FME Batch 3 **25-May-22**

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Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Wastewater Treatment Plant Floodproofing | ID#: 101000127

Sponsor (name of entity): Edna (Municipality) | Commitment: [X] Yes [ ] No

Technical committee recommend: [ ] Yes [ ] No | RFPG recommend: [ ] Yes [ ] No

Study Type

[ ] Emergency preparedness [ ] Floodplain modeling, mapping and risk assessment [X] Feasibility study [ ] Preliminary project engineering

[ ] Other

Problem Area

City: Edna | County: Jackson

Watershed name(s): Post Oak Branch - Dry Creek

Tributary(ies): Dry Creek, Post Oak Branch

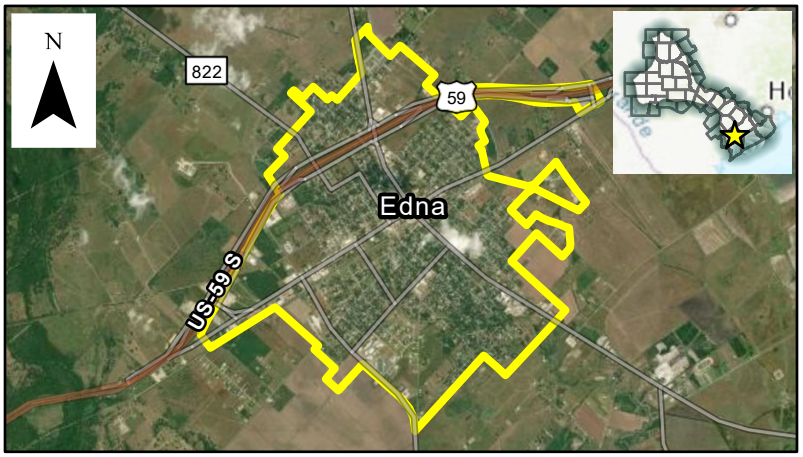
HUC#: 12100101,12100102 | Stream miles (est.): TBD

Drainage area: square miles, est: 4.06 | or acreage, est.: 2,601

Social vulnerability index: 0.51

(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other: Local Plans & Regulations



Flood Risk Description

The wastewater treatment plant experiences flooding during low frequency rain events. The Sponsor has identified the need to floodproof the existing wastewater treatment plant. Study results will provide a more detailed assessment of existing flood and potential flood risk. Study will determine if flood proofing will provide mitigation required or if structural mitigation will be required.

Population at risk: 0 | Structures at risk: 0 | Critical facilities at risk: 1

Farm/Ranch land impacted (acres): 0 | Roadway(s) impacted (miles): 0.00

Scope of Study

If structural flood mitigation, other than flood proofing, is required then the 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.

Estimated Study Cost

Cost: $25,000 | Potential funding source(s): TBD

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: City Hall Hardening and Safe Room | ID#: 101000128

Sponsor (name of entity): Ganado (Municipality) | Commitment: [X] Yes [ ] No

Technical committee recommend: [ ] Yes [ ] No | RFPG recommend: [ ] Yes [ ] No

Study Type

[ ] Emergency preparedness [ ] Floodplain modeling, mapping and risk assessment [ ] Feasibility study [X] Preliminary project engineering

[ ] Other

Problem Area

City: Ganado | County: Jackson

Watershed name(s): Devers Creek - Mustang Creek

Tributary(ies): Unnamed Tributary

HUC#: 12100102 | Stream miles (est.): TBD

Drainage area: square miles, est: 0.00 | or acreage, est.: 0

Social vulnerability index: 0.51
(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other: Local Plans & Regulations

Flood Risk Description

The current facility is located adjacent to the 100-year floodplain. The study will investigate the cost level of effort for hardening and the addition of a safe room.

Population at risk: 0 | Structures at risk: 0 | Critical facilities at risk: 1

Farm/Ranch land impacted (acres): 0 | Roadway(s) impacted (miles): 0.00

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)

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger. 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.

Estimated Study Cost

Cost: $50,000 | Potential funding source(s): TBD

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Jackson County Hospital District | ID#: 101000065

Sponsor (name of entity): Jackson (County) | Commitment: [X] Yes [ ] No

Technical committee recommend: [ ] Yes [ ] No | RFPG recommend: [ ] Yes [ ] No

Study Type

[ ] Emergency preparedness [ ] Floodplain modeling, mapping and risk assessment [ ] Feasibility study [X] Preliminary project engineering

[ ] Other

Problem Area

City: N/A | County: Jackson

Watershed name(s): Post Oak Branch - Dry Creek

Tributary(ies): Dry Creek

HUC#: 12100101 | Stream miles (est.): TBD

Drainage area: square miles, est: 0.09 | or acreage, est.: 57

Social vulnerability index: 0.51

(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other: Jackson County Hospital Flood Plan

Flood Risk Description

The southern portion of the study area is located in the 100-year floodplain of Dry Creek and multiple structures are at risk. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

Population at risk: 5 | Structures at risk: 3 | Critical facilities at risk: 0

Farm/Ranch land impacted (acres): TBD | Roadway(s) impacted (miles): 0.12

Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), and may include 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: $100,000 | Potential funding source(s): TBD

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Lake Junction Dredging | ID#: 101000068

Sponsor (name of entity): Junction (Municipality) | Commitment: [X] Yes [ ] No

Technical committee recommend: [ ] Yes [ ] No | RFPG recommend: [ ] Yes [ ] No

Study Type

[ ] Emergency preparedness [ ] Floodplain modeling, mapping and risk assessment [ ] Feasibility study [X] Preliminary project engineering

[ ] Other

Problem Area

City: Junction | County: Kimble

Watershed name(s): Joy Creek - South Llano River

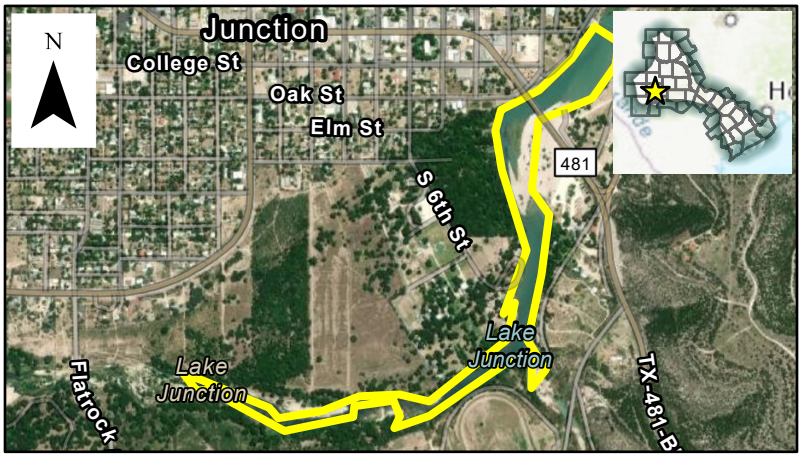
Tributary(ies): South Llano River

HUC#: 12090203 | Stream miles (est.): TBD

Drainage area: square miles, est: 0.07 | or acreage, est.: 42

Social vulnerability index: 0.33
(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other: Local Plans & Regulations



Flood Risk Description

The City has identified the need to dredge Lake Jackson to improve hydraulics and increase storage capacity. The existing flood risk is not well defined, and the risk indicators are based on the study area. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

Population at risk: 0 | Structures at risk: 0 | Critical facilities at risk: 0

Farm/Ranch land impacted (acres): 14 | Roadway(s) impacted (miles): 0.06

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: $50,000 | Potential funding source(s): TBD

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Prepare Evacuation Plan | ID#: 101000072

Sponsor (name of entity): Llano (County) | Commitment: [X] Yes [ ] No

Technical committee recommend: [ ] Yes [ ] No | RFPG recommend: [ ] Yes [ ] No

Study Type

[X] Emergency preparedness [ ] Floodplain modeling, mapping and risk assessment [ ] Feasibility study [ ] Preliminary project engineering

[ ] Other

Problem Area

City: N/A | County: Llano

Watershed name(s): Multiple Watersheds

Tributary(ies): Unnamed Tributary

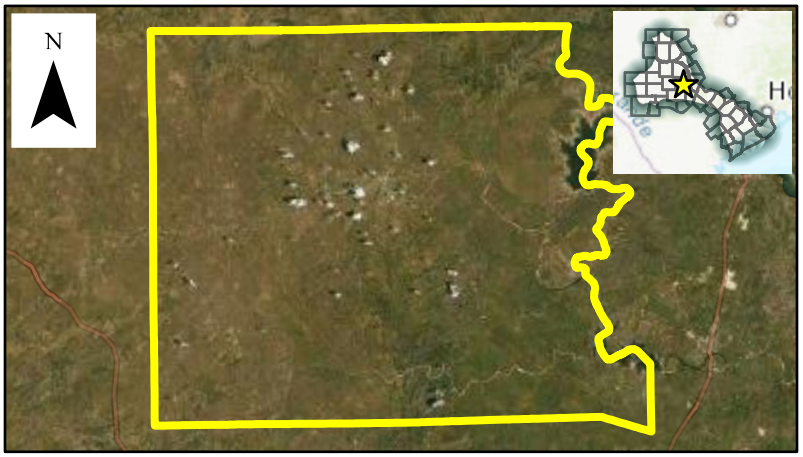
HUC#: 12090201,12090204 | Stream miles (est.): TBD

Drainage area: square miles, est: 962.44 | or acreage, est.: 615,962

Social vulnerability index: 0.19

(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other: Local Plans & Regulations



Flood Risk Description

The Sponsor's evacuation plan(s) are out of date and need to be updated to assist with emergency coordination during a flood event.

Population at risk: 3,956 | Structures at risk: 2,740 | Critical facilities at risk: 0

Farm/Ranch land impacted (acres): 44,539 | Roadway(s) impacted (miles): 53.08

Scope of Study

Coordinate with agencies and local governments as necessary to develop/update the evacuation plan.

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., City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.

Estimated Study Cost

Cost: $25,000 | Potential funding source(s): TBD

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Relocate Fire Department Building | ID#: 101000130

Sponsor (name of entity): Llano (County) | Commitment: [X] Yes [ ] No

Technical committee recommend: [ ] Yes [ ] No | RFPG recommend: [ ] Yes [ ] No

Study Type

[X] Emergency preparedness [ ] Floodplain modeling, mapping and risk assessment [ ] Feasibility study [ ] Preliminary project engineering

[ ] Other

Problem Area

City: N/A | County: Llano

Watershed name(s): Peters Creek - Lake Lyndon B Johnson

Tributary(ies): Unnamed Tributary

HUC#: 12090201 | Stream miles (est.): TBD

Drainage area: square miles, est: 0.00 | or acreage, est.: 1

Social vulnerability index: 0.19

(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other: Local Plans & Regulations

Flood Risk Description

The Kingsland Volunteer Fire Department is located within the 100-year floodplain. The study will investigate possible sites and cost for relocation and may include the need to extend floodplain models upstream to verify the new location is outside the floodplain.

Population at risk: 0 | Structures at risk: 0 | Critical facilities at risk: 1

Farm/Ranch land impacted (acres): TBD | Roadway(s) impacted (miles): 0.06

Scope of Study

The siting study will focus on finding a suitable location for the new facility. Depending on the location the study may 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: $250,000 | Potential funding source(s): TBD

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title 102 Beach Dr Low Water Crossing ID# 101000175

Sponsor (name of entity) Sunrise Beach Village (Municipality) Commitment [X] Yes [ ] No

Technical committee recommend [ ] Yes [ ] No RFPG recommend [ ] Yes [ ] No

Study Type

[ ] Emergency preparedness [ ] Floodplain modeling, mapping and risk assessment [ ] Feasibility study [X] Preliminary project engineering

[ ] Other

Problem Area

City Sunrise Beach Village County Llano

Watershed name(s) Sandy Creek - Lake Lyndon B Johnson

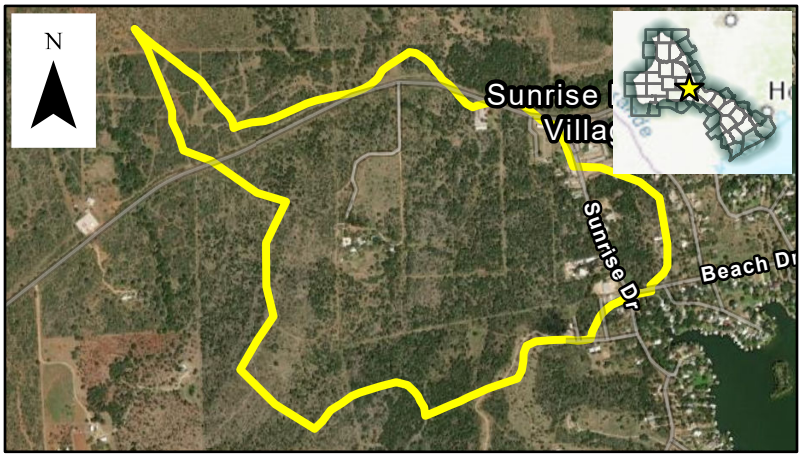
Tributary(ies) Unnamed Tributary

HUC# 12090201 Stream miles (est.) TBD

Drainage area: square miles, est 0.50 or acreage, est. 320

Social vulnerability index 0.19
(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other Roadway/Crossing Improvements & Channel Improvements



Flood Risk Description

The existing crossing is undersized and overtops. The existing crossing consists of two (2) corrugated metal pipes. The proposed improvements include upsizing the pipes. The average daily traffic count is unknown.

Population at risk 0 Structures at risk 0 Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (miles) 0.05

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) TBD

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title 124 Sunrise Drive Low Water Crossing ID# 101000176

Sponsor (name of entity) Sunrise Beach Village (Municipality) Commitment [X] Yes [ ] No

Technical committee recommend [ ] Yes [ ] No RFPG recommend [ ] Yes [ ] No

Study Type

[ ] Emergency preparedness [ ] Floodplain modeling, mapping and risk assessment [ ] Feasibility study [X] Preliminary project engineering

[ ] Other

Problem Area

City Sunrise Beach Village County Llano

Watershed name(s) Sandy Creek - Lake Lyndon B Johnson

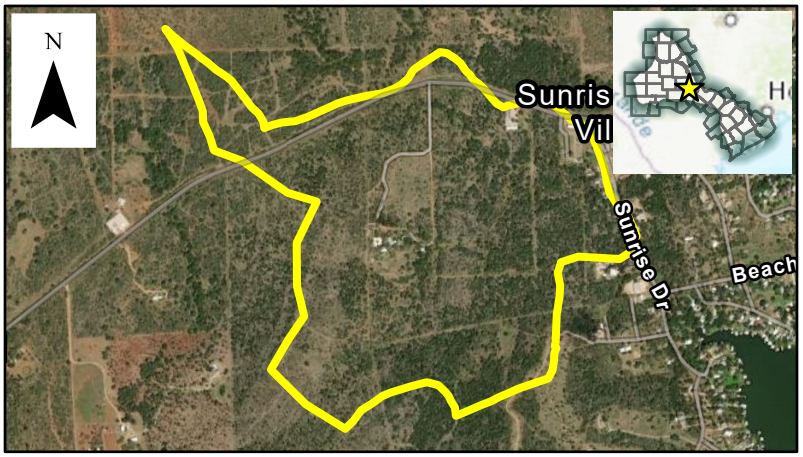
Tributary(ies) Unnamed Tributary

HUC# 12090201 Stream miles (est.) TBD

Drainage area: square miles, est 0.44 or acreage, est. 279

Social vulnerability index 0.19
(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other Roadway/Crossing Improvements & Channel Improvements



Flood Risk Description

The existing crossing is undersized and overtops. The existing crossing consists of two (2) corrugated metal pipes. The proposed improvements include upsizing the pipes. The average daily traffic count is unknown.

Population at risk 0 Structures at risk 0 Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (miles) 0.05

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) TBD

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Construct Emergency Operation Center | ID#: 101000074

Sponsor (name of entity): Palacios (Municipality) | Commitment: [X] Yes [ ] No

Technical committee recommend: [ ] Yes [ ] No | RFPG recommend: [ ] Yes [ ] No

Study Type

[ ] Emergency preparedness [ ] Floodplain modeling, mapping and risk assessment [ ] Feasibility study [X] Preliminary project engineering

[ ] Other

Problem Area

City: Palacios | County: Matagorda

Watershed name(s): Tres Palacios River - Frontal Tres Palacios Bay

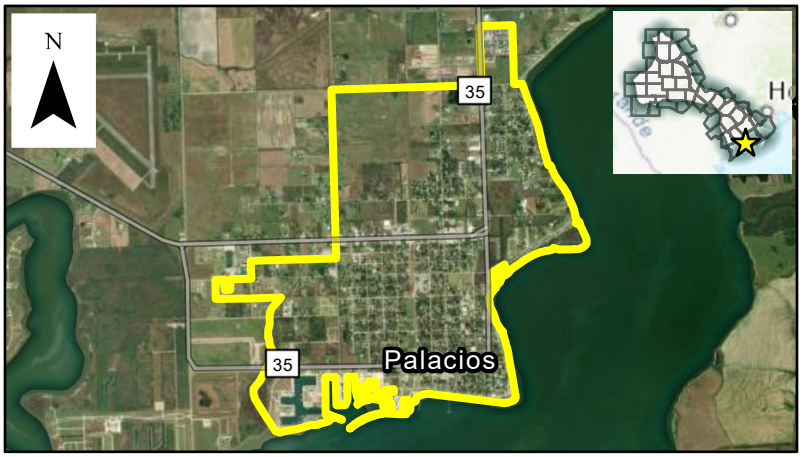
Tributary(ies): Unnamed Tributary

HUC#: 12100401 | Stream miles (est.): TBD

Drainage area: square miles, est: 3.35 | or acreage, est.: 2,145

Social vulnerability index: 0.84
(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other: Local Plans & Regulations



Flood Risk Description

The city has identified the need to construct an emergency operation center for the safety of the community. The study will investigate possible sites and cost for the location and may include the need to extend floodplain models upstream to verify the location is outside the floodplain.

Population at risk: 0 | Structures at risk: 0 | Critical facilities at risk: 1

Farm/Ranch land impacted (acres): 0 | Roadway(s) impacted (miles): 0.00

Scope of Study

The study will include hydrologic and hydraulic modeling (with Atlas 14) to identify/verify the most appropriate location for this development.

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.

Estimated Study Cost

Cost: $100,000 | Potential funding source(s): TBD

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Police Station Relocation and Safe Room | ID#: 101000131

Sponsor (name of entity): Palacios (Municipality) | Commitment: [X] Yes [ ] No

Technical committee recommend: [ ] Yes [ ] No | RFPG recommend: [ ] Yes [ ] No

Study Type

[X] Emergency preparedness [ ] Floodplain modeling, mapping and risk assessment [ ] Feasibility study [ ] Preliminary project engineering

[ ] Other

Problem Area

City: Palacios | County: Matagorda

Watershed name(s): Tres Palacios River - Frontal Tres Palacios Bay

Tributary(ies): Unnamed Tributary

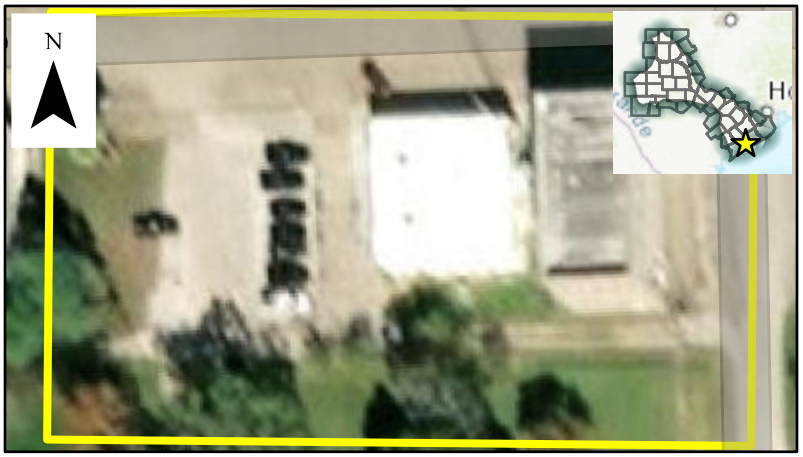
HUC#: 12100401 | Stream miles (est.): TBD

Drainage area: square miles, est: 0.00 | or acreage, est.: 1

Social vulnerability index: 0.84

(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other: Local Plans & Regulations



Flood Risk Description

The police station is located within the 100-year floodplain. The study will investigate possible sites and cost for relocation and addition of a safe room and may include the need to extend floodplain models upstream to verify the new location is outside the floodplain.

Population at risk: 0 | Structures at risk: 0 | Critical facilities at risk: 1

Farm/Ranch land impacted (acres): 0 | Roadway(s) impacted (miles): 0.00

Scope of Study

The siting study will focus on finding a suitable location for the new facility. Depending on the location the study may 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: $250,000 | Potential funding source(s): TBD

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Harris Hollow Neighborhood Flooding | ID#: 101000181

Sponsor (name of entity): Menard (Municipality) | Commitment: [X] Yes [ ] No

Technical committee recommend: [ ] Yes [ ] No | RFPG recommend: [ ] Yes [ ] No

Study Type

[ ] Emergency preparedness [ ] Floodplain modeling, mapping and risk assessment [ ] Feasibility study [X] Preliminary project engineering

[ ] Other

Problem Area

City: Menard | County: Menard

Watershed name(s): Menard Irrigation Company Canal - San Saba River

Tributary(ies): Unnamed Tributary

HUC#: 12090109 | Stream miles (est.): TBD

Drainage area: square miles, est: 0.13 | or acreage, est.: 83

Social vulnerability index: 0.36

(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other: Drainage System Improvements

Flood Risk Description

The Sponsor has indicated the existing stormwater infrastructure in the study area and numerous houses are located in the 100-year floodplain. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

Population at risk: 83 | Structures at risk: 107 | Critical facilities at risk: 0

Farm/Ranch land impacted (acres): 25 | Roadway(s) impacted (miles): 2.51

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. 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): TBD

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca
REGIONAL FLOOD PLANNING GROUP
REGION 10

Title: Community Evacuation Plan | ID#: 101000080

Sponsor (name of entity): Jonestown (Municipality) | Commitment: [X] Yes [ ] No

Technical committee recommend: [ ] Yes [ ] No | RFPG recommend: [ ] Yes [ ] No

Study Type

[X] Emergency preparedness [ ] Floodplain modeling, mapping and risk assessment [ ] Feasibility study [ ] Preliminary project engineering

[ ] Other

Problem Area

City: Jonestown | County: Travis

Watershed name(s): Hurst Creek - Lake Travis, Big Sandy Creek

Tributary(ies): Unnamed Tributary

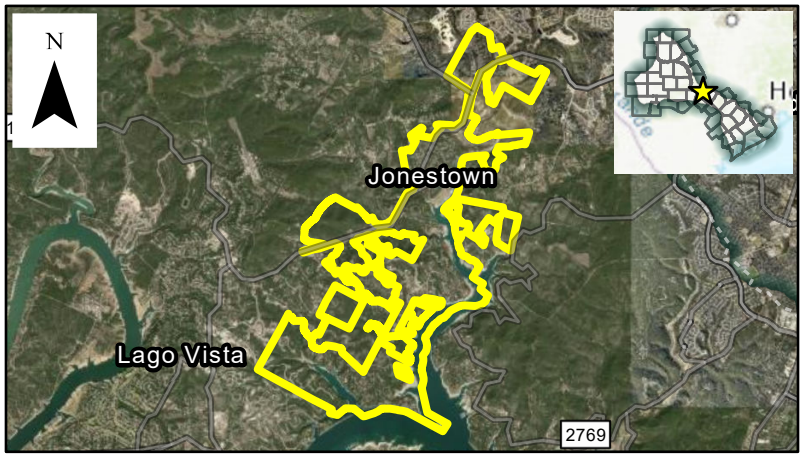
HUC#: 12090205 | Stream miles (est.): TBD

Drainage area: square miles, est: 7.55 | or acreage, est.: 4,832

Social vulnerability index: 0.15

(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other: Local Plans & Regulations



Flood Risk Description

The Sponsor's evacuation plan(s) are out of date and need to be updated to assist with emergency coordination during a flood event.

Population at risk: 235 | Structures at risk: 322 | Critical facilities at risk: 0

Farm/Ranch land impacted (acres): 423 | Roadway(s) impacted (miles): 2.48

Scope of Study

Coordinate with agencies and local governments as necessary to develop/update the evacuation plan.

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., City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.

Estimated Study Cost

Cost: $25,000 | Potential funding source(s): TBD