

**Batch 2B**

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# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment   
Technical committee recommend  RFPG recommend

REGION 10

Study Type

### Problem Area

City  County   
Watershed Name   
Tributary(ies)   
HUC#  Stream miles (est.)   
Drainage area: square miles, est.  or acreage, est.   
Social vulnerability index   
Other



### Flood Risk Description

Creek Street overtops by approximately 11 feet during the 100-year event. The city has identified this crossing as a candidate for a flood early warning systems because improving the roadway/crossing in not feasible.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Evaluate the type of flood early warnings system (flashers, barricades, signage) and communication systems requirements for the installation and long-term maintenance of the system. Include hydrologic and hydraulic modeling (if needed) including duration and frequency of flooding, daily traffic counts, and length of detour (minutes),

### Related Goal(s)

- 2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., LCRA Hydromet, City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.
- 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

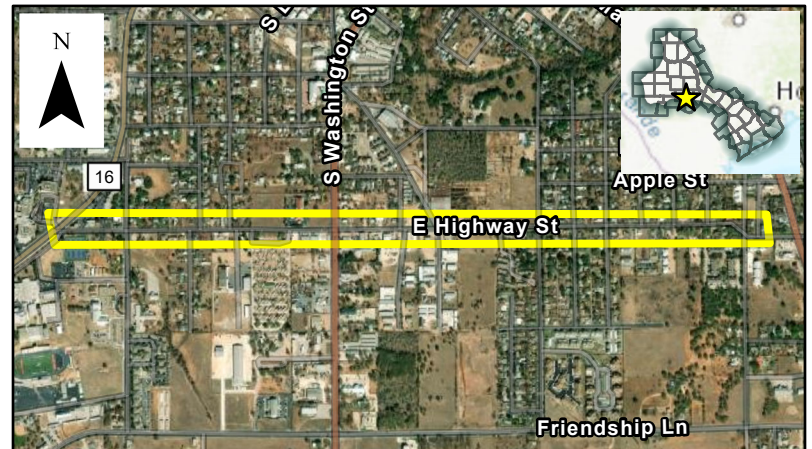
Title  ID#   
Sponsor (name of entity)  Commitment   
Technical committee recommend  RFPG recommend

REGION 10

Study Type

### Problem Area

City  County   
Watershed Name   
Tributary(ies)   
HUC#  Stream miles (est.)   
Drainage area: square miles, est.  or acreage, est.   
Social vulnerability index   
Other



### Flood Risk Description

The existing crossing is undersized and overtops. The proposed improvements include a vegetated channel system with multi-box (2) culverts and storm drain system. The existing road is a 2-lane road with an average daily traffic count of 9,535.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title **Trailmoor near Llano Hwy** ID# **101000048**  
Sponsor (name of entity) **Fredericksburg (Municipality)** Commitment **Yes**  
Technical committee recommend **TBD** RFPG recommend **TBD**

REGION 10

Study Type **Other**

### Problem Area

City **Fredericksburg** County **Gillespie**  
Watershed Name **Barons Creek**  
Tributary(ies) **Town Creek**  
HUC# **12090206** Stream miles (est.) **TBD**  
Drainage area: square miles, est **0.26** or acreage, est. **168**  
Social vulnerability index **0.1**  
Other **Drainage System Improvements**



### Flood Risk Description

The watershed currently does not have a stormwater system throughout. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion.

Population at risk **209** Structures at risk **11** Critical facilities at risk **0**  
Farm/Ranch land impacted (acres) **12** Roadway(s) impacted (miles) **0.23**

### Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas and flood risk reduction measures (e.g., alternatives analysis and preliminary engineering). 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

### Estimated Study Cost

Cost **\$250,000** Potential funding source(s) **-**



# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment   
Technical committee recommend  RFPG recommend

REGION 10

Study Type

### Problem Area

City  County   
Watershed Name   
Tributary(ies)   
HUC#  Stream miles (est.)   
Drainage area: square miles, est.  or acreage, est.   
Social vulnerability index   
Other



### Flood Risk Description

Lady Bird Street acts as a small in-channel dam. There is little freeboard and the road overtops frequently. The city has identified this crossing as a candidate for a flood early warning systems because improving the roadway/crossing is not feasible.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Evaluate the type of flood early warnings system (flashers, barricades, signage) and communication systems requirements for the installation and long-term maintenance of the system. Include hydrologic and hydraulic modeling (if needed) including duration and frequency of flooding, daily traffic counts, and length of detour (minutes).

### Related Goal(s)

- 2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., LCRA Hydromet, City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.
- 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment   
Technical committee recommend  RFPG recommend

REGION 10

Study Type

### Problem Area

City  County   
Watershed Name   
Tributary(ies)   
HUC#  Stream miles (est.)   
Drainage area: square miles, est.  or acreage, est.   
Social vulnerability index   
Other



### Flood Risk Description

There is existing erosion along the Pedernales River Tributary 2 near the City's Emergency Management System building that is threatening utilities servicing the building and nearby residential structures.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title **Bob White Trail** ID# **101000051**  
Sponsor (name of entity) **Fredericksburg (Municipality)** Commitment **Yes**  
Technical committee recommend **TBD** RFPG recommend **TBD**

REGION 10

Study Type **Other**

### Problem Area

City **Fredericksburg** County **Gillespie**  
Watershed Name **Muesebach Creek - Pedernales River**  
Tributary(ies) **Unnamed Tributary**  
HUC# **12090206** Stream miles (est.) **TBD**  
Drainage area: square miles, est **0.01** or acreage, est. **4**  
Social vulnerability index **0.1**  
Other **Roadway/Crossing Improvements & Storm Drainage System**



### Flood Risk Description

The existing crossing is undersized and overtops. The existing crossing is a corrugated metal pipe crossing. The proposed improvements include a multi-pipe (2) culvert. The existing road is a 2-lane road with an average daily traffic count of 265.

Population at risk **-TBD** Structures at risk **-TBD** Critical facilities at risk **-TBD**  
Farm/Ranch land impacted (acres) **-TBD** Roadway(s) impacted (miles) **-TBD**

### Scope of Study

Conduct a study to evaluate upsizing the existing culvert crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadway

### Estimated Study Cost

Cost **\$100,000** Potential funding source(s) **-**

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title **W Travis Low Water Crossing** ID# **101000052**  
Sponsor (name of entity) **Fredericksburg (Municipality)** Commitment **Yes**  
Technical committee recommend **TBD** RFPG recommend **TBD**

**REGION 10**

**Study Type** **Project Planning**

### Problem Area

City **Fredericksburg** County **Gillespie**  
Watershed Name **Barons Creek**  
Tributary(ies) **Town Creek**  
HUC# **12090206** Stream miles (est.) **TBD**  
Drainage area: square miles, est **0.00** or acreage, est. **0**  
Social vulnerability index **0.1**  
Other **Install Flood Early Warning System**



### Flood Risk Description

W. Travis Street has an undersized culvert and overtops frequently. The city has identified this crossing as a candidate for a flood early warning systems because improving the roadway/crossing in not feasible.

Population at risk **-TBD** Structures at risk **-TBD** Critical facilities at risk **-TBD**  
Farm/Ranch land impacted (acres) **-TBD** Roadway(s) impacted (miles) **0.00**

### Scope of Study

Evaluate the type of flood early warnings system (flashers, barricades, signage) and communication systems requirements for the installation and long-term maintenance of the system. Include hydrologic and hydraulic modeling (if needed) including duration and frequency of flooding, daily traffic counts, and length of detour (minutes).

### Related Goal(s)

- 2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., LCRA Hydromet, City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.
- 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost **\$15,000** Potential funding source(s) **-**



# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title **N Edison Low Water Crossing** ID# **101000053**  
Sponsor (name of entity) **Fredericksburg (Municipality)** Commitment **Yes**  
Technical committee recommend **TBD** RFPG recommend **TBD**

REGION 10

**Study Type** **Project Planning**

### Problem Area

City **Fredericksburg** County **Gillespie**  
Watershed Name **Barons Creek**  
Tributary(ies) **Town Creek**  
HUC# **12090206** Stream miles (est.) **TBD**  
Drainage area: square miles, est. **0.00** or acreage, est. **0**  
Social vulnerability index **0.1**  
Other **Roadway/Crossing Improvements and Install Flood Early Warning System**



### Flood Risk Description

The existing crossing is undersized and overtops. The existing crossing is a low water crossing. The proposed improvements include redesigning the intersection and installing FEWS. The existing road is a 2-lane road with an average daily traffic count of 265.

Population at risk **-TBD** Structures at risk **-TBD** Critical facilities at risk **-TBD**  
Farm/Ranch land impacted (acres) **-TBD** Roadway(s) impacted (miles) **0.00**

### Scope of Study

Conduct a study to evaluate upsizing the existing low water crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

- 2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., LCRA Hydromet, City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.
- 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost **\$15,000** Potential funding source(s) **-**

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title Schubert Low Water Crossing ID# 101000054  
Sponsor (name of entity) Fredericksburg (Municipality) Commitment Yes  
Technical committee recommend TBD RFPG recommend TBD

REGION 10

Study Type Other

### Problem Area

City Fredericksburg County Gillespie  
Watershed Name Barons Creek  
Tributary(ies) Unnamed Tributary  
HUC# 12090206 Stream miles (est.) TBD  
Drainage area: square miles, est. 2.43 or acreage, est. 1,556  
Social vulnerability index 0.1  
Other Roadway/Crossing Improvements & Channel Improvements



### Flood Risk Description

The existing crossing is undersized and overtops. The existing crossing consists of a low water crossing. The proposed improvements include lowering the channel and adding drop structures and box culverts. The existing road is a 2-lane road with an average daily traffic count of 269.

Population at risk 59 Structures at risk 44 Critical facilities at risk 0  
Farm/Ranch land impacted (acres) 112 Roadway(s) impacted (miles) 1.35

### Scope of Study

Conduct a study to evaluate upsizing the existing low water crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost \$15,000 Potential funding source(s) -

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment   
Technical committee recommend  RFPG recommend

REGION 10

Study Type

### Problem Area

City  County   
Watershed Name   
Tributary(ies)   
HUC#  Stream miles (est.)   
Drainage area: square miles, est  or acreage, est.   
Social vulnerability index   
Other



### Flood Risk Description

Town Creek is eroding on the downstream side of Orange Street. Localized scour is occurring at the outfall and along this steeper section of the channel threatening existing utilities.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

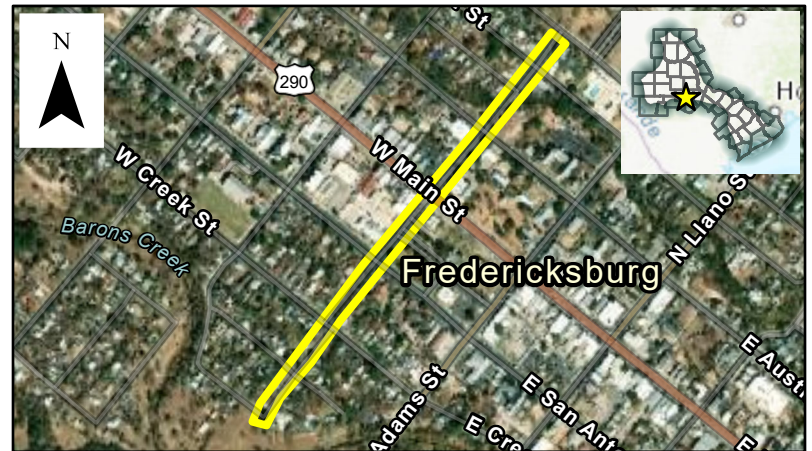
Title  ID#   
Sponsor (name of entity)  Commitment   
Technical committee recommend  RFPG recommend

REGION 10

Study Type

### Problem Area

City  County   
Watershed Name   
Tributary(ies)   
HUC#  Stream miles (est.)   
Drainage area: square miles, est.  or acreage, est.   
Social vulnerability index   
Other



### Flood Risk Description

The storm sewer system needs to be created to capture flow with curb/drop inlets to mitigate flows. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

### Estimated Study Cost

Cost  Potential funding source(s)



# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

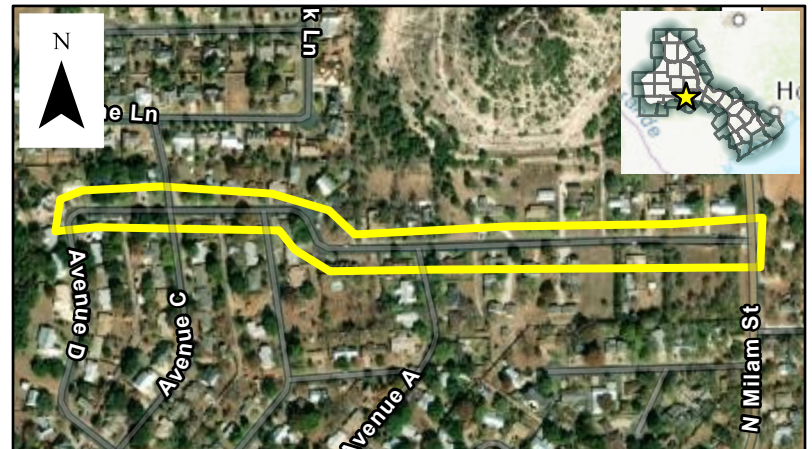
Title  ID#   
Sponsor (name of entity)  Commitment   
Technical committee recommend  RFPG recommend

REGION 10

Study Type

### Problem Area

City  County   
Watershed Name   
Tributary(ies)   
HUC#  Stream miles (est.)   
Drainage area: square miles, est.  or acreage, est.   
Social vulnerability index   
Other



### Flood Risk Description

Drainage channel is undersized and the area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

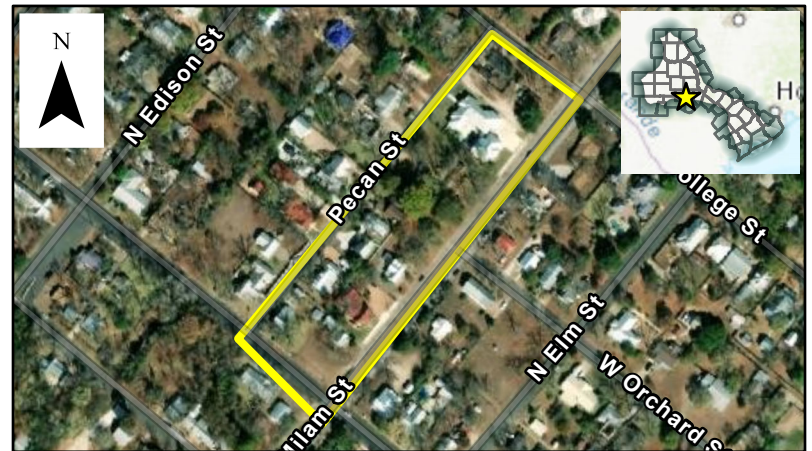
Title **N Milam at West Travis** ID# **101000058**  
Sponsor (name of entity) **Fredericksburg (Municipality)** Commitment **Yes**  
Technical committee recommend **TBD** RFPG recommend **TBD**

**REGION 10**

**Study Type** **Other**

### Problem Area

City **Fredericksburg** County **Gillespie**  
Watershed Name **Barons Creek**  
Tributary(ies) **Town Creek**  
HUC# **12090206** Stream miles (est.) **TBD**  
Drainage area: square miles, est **0.01** or acreage, est. **5**  
Social vulnerability index **0.1**  
Other **Drainage System Improvements**



### Flood Risk Description

The storm sewer system and curb inlets need to be added and upgraded. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion.

Population at risk **-TBD** Structures at risk **-TBD** Critical facilities at risk **-TBD**  
Farm/Ranch land impacted (acres) **-TBD** Roadway(s) impacted (miles) **-TBD**

### Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

### Estimated Study Cost

Cost **\$250,000** Potential funding source(s) **-**

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment   
Technical committee recommend  RFPG recommend

REGION 10

Study Type

### Problem Area

City  County   
Watershed Name   
Tributary(ies)   
HUC#  Stream miles (est.)   
Drainage area: square miles, est.  or acreage, est.   
Social vulnerability index   
Other



### Flood Risk Description

The area of concern lacks a storm drain system and stormwater is conveyed via streets. The area has experienced excessive flow depth and velocity, and channel erosion. The city has identified local drainage improvements including adding curbs, constructing a new channel, increasing the capacity of an existing pond, and replacing the pond outlet structure.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment   
Technical committee recommend  RFPG recommend

REGION 10

Study Type

### Problem Area

City  County   
Watershed Name   
Tributary(ies)   
HUC#  Stream miles (est.)   
Drainage area: square miles, est.  or acreage, est.   
Social vulnerability index   
Other



### Flood Risk Description

The existing crossing is undersized and overtops. The proposed improvements include improving the channel, raising the road, and adding multi-box (6) culvert. The existing road is a 2-lane road with an average daily traffic count of 265.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Conduct a study to evaluate the area. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)



# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment   
Technical committee recommend  RFPG recommend

REGION 10

Study Type

### Problem Area

City  County   
Watershed Name   
Tributary(ies)   
HUC#  Stream miles (est.)   
Drainage area: square miles, est.  or acreage, est.   
Social vulnerability index   
Other



### Flood Risk Description

A private detention pond on the north side of Pyka Road combines with local drainage to overtop Pyka Road. Roadway/crossing improvements are not feasible.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Evaluate the type of flood early warnings system (flashers, barricades, signage) and communication systems requirements for the installation and long-term maintenance of the system. Include hydrologic and hydraulic modeling (if needed) including duration and frequency of flooding, daily traffic counts, and length of detour (minutes).

### Related Goal(s)

- 2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., LCRA Hydromet, City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.
- 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment   
Technical committee recommend  RFPG recommend

REGION 10

Study Type

### Problem Area

City  County   
Watershed Name   
Tributary(ies)   
HUC#  Stream miles (est.)   
Drainage area: square miles, est  or acreage, est.   
Social vulnerability index   
Other



### Flood Risk Description

Dripping Springs Park Dam is a small earthen embankment dam with earthen spillway upstream of HWY 12. The city has identified the need to work with FEMA to evaluate and remediate the dam.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

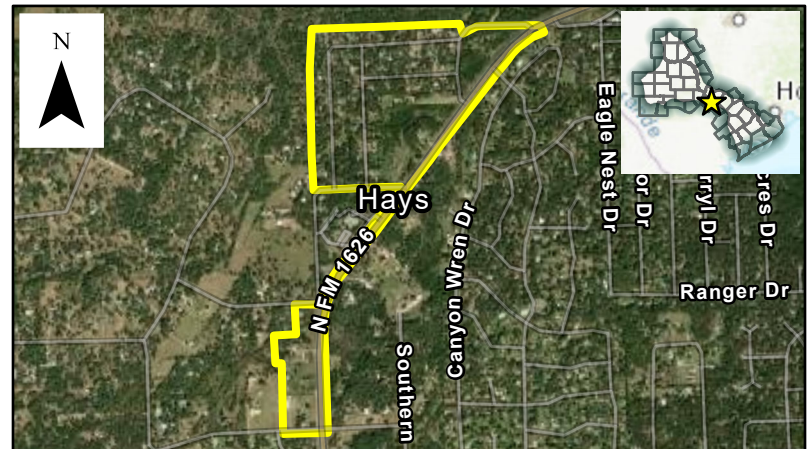
Title  ID#   
Sponsor (name of entity)  Commitment   
Technical committee recommend  RFPG recommend

REGION 10

Study Type

### Problem Area

City  County   
Watershed Name   
Tributary(ies)   
HUC#  Stream miles (est.)   
Drainage area: square miles, est.  or acreage, est.   
Social vulnerability index   
Other



### Flood Risk Description

The City has multiple local drainage problems and portions of the City are at risk of flooding. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

The flood study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) to identify priority flood risk areas, preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas and flood risk reduction measures (e.g., alternatives analysis and preliminary engineering). 5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

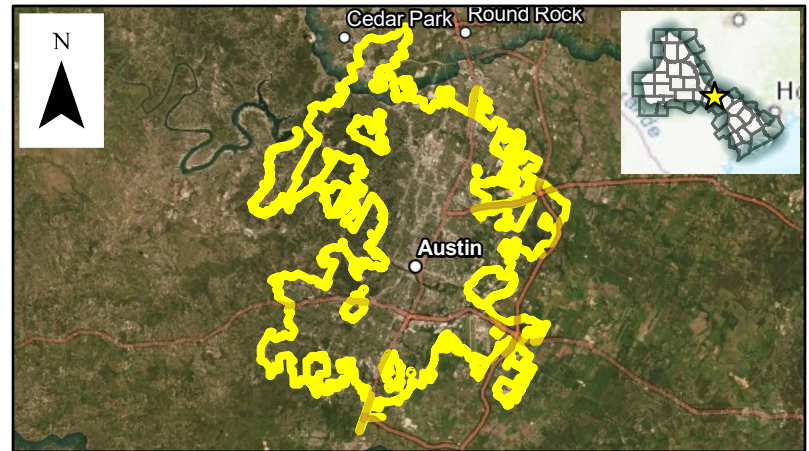
Title **Various Streets - Construct scour and erosion protection for** ID# **101000079**  
Sponsor (name of entity) **Austin (Municipality)** Commitment **Yes**  
Technical committee recommend **TBD** RFPG recommend **TBD**

REGION 10

Study Type **Other**

### Problem Area

City **Austin** County **Hays,Travis,Williamson**  
Watershed Name **Multiple Watersheds**  
Tributary(ies) **Unnamed Tributary**  
HUC# **12090205,12070205** Stream miles (est.) **TBD**  
Drainage area: square miles, est **279.33** or acreage, est. **178,771**  
Social vulnerability index **-**  
Other **Roadway/Crossing Improvements**



### Flood Risk Description

Existing bridges and culverts have high scour potential. The proposed improvements include constructing scour and erosion protection.

Population at risk **62,070** Structures at risk **5,696** Critical facilities at risk **0**  
Farm/Ranch land impacted (acres) **7,306** Roadway(s) impacted (miles) **111.76**

### Scope of Study

Conduct a study to evaluate scour potential at existing crossings. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost **\$200,000** Potential funding source(s) **-**



# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

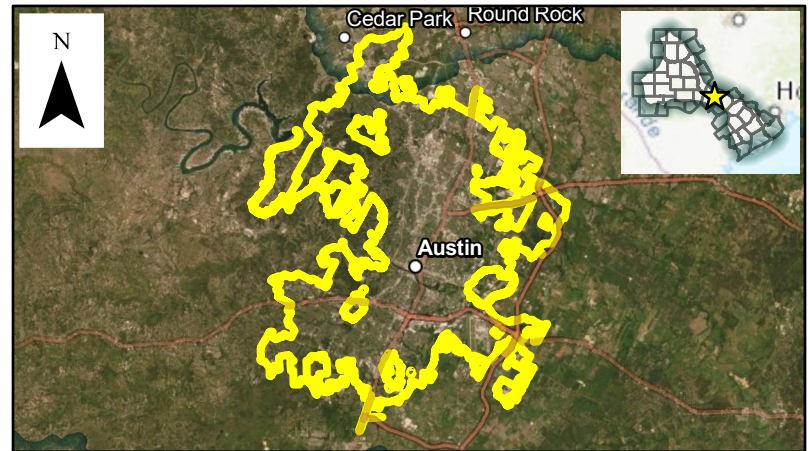
Title  ID#   
Sponsor (name of entity)  Commitment   
Technical committee recommend  RFPG recommend

REGION 10

**Study Type**

### Problem Area

City  County   
Watershed Name   
Tributary(ies)   
HUC#  Stream miles (est.)   
Drainage area: square miles, est.  or acreage, est.   
Social vulnerability index   
Other



### Flood Risk Description

1D and 2D models are needed for the entire City to design upgrades to the existing storm drain systems. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas and flood risk reduction measures (e.g., alternatives analysis and preliminary engineering). 5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment   
Technical committee recommend  RFPG recommend

REGION 10

**Study Type**

### Problem Area

City  County   
Watershed Name   
Tributary(ies)   
HUC#  Stream miles (est.)   
Drainage area: square miles, est.  or acreage, est.   
Social vulnerability index   
Other



### Flood Risk Description

The existing drainage system through town is undersized and the area has experienced excessive flow depth and velocity, has structures at risk, historical flood damage, and channel erosion.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment   
Technical committee recommend  RFPG recommend

REGION 10

Study Type

### Problem Area

City  County   
Watershed Name   
Tributary(ies)   
HUC#  Stream miles (est.)   
Drainage area: square miles, est.  or acreage, est.   
Social vulnerability index   
Other



### Flood Risk Description

The existing crossing is undersized and overtops. The proposed improvements include the addition of a headwall. The existing road is a 2-lane road with an average daily traffic count of 36.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Conduct a study to evaluate upsizing the existing low water crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca **REGIONAL FLOOD PLANNING GROUP**

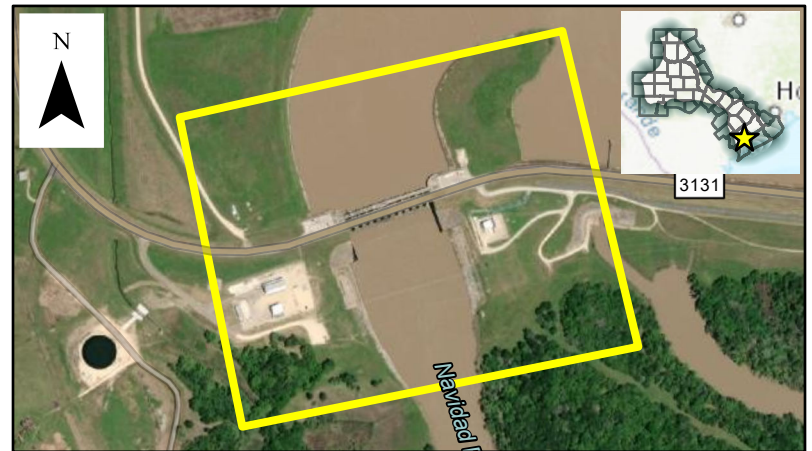
Title **Palmetto Bend Spillway** ID# **101000129**  
Sponsor (name of entity) **Jackson (County)** Commitment **Yes**  
Technical committee recommend **TBD** RFPG recommend **TBD**

**REGION 10**

**Study Type** **Other**

### Problem Area

City **Edna** County **Jackson**  
Watershed Name **Chicolete Creek - Navidad River**  
Tributary(ies) **Navidad River**  
HUC# **12100102** Stream miles (est.) **0.00**  
Drainage area: square miles, est **0.12** or acreage, est. **79**  
Social vulnerability index **0.51**  
Other **Dam Improvements**



### Flood Risk Description

Lake Texana is a large earthen embankment dam with a multiple-gate concrete spillway that is traversed by FM 3131. The dam has limited ability to quickly deploy/install stop-logs in front of the gates in an emergency and has identified the need to develop an emergency stop log deployment system.

Population at risk **0** Structures at risk **0** Critical facilities at risk **0**  
Farm/Ranch land impacted (acres) **13** Roadway(s) impacted (miles) **0.10**

### Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) to determine how stop log installation could impact dam operations, preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

### Estimated Study Cost

Cost **\$250,000** Potential funding source(s) **-**



# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment   
Technical committee recommend  RFPG recommend

REGION 10

**Study Type**

### Problem Area

City  County   
Watershed Name   
Tributary(ies)   
HUC#  Stream miles (est.)   
Drainage area: square miles, est  or acreage, est.   
Social vulnerability index   
Other



### Flood Risk Description

The City has multiple local drainage problems and portions of the City are at risk of flooding. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

The Citywide study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) to identify priority flood risk areas, preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas and flood risk reduction measures (e.g., alternatives analysis and preliminary engineering). 5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment   
Technical committee recommend  RFPG recommend

REGION 10

Study Type

### Problem Area

City  County   
Watershed Name   
Tributary(ies)   
HUC#  Stream miles (est.)   
Drainage area: square miles, est.  or acreage, est.   
Social vulnerability index   
Other



### Flood Risk Description

The existing crossing is undersized and overtops. The proposed improvements include upsizing existing culverts in flood prone areas.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Conduct a study to evaluate upsizing the existing low water crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title Upgrade/Raise various bridges above current Base Flood ID# 101000094  
Sponsor (name of entity) Victoria (County) Commitment Yes  
Technical committee recommend TBD RFPG recommend TBD

REGION 10

**Study Type** Project Planning

### Problem Area

City Victoria County Jackson,De  
Watershed Name Multiple Watersheds  
Tributary(ies) Unnamed Tributary  
HUC# 12100204,12100402 Stream miles (est.) TBD  
Drainage area: square miles, est 885.81 or acreage, est. 566,920  
Social vulnerability index -  
Other Roadway/Crossing Improvements



### Flood Risk Description

Existing bridges are below current BFE levels. The proposed improvements include raising existing bridges above BFE.

Population at risk 3,238 Structures at risk 776 Critical facilities at risk 0  
Farm/Ranch land impacted (acres) 37,406 Roadway(s) impacted (miles) 51.50

### Scope of Study

Conduct a study to evaluate raising the existing bridge. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost \$250,000 Potential funding source(s) -

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

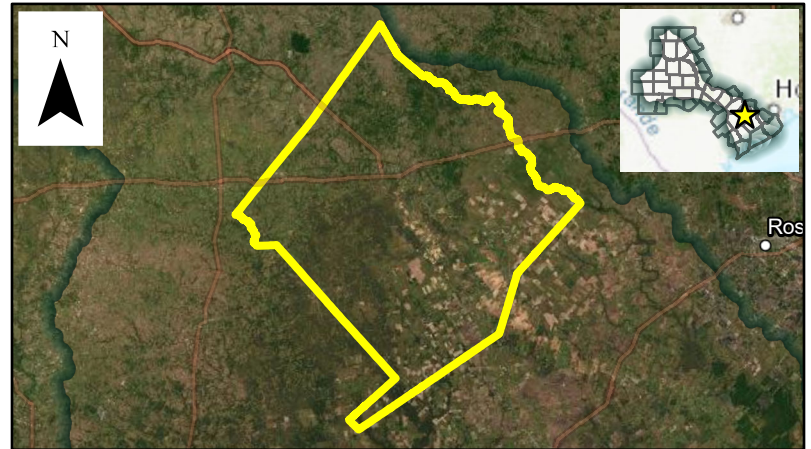
Title **Sandy Oaks Subdivision Flood Event Study** ID# **101000118**  
Sponsor (name of entity) **Colorado (County)** Commitment **Yes**  
Technical committee recommend **TBD** RFPG recommend **TBD**

**REGION 10**

**Study Type** **Other**

### Problem Area

City **Columbus** County **Jackson,Lavaca,Wharton,Col**  
Watershed Name **Multiple Watersheds**  
Tributary(ies) **Unnamed Tributary**  
HUC# **12090302,12090401** Stream miles (est.) **TBD**  
Drainage area: square miles, est **970.58** or acreage, est. **621,174**  
Social vulnerability index **-**  
Other **Watershed Study**



### Flood Risk Description

The subdivision has multiple local drainage problems and portions of the subdivision are at risk of flooding. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion.

Population at risk **4,259** Structures at risk **2,103** Critical facilities at risk **0**  
Farm/Ranch land impacted (acres) **105,662** Roadway(s) impacted (miles) **125.76**

### Scope of Study

The flood study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) to identify priority flood risk areas, preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas and flood risk reduction measures (e.g., alternatives analysis and preliminary engineering). 5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

### Estimated Study Cost

Cost **\$100,000** Potential funding source(s) **-**



# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

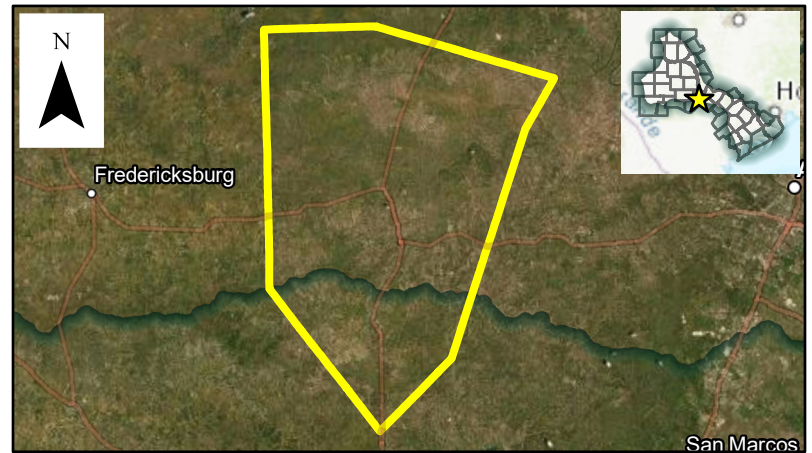
Title **Various Streets - Raise road and increase dimensions of** ID# **101000106**  
Sponsor (name of entity) **Blanco (County)** Commitment **Yes**  
Technical committee recommend **TBD** RFPG recommend **TBD**

REGION 10

**Study Type** **Project Planning**

### Problem Area

City **Blanco** County **Kendall,Hays,Gillespie,Blanc**  
Watershed Name **Multiple Watersheds**  
Tributary(ies) **Unnamed Tributary**  
HUC# **12090201,12090205** Stream miles (est.) **TBD**  
Drainage area: square miles, est **710.98** or acreage, est. **455,029**  
Social vulnerability index **-**  
Other **Roadway/Crossing Improvements**



### Flood Risk Description

The existing crossings are undersized and overtop. The existing crossings are multiple low water crossings. The proposed improvements include upgrading and raising low water crossings.

Population at risk **665** Structures at risk **294** Critical facilities at risk **0**  
Farm/Ranch land impacted (acres) **25,476** Roadway(s) impacted (miles) **15.31**

### Scope of Study

Conduct a study to evaluate upsizing the existing low water crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost **\$100,000** Potential funding source(s) **-**

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

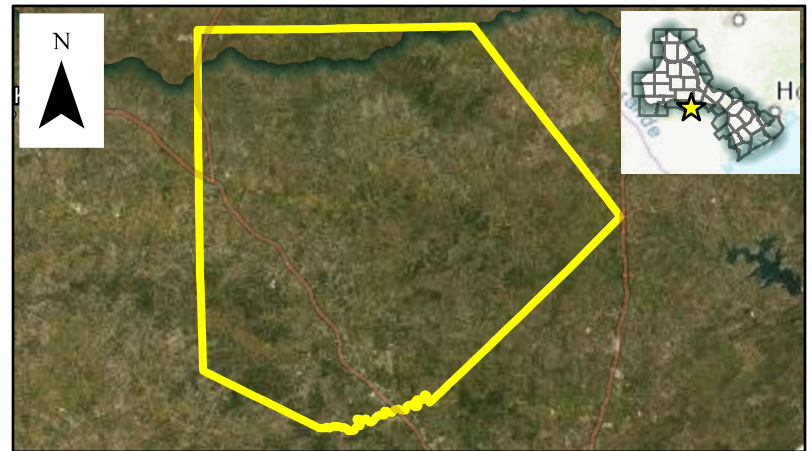
Title  ID#   
Sponsor (name of entity)  Commitment   
Technical committee recommend  RFPG recommend

REGION 10

Study Type

### Problem Area

City  County   
Watershed Name   
Tributary(ies)   
HUC#  Stream miles (est.)   
Drainage area: square miles, est  or acreage, est.   
Social vulnerability index   
Other



### Flood Risk Description

The county has identified multiple (unknown number) roadway/crossings that overtop and where structural improvements are not feasible.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Evaluate the type of flood early warnings system (flashers, barricades, signage) and communication systems requirements for the installation and long-term maintenance of the system. Include hydrologic and hydraulic modeling (if needed) including depth, duration and frequency of flooding, daily traffic counts, and length of detour (minutes),

### Related Goal(s)

- 2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., LCRA Hydromet, City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.
- 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

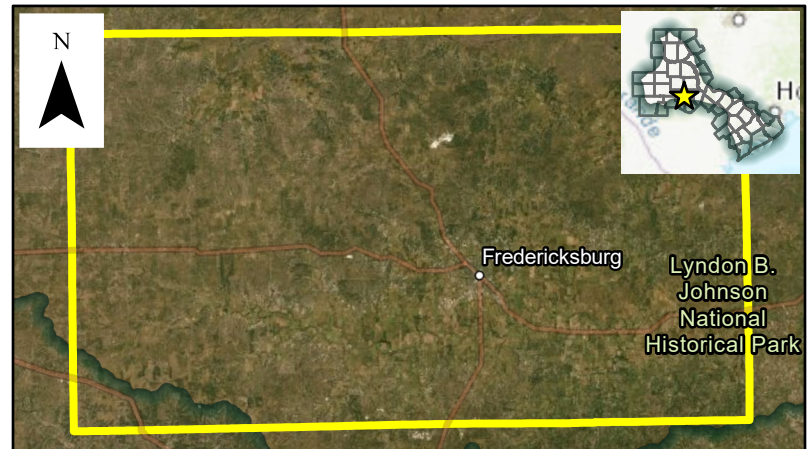
Title  ID#   
Sponsor (name of entity)  Commitment   
Technical committee recommend  RFPG recommend

REGION 10

**Study Type**

### Problem Area

City  County   
Watershed Name   
Tributary(ies)   
HUC#  Stream miles (est.)   
Drainage area: square miles, est  or acreage, est.   
Social vulnerability index   
Other



### Flood Risk Description

The existing floodplain maps are outdated and do not represent the structures at risk, the areas that have experienced flood damages and channel erosion.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

The flood study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) to identify priority flood risk areas.

### Related Goal(s)

3.1 Increase the number of entities that have updated watershed models and floodplain maps to reflect current conditions, including as applicable Atlas 14 (Volume 11) revised rainfall data. 3.3 Increase the number of entities that have digital flood insurance rate maps (DFIRMs) that reflect current conditions.

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

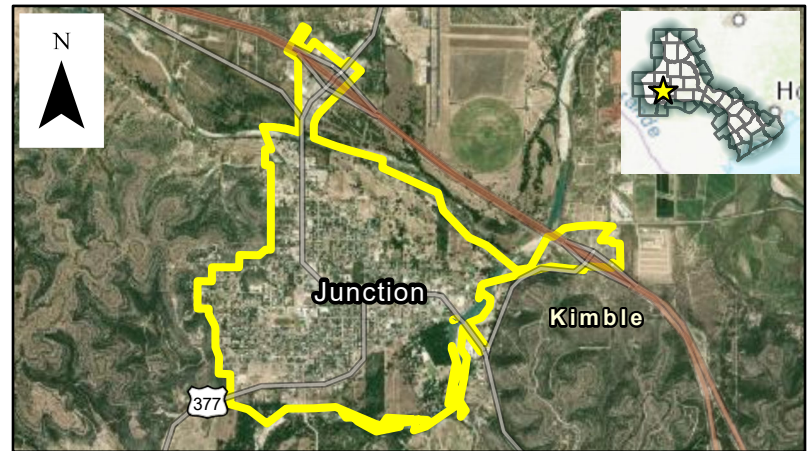
Title **Llano River Erosion** ID# **101000069**  
Sponsor (name of entity) **Junction (Municipality)** Commitment **Yes**  
Technical committee recommend **TBD** RFPG recommend **TBD**

REGION 10

Study Type **Project Planning**

### Problem Area

City **Junction** County **Kimble**  
Watershed Name **Elm Slough - North Llano River, Joy Creek - South Llano**  
Tributary(ies) **Llano River**  
HUC# **12090202,12090204** Stream miles (est.) **1.60**  
Drainage area: square miles, est **2.39** or acreage, est. **1,527**  
Social vulnerability index **0.33**  
Other **Channel Improvements/erosion protection**



### Flood Risk Description

The city has identified numerous erosion locations along the Llano River impacting Lake Junction and will undertake a study to develop and implement projects to prevent erosion.

Population at risk **252** Structures at risk **130** Critical facilities at risk **0**  
Farm/Ranch land impacted (acres) **427** Roadway(s) impacted (miles) **6.63**

### Scope of Study

Study will include hydrologic and hydraulic modeling, preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

### Estimated Study Cost

Cost **\$200,000** Potential funding source(s) **-**



# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title **South Polk Street Study** ID# **101000183**  
Sponsor (name of entity) **Giddings (Municipality)** Commitment **Yes**  
Technical committee recommend **TBD** RFPG recommend **TBD**

REGION 10

**Study Type** Watershed Planning

### Problem Area

City **Giddings** County **Lee**  
Watershed Name **Upper Rabbs Creek**  
Tributary(ies) **Unnamed Tributary**  
HUC# **12090301** Stream miles (est.) **TBD**  
Drainage area: square miles, est **0.08** or acreage, est. **49**  
Social vulnerability index **0.42**  
Other **Watershed Study**



### Flood Risk Description

The area has multiple local drainage problems and portions of the region are at risk of flooding. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion.

Population at risk **25** Structures at risk **17** Critical facilities at risk **0**  
Farm/Ranch land impacted (acres) **-** Roadway(s) impacted (miles) **0.32**

### Scope of Study

The flood study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) to identify priority flood risk areas, preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas and flood risk reduction measures (e.g., alternatives analysis and preliminary engineering). 5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

### Estimated Study Cost

Cost **\$150,000** Potential funding source(s) **-**

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

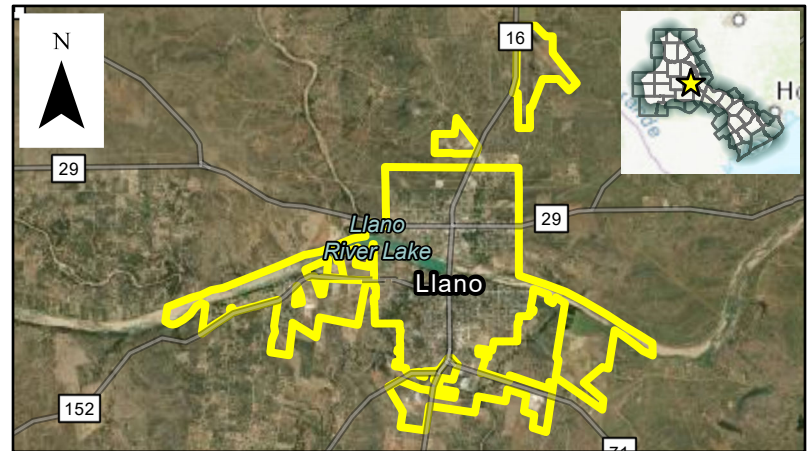
Title **Llano River Channel Maintenance** ID# **101000070**  
Sponsor (name of entity) **Llano (Municipality)** Commitment **Yes**  
Technical committee recommend **TBD** RFPG recommend **TBD**

**REGION 10**

**Study Type** **Project Planning**

### Problem Area

City **Llano** County **Llano**  
Watershed Name **Johnson Creek - Llano River, Pecan Creek - Llano River,**  
Tributary(ies) **Llano River**  
HUC# **12090204** Stream miles (est.) **TBD**  
Drainage area: square miles, est **5.76** or acreage, est. **3,685**  
Social vulnerability index **0.19**  
Other **Channel Improvements**



### Flood Risk Description

The city has identified numerous maintenance issues in the Johnson Creek, Pecan Creek, Oatman Creek, and Wrights Creek watersheds including storm drain cleaning and channel maintenance/erosion that contribute to local flooding. The city will develop a program to improve maintenance.

Population at risk **549** Structures at risk **181** Critical facilities at risk **0**  
Farm/Ranch land impacted (acres) **464** Roadway(s) impacted (miles) **4.11**

### Scope of Study

Study will include hydrologic and hydraulic modeling of preliminary design of improvements (if needed), risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

### Estimated Study Cost

Cost **\$100,000** Potential funding source(s) **-**

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

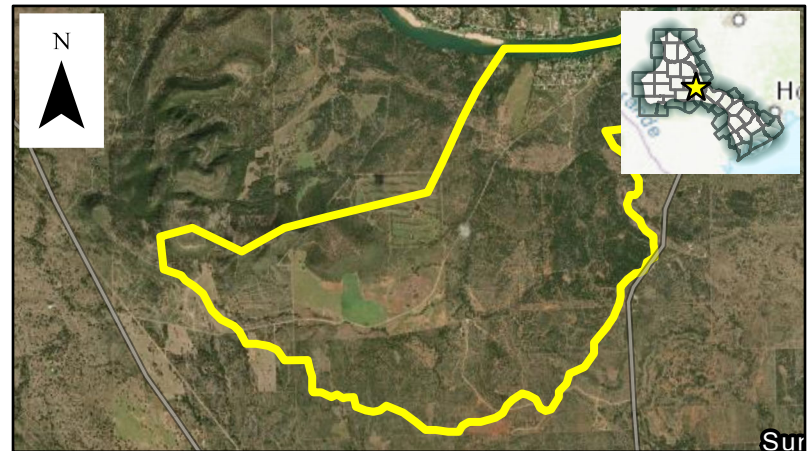
Title  ID#   
Sponsor (name of entity)  Commitment   
Technical committee recommend  RFPG recommend

REGION 10

**Study Type**

### Problem Area

City  County   
Watershed Name   
Tributary(ies)   
HUC#  Stream miles (est.)   
Drainage area: square miles, est.  or acreage, est.   
Social vulnerability index   
Other



### Flood Risk Description

The subdivision has multiple local drainage problems and portions of the subdivision are at risk of flooding. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

The flood study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) to identify priority flood risk areas, preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas and flood risk reduction measures (e.g., alternatives analysis and preliminary engineering). 5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title  ID#   
Sponsor (name of entity)  Commitment   
Technical committee recommend  RFPG recommend

REGION 10

**Study Type**

### Problem Area

City  County   
Watershed Name   
Tributary(ies)   
HUC#  Stream miles (est.)   
Drainage area: square miles, est.  or acreage, est.   
Social vulnerability index   
Other



### Flood Risk Description

Various drainage channels within the city (tributaries to Lake LBJ) are undersized resulting in local flooding (flow depth and velocity) and channel erosion.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

### Estimated Study Cost

Cost  Potential funding source(s)



# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title **Airport Drainage Improvements** ID# **101000075**  
Sponsor (name of entity) **Palacios (Municipality)** Commitment **Yes**  
Technical committee recommend **TBD** RFPG recommend **TBD**

**REGION 10**

**Study Type** **Other**

### Problem Area

City **Palacios** County **Matagorda**  
Watershed Name **Tres Palacios River - Frontal Tres Palacios Bay**  
Tributary(ies) **Reed Creek, Horn Creek**  
HUC# **12100401** Stream miles (est.) **TBD**  
Drainage area: square miles, est **0.70** or acreage, est. **450**  
Social vulnerability index **0.84**  
Other **Watershed Study**



### Flood Risk Description

The airport has local drainage problems and portions of the area are at risk of flooding. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion.

Population at risk **2** Structures at risk **3** Critical facilities at risk **0**  
Farm/Ranch land impacted (acres) **4** Roadway(s) impacted (miles) **-**

### Scope of Study

The flood study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) to identify priority flood risk areas, preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas and flood risk reduction measures (e.g., alternatives analysis and preliminary engineering). 5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

### Estimated Study Cost

Cost **\$100,000** Potential funding source(s) **-**

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

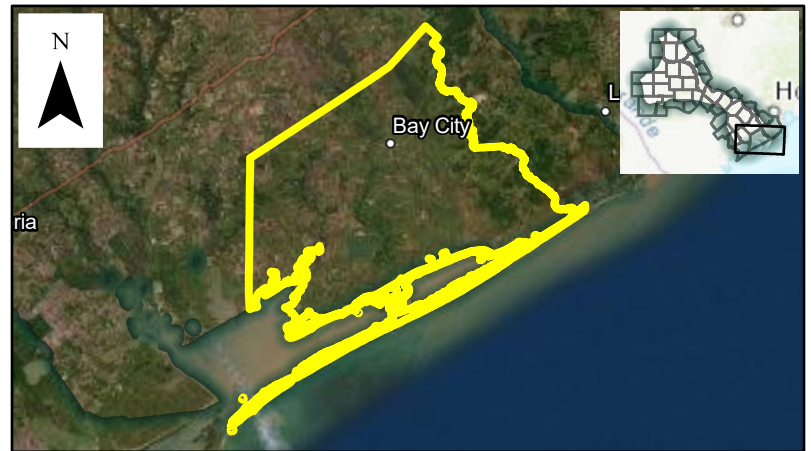
Title  ID#   
Sponsor (name of entity)  Commitment   
Technical committee recommend  RFPG recommend

REGION 10

**Study Type**

### Problem Area

City  County   
Watershed Name   
Tributary(ies)   
HUC#  Stream miles (est.)   
Drainage area: square miles, est  or acreage, est.   
Social vulnerability index   
Other



### Flood Risk Description

The existing FIS and FIRMS are outdated and do not represent the structures at risk, the areas that have experienced flood damages and channel erosion.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

The flood study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) to identify priority flood risk areas.

### Related Goal(s)

3.1 Increase the number of entities that have updated watershed models and floodplain maps to reflect current conditions, including as applicable Atlas 14 (Volume 11) revised rainfall data. 3.3 Increase the number of entities that have digital flood insurance rate maps (DFIRMs) that reflect current conditions.

### Estimated Study Cost

Cost  Potential funding source(s)

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

Title **Tres Palacios River** ID# **101000076**  
Sponsor (name of entity) **Matagorda (County)** Commitment **Yes**  
Technical committee recommend **TBD** RFPG recommend **TBD**

REGION 10

Study Type **Other**

### Problem Area

City **Matagorda** County **Matagorda, Jackson, Wharton**  
Watershed Name **Multiple Watersheds**  
Tributary(ies) **Tres Palacios River**  
HUC# **12090302, 12100401** Stream miles (est.) **TBD**  
Drainage area: square miles, est **365.91** or acreage, est. **234,181**  
Social vulnerability index **-**  
Other **Install Flood Early Warning System**



### Flood Risk Description

The county has identified multiple (unknown number) roadway/crossings on the Tres Palacios River that overtop and where structural improvements are not feasible.

Population at risk **4,554** Structures at risk **1,805** Critical facilities at risk **0**  
Farm/Ranch land impacted (acres) **28,386** Roadway(s) impacted (miles) **75.83**

### Scope of Study

Evaluate the type of flood early warnings system (flashers, barricades, signage) and communication systems requirements for the installation and long-term maintenance of the system. Include hydrologic and hydraulic modeling (if needed) including depth, duration and frequency of flooding, daily traffic counts, and length of detour (minutes),

### Related Goal(s)

- 2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., LCRA Hydromet, City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.
- 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost **\$50,000** Potential funding source(s) **-**

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

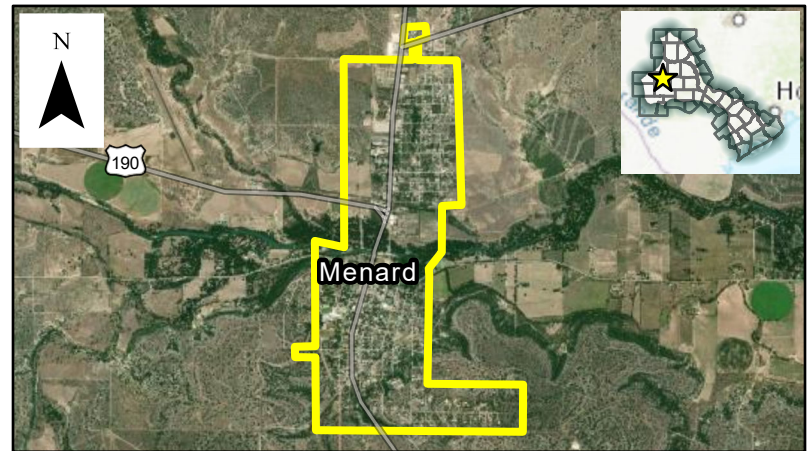
Title  ID#   
Sponsor (name of entity)  Commitment   
Technical committee recommend  RFPG recommend

REGION 10

Study Type

### Problem Area

City  County   
Watershed Name   
Tributary(ies)   
HUC#  Stream miles (est.)   
Drainage area: square miles, est.  or acreage, est.   
Social vulnerability index   
Other



### Flood Risk Description

The city has identified multiple (unknown number) low water crossings that overtop and where roadway/crossing improvements are not feasible.

Population at risk  Structures at risk  Critical facilities at risk   
Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)

### Scope of Study

Evaluate the type of flood early warnings system (flashers, barricades, signage) and communication systems requirements for the installation and long-term maintenance of the system. Include hydrologic and hydraulic modeling (if needed) including depth, duration and frequency of flooding, daily traffic counts, and length of detour (minutes),

### Related Goal(s)

- 2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., LCRA Hydromet, City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.
- 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### Estimated Study Cost

Cost  Potential funding source(s)