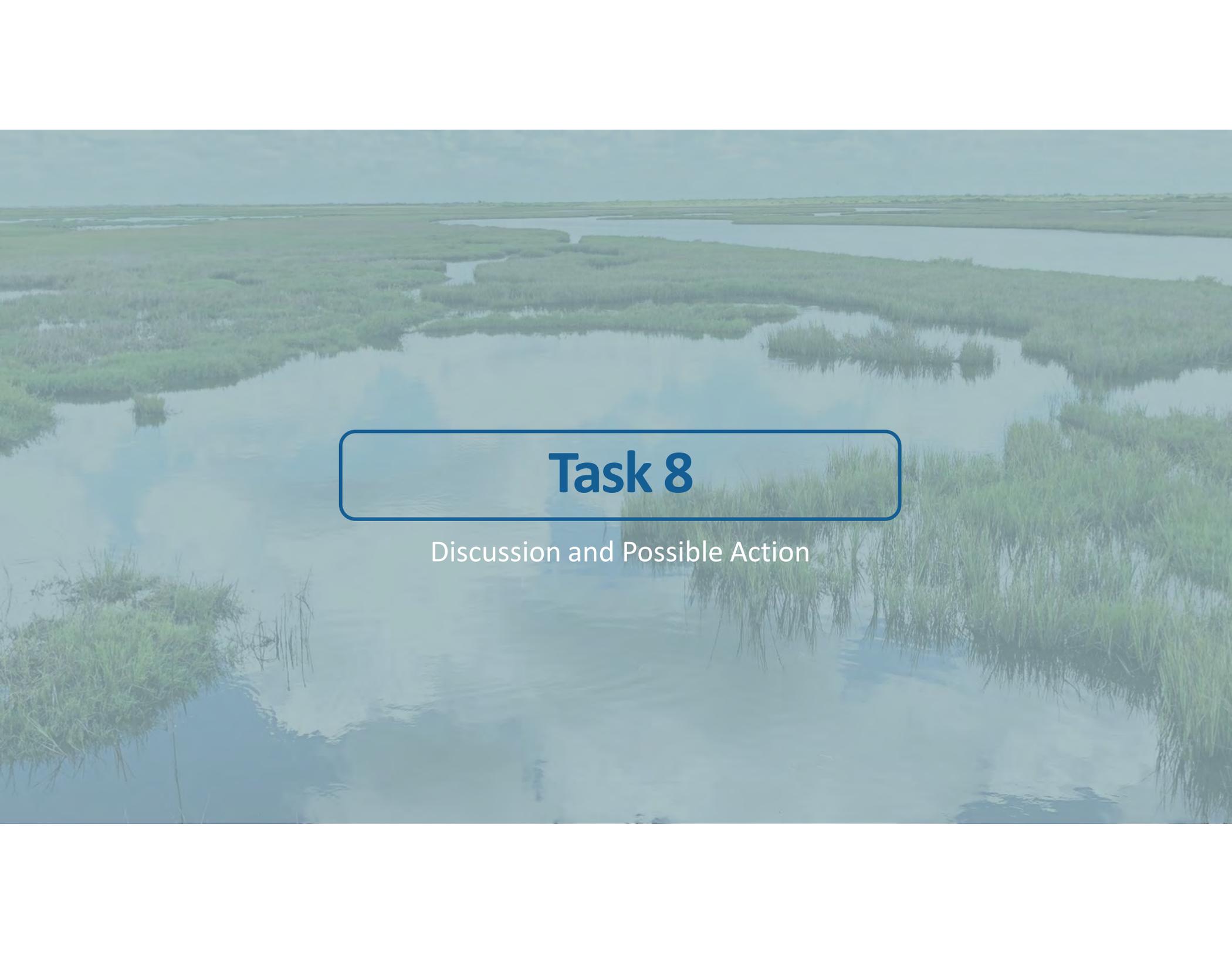
FME Area



Regional view of FME area

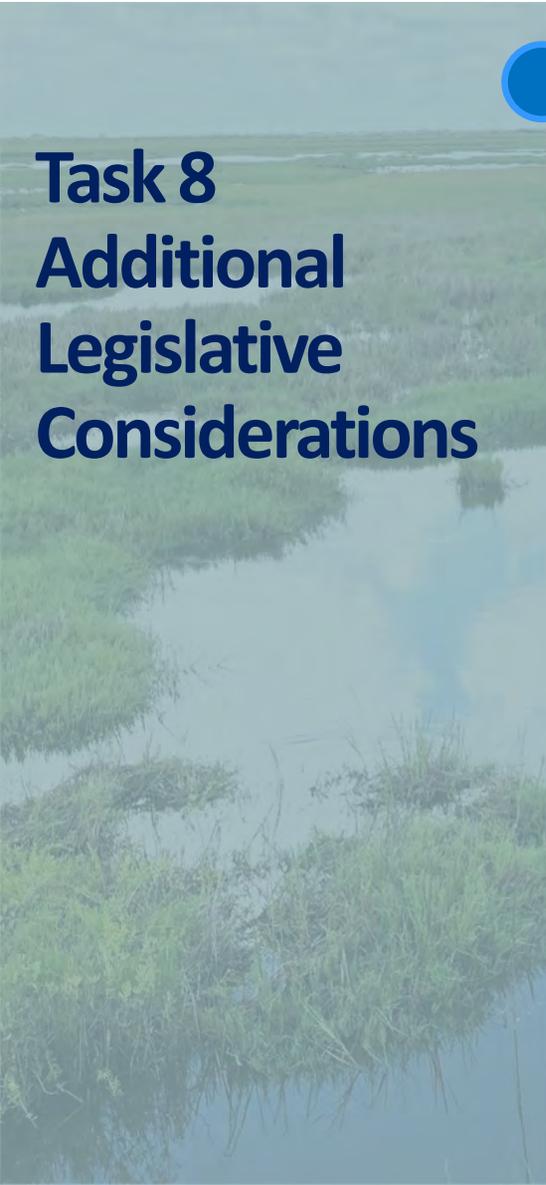
Potential Future FMXs

Name	From	Timing
Using GIS Modeling of Karst Features to Identify Land for Preservation	Greater Edwards Aquifer Alliance	Amended
Basin-wide analysis on the flood mitigation value of select nature-based solutions (NBS)	The Nature Conservancy /Greater Edwards Aquifer Alliance	Amended
Caldwell County Projects (TBD)	Caldwell County	Amended
Great Springs Projects	Edwards Aquifer Authority	Final
Regional WWW Plant Protection	Victoria	Final
Cypress Regional Detention FMP (FME almost complete)	Kendall County	Amended
Guadalupe River H/H	Kendall County	Final
Stream Gauges and Flood Hazard Beacons	Kendall County	Final
?	San Marcos River Foundation	Amended



Task 8

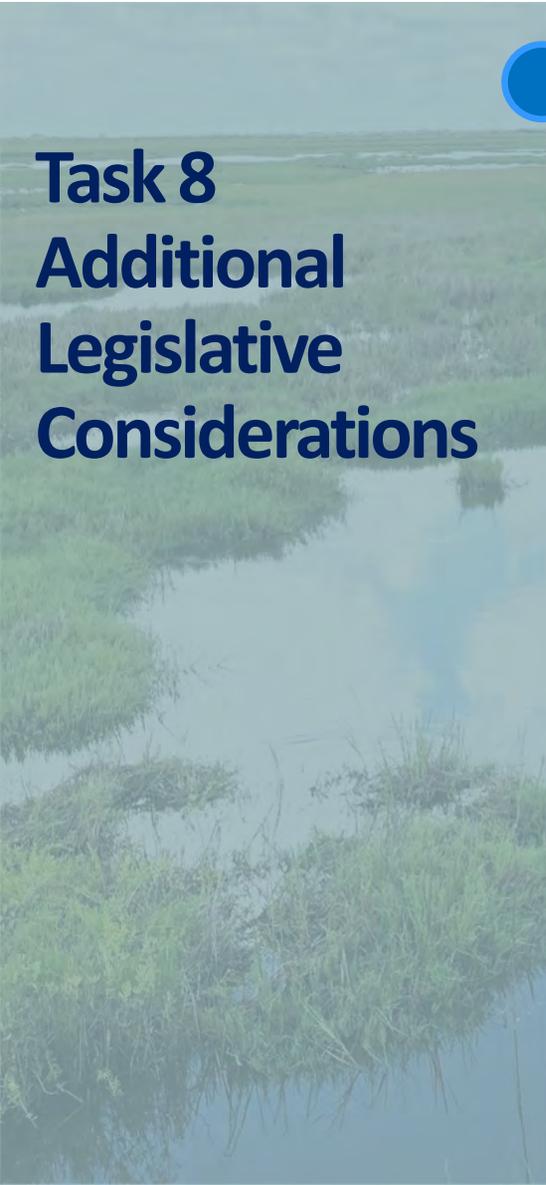
Discussion and Possible Action



Task 8 Additional Legislative Considerations

Change the legislation pertaining to Drainage Districts to allow the expansion of the authorized area of the Drainage District, specifically DeWitt County Drainage District No. 1, to expand to the watershed boundaries, instead of the current restriction to city. I think this should be a legislative action. I believe this issue may fit into the category of Flood Management Strategy.

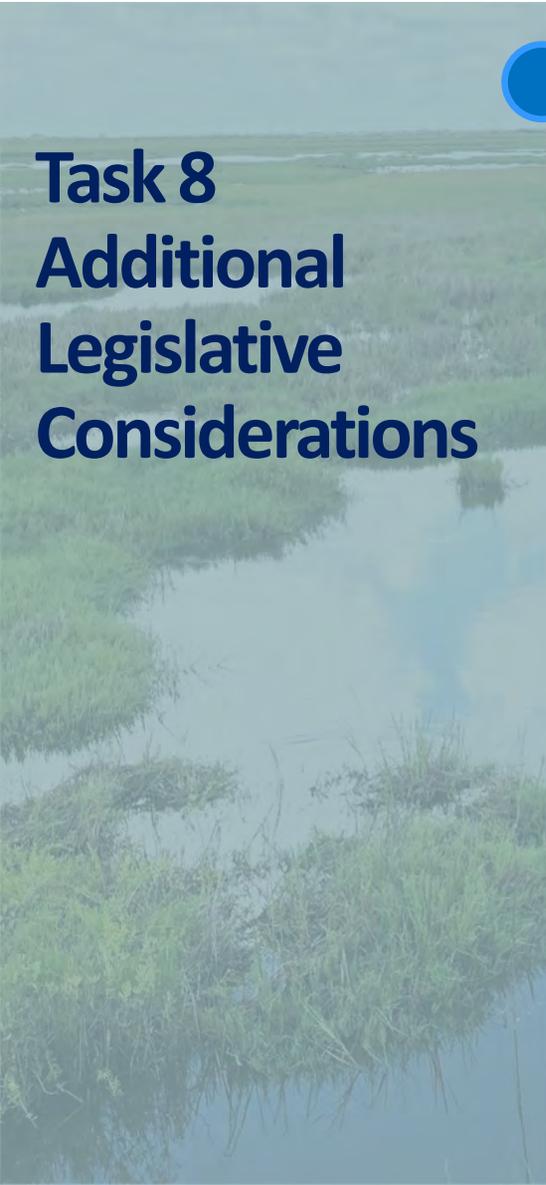
Background: Limit area of operation does not include upstream watershed, DCDD1 must deal with flows but no ability to regulate 2/3 of watershed (upstream). Other States and Jurisdictions recognize limits and use watershed boundaries.



Task 8 Additional Legislative Considerations

Modify funding rules to identify Drainage Districts as qualified entities for receipt of Community Development Block Grant Mitigation Action Plan funding.

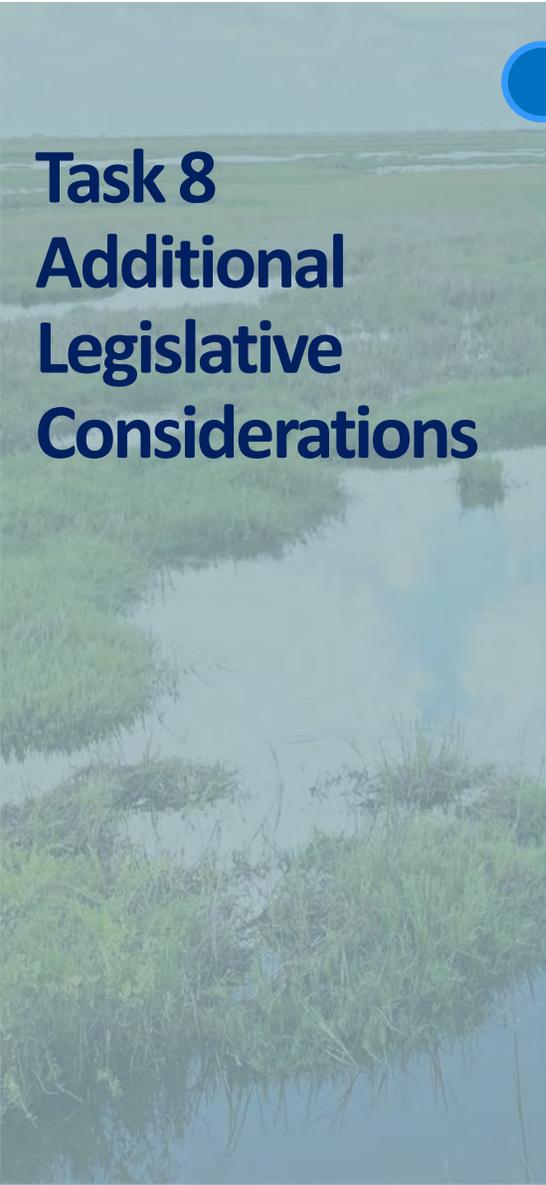
Background: Past and current CDBG-MIT funds to the Golden Crescent Regional Planning Commission do not list Drainage Districts as qualified entities although they are designated by the State.



Task 8 Additional Legislative Considerations

Clarify legislation that provides counties the authority to regulate floodplains to explicitly allow and encourage activities associated with floodplain management such as development of land use plans and regulatory authorities such as permitting.

Background: State legislation was amended in 1999 to require all cities and counties to adopt ordinances or orders to become eligible to participate in the NFIP. Legislation gave Counties the ability to regulate floodplains but interpretation varies widely. The legislative bill lacks implementation guidance in the form of administrative rules.



Task 8 Additional Legislative Considerations

Non regulatory regional flood control or drainage districts should be established and funded for rapidly growing urban areas.

Background: These organizations would augment communities and counties that just don't have the resources and expertise to manage flooding (provide consistency, technical resources, funding, reviews, implement or support implementation of FMP's).

RFPG considered a similar recommendation but did not include in the Draft Region 11 Plan



Task 12

Discussion and Possible Action

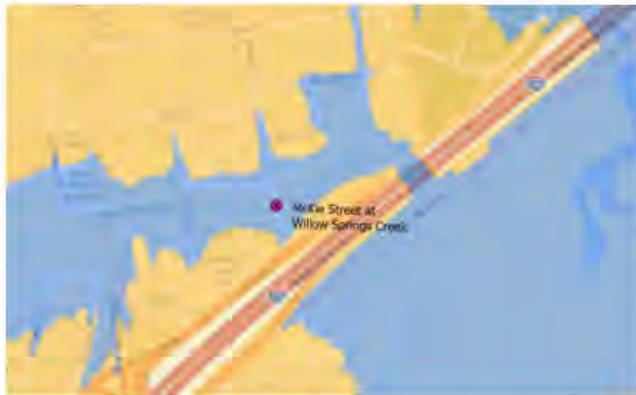
**SCOPE AND BUDGET TO PERFORM FMEs
GUADALUPE REGIONAL FLOOD PLANNING GROUP**

FME ID	Title	County	Sponsor
111000141	McKie Street at Willow Springs Creek	Hays	City of San Marcos

Study Objectives:

The McKie Street culvert crossing of Willow Springs Creek is located just north of IH-35 on the South Side of San Marcos, Texas. The existing crossing consists of (2) 54" x 43" CMP culverts and a 4'x4' (estimated) RCB and is overtopped in storms more frequent than the 50% annual chance (2-year) flood event. This crossing was identified as a significant flood problem area in the City's 2017 Comprehensive Watershed Master Plan and is included in the City's FY2021-2030 Ten Year CIP. The City wishes to reduce the frequency of overtopping by elevating the roadway and improvement flood conveyance with a bridge or culvert upgrade.

Per the preliminary DFIRM (48209C0481G) and FIS (48209CV001B) dated October 29, 2019, approximately 700 feet of McKie Street is located within the Zone AE SFHA at the Willow Springs Creek Crossing. Based on flood profiles included in the preliminary FIS, the road surface (approx. elevation 567 ft NAVD88) at the crossing is overtopped by approximately 3 feet in the 10% annual chance (10-year) flood event. The flood profiles also show that the crossing is subject to backwater flooding from the San Marcos River confluence located approximately 3,600 feet downstream (more than 7 feet above road surface in the 100-year storm event). Since the study supporting the preliminary DFIRM update did not include NOAA Atlas 14 precipitation data, overtopping depths and frequencies are likely significantly greater.



The City of San Marcos has developed HEC-HMS, HEC-RAS, and Innovyze InfoWorks ICM 2D floodplain models of Willow Springs Creek including NOAA Atlas 14 precipitation depths and the most recently available 2017 Central Texas LIDAR data. These models are considered best available data and will be used as the basis for this study in order to develop conceptual crossing upgrades including multiple culvert

and bridge configurations. Alternatives analysis will be performed to determine if a feasible FMP exists at this location. Deliverables for this study will include:

- Updated hydrologic and hydraulic modeling of existing and proposed conditions;
- Analysis of alternatives including alternative models, flood risk reduction benefits, and no adverse impact analysis;
- A detailed cost estimate of each alternative;
- A cost-benefit analysis for each alternative using the TWDB BCA tools;
- Sealed technical memorandum summarizing the analysis and all findings and results including an
- Analysis of potential permitting and environmental constraints.

Required Information for FMP

Sources of information for this FME will come primarily from the City of San Marcos' local regulatory floodplain models (HMS, RAS, ICM) and as-built information.

Sponsor Outreach:

The City of San Marcos (Mr. John Espinoza, PE, CFM) was contacted on October 27th, 2022, and is supportive of this low water crossing improvement project. The City is willing to share historical and best available data required to complete this FME. Additional data needs, results, and recommendations will be coordinated on an ongoing basis with the City as the project progresses.

Scope and Budget:

Task	Estimated Cost	Estimated Time to Complete
Task 1 – Data Collection/site visits	\$4,000	1 week
Task 2 – Update H&H modeling	\$5,000	2 weeks
Task 3 – Update preliminary design or alternatives analysis	\$15,000	4 weeks
Task 4 – Evaluate flood risk reduction benefits	\$4,000	1 week
Task 5 – Verify no negative impacts	\$3,000	1 week
Task 6 – Develop/update cost estimate	\$3,000	1 week
Task 7 – Complete cost-benefit analysis	\$5,000	1 week
Task 8 – Evaluate potential constraints	\$3,500	2 weeks
Task 9 – Document results (sealed technical memorandum)	\$6,000	4 weeks
Totals	\$48,500	17 weeks

Recommendation:

- Proceed Do not Proceed Technical Committee Concurrence RFRG Approval

Prepared by: Colin Slagle

Date: 11/16/22



Look Ahead

Meeting	Milestone Goals
December	December 19 Issue Final Draft to RFPG (sooner if possible) December 30 Final RFPG Member comments due
January	January 4 Adopt Plan and Approve for Submittal January 10 Regional Flood Plan due to TWDB
July	July 14 Amended Regional Flood Plan Due

Agenda Item 10

Consider date and agenda items for next meeting

Wednesday, January 4th at 2pm – GBRA, Seguin

Wednesday, February 1st at 2pm – GBRA, Seguin

Wednesday, March 1st at 2pm – GBRA, Seguin

Agenda Item 11

Public General Comments

Public Comments limited to 3 minutes per speaker

Agenda Item 12

Adjourn