| 1          | FME Batch 2A         |   |           |             |                |                    |          | 25-May-22 |
|------------|----------------------|---|-----------|-------------|----------------|--------------------|----------|-----------|
|            | Action Number        | Action Name   | County    | Page Number | Tech Committee | Tech Committee Rec | RFPG Rec | RFPG Rec  |
|            |                      |   |           | 0           |                |                    |          |           |
|            | 101000001            | Drainage System Improvements                              | Bastrop   | 1           |                |                    |          |           |
|            | 101000004            | Gotier Trace Low Water Crossings                          | Bastrop   | 2           |                |                    |          |           |
|            | 101000005            | Lakeview Drive & Tuck Street                              | Bastrop   | 3           |                |                    |          |           |
|            | 10100008             | Clear Springs Lake Dam                                    | Bastrop   | 4           |                |                    |          |           |
| ÷.         | 101000023            | Gills Branch  | Bastrop   | 5           |                |                    |          |           |
| 2A         | 101000027            | FM 812 at Little Alum Creek                               | Bastrop   | 6           |                |                    |          |           |
| Batch 2A-1 | 101000028            | FM 812 at Alum Creek South                                | Bastrop   | 7           |                |                    |          |           |
| Ba         | 101000102            | Piney Creek Benching                                      | Bastrop   | 8           |                |                    |          |           |
|            | 101000103            | Design System Improvements - JC Madison Addition          | Bastrop   | 9           |                |                    |          |           |
|            | 101000104            | Citywide drainage system improvements                     | Bastrop   | 10          |                |                    |          |           |
|            | 101000125            | Alum Creek - Tributary 8, Bowie Drive                     | Bastrop   | 11          |                |                    |          |           |
|            | 101000108            | Develop New/Updated Floodplain Maps                       | Blanco    | 12          |                |                    |          |           |
|            | <del>101000182</del> | Johnson City Floodplain Mapping (Removed duplicate)       | -         | -           |                |                    |          |           |
|            | 101000113            | Burnet County Flood Early Warning System                  | Burnet    | 13          |                |                    |          |           |
|            | 101000109            | CR 332 Drainage Improvements                              | Brazoria  | 14          |                |                    |          |           |
|            | 101000110            | Various culverts along Stevenson Slough                   | Brazoria  | 15          |                |                    |          |           |
| T          | 101000136            | Highway 36  | Brazoria  | 16          |                |                    |          |           |
| Batch 2A-2 | 101000121            | Various Streets - Install Flood Early Warning Systems     | Fort Bend | 17          |                |                    |          |           |
| - H        | 101000029            | Magnolia St   | Brown     | 18          |                |                    |          |           |
| Batc       | 101000111            | Adopt Flood Insurance Rate Maps                           | Brown     | 19          |                |                    |          |           |
| "          | 101000137            | CR257 at Pecan Bayou (Tenmile Crossing)                   | Brown     | 20          |                |                    |          |           |
|            | 101000160            | Delaware Creek Flood Study                                | Brown     | 21          |                |                    |          |           |
|            | 101000032            | Mission Hills Street                                      | Burnet    | 22          |                |                    |          |           |
|            | 101000114            | Shade Grove flood study                                   | Burnet    | 23          |                |                    |          |           |
|            | 101000116            | Whitman Branch Bypass; Oak Ridge Drive Creek              | Burnet    | 24          |                |                    |          |           |
|            | <del>101000117</del> | Various Streets (Moved to FMP)                            | -         | -           |                |                    |          |           |
|            | 101000159            | Watewater Treatment Plant Flood Study                     | Burnet    | 25          |                |                    |          |           |
|            | 101000161            | VFW Flood Study   | Burnet    | 26          |                |                    |          |           |
|            | 101000171            | Citywide Floodplain Remapping                             | Burnet    | 27          |                |                    |          |           |
|            | <del>101000041</del> | 8 low water crossings within City (Moved to FMP)          | -         | -           |                |                    |          |           |
| ñ          | 101000034            | Lum Rd, Hilltop Rd, FM 2919 N                             | Fort Bend | 28          |                |                    |          |           |
| 124        | 101000035            | Drainage improvements to Crawford outlet right-of-way     | Fort Bend | 29          |                |                    |          |           |
| Batch 2A-3 | 101000036            | McFarland Rd, Lum Rd, and Braxton Rd- (Removed duplicate) | -         | -           |                |                    |          |           |
| B          | 101000037            | Gene and Church Streets                                   | Fort Bend | 30          |                |                    |          |           |
|            | 101000038            | 800 Block W San Antonio                                   | Gillespie | 31          |                |                    |          |           |
|            | 101000039            | South End of Acorn Street                                 | Gillespie | 32          |                |                    |          |           |
|            | 101000040            | S Bowie Low Water Crossing (Moved to FMP)                 | -         | -           |                |                    |          |           |
|            | 101000042            | Bowie & Peach Street                                      | Gillespie | 33          |                |                    |          |           |
|            | 101000044            | 112 W Park  | Gillespie | 34          |                |                    |          |           |

| Flood Manage   | ement Evalu                      | PY Lower Colorado-Lavaca<br>REGIONAL FLOOD |   |
|--|----------------------------------|--|---|
| Title Wastewater Treatment Pla   | ant Flood Study                  | ID# 101000159                              | PLANNING GROUP  |
| Sponsor (name of entity) Burnet (  | (Municipality)                   | Commitment X Yes                           | lo  |
| Technical committee recommend  | Yes No                           | RFPG recommend Yes No                      | REGION 10   |
| Study Type   |                                  |  |   |
| Emergency preparedness   | Floodplain modeling, r           | mapping and risk assessment                | Feasibility study X Preliminary project engineering   |
| Other  |                                  |  |   |
| Problem Area   |                                  | N  | °   |
| City Burnet  | County Burnet                    |  |   |
| Watershed Headwaters Hamilton<br>name(s)                                     | ı Creek                          |  | S League  |
| Tributary(ies) Hamilton Creek  |                                  |  |   |
| HUC# 12090205 S  | Stream miles (est.) TBD          |  |   |
| Drainage area: square miles, est   | 0.06 or acreage, est.            | 37   |   |
| Social vulnerability index 0.19<br>(SVI score 0.0 indicates least vulnerable | le; 1.0 indicates most vulnerabl | le.)                                       | Part Part Part  |
| Other Watershed Study  |                                  |  | A ANNALA AND A ANNALA AND A ANNALA |

The plant is located within, and may be impacted by, the 100-year floodplain of Hamilton Creek and/or Headwaters of Hamilton Creek. The area has existing local drainage problems and has experienced excessive flow depth and velocity. 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 3

Structures at risk 3

Critical facilities at risk 1

Farm/Ranch land impacted (acres) 12

Structures at risk 3

Roadway(s) impacted (miles) 0.15

## 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). 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

| Flood Mana   | gement Evalua                                | tion (FME) <sub>STUDY</sub>  | Lower Colorado-Lavaca<br>REGIONAL FLOOD            |
|--|--|--|--|
| Title VFW Flood Study  |  | ID# 101000161  | PLANNING GROUP                                     |
| Sponsor (name of entity) Bur   | net (Municipality)                           | Commitment X Yes No  |  |
| Technical committee recomm   | end Yes No RFP                               | G recommend Yes No   | REGION 10  |
| Study Type   |  |  |  |
| Emergency preparedness Other   | Floodplain modeling, map                     | ping and risk assessment 📃 Fe  | easibility study X Preliminary project engineering |
| Problem Area   |  | N  |  |
| City Burnet  | County Burnet                                |  |  |
| Watershed Headwaters Ham<br>name(s)                                    | ilton Creek                                  |  |  |
| Tributary(ies) Unnamed Tribu   | ıtary  | and the second s |  |
| HUC# 12090205  | Stream miles (est.) TBD                      | 77   |  |
| Drainage area: square miles,   | est 0.00 or acreage, est. 1                  |  | A A A A  |
| Social vulnerability index 0.19<br>(SVI score 0.0 indicates least vuln | )<br>erable; 1.0 indicates most vulnerable.) | -  | A AND AND B  |
| Other Watershed Study  |  |  |  |

The area has local drainage problems and is at risk of flooding. The building is located adjacent to the 100-year floodplain and has experienced flooding. 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 1

Critical facilities at risk 0 (miles) 0.00

Farm/Ranch land impacted (acres) 0

## 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).

Roadway(s) impacted (miles)

## **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**

| Flood Manageme   | e <mark>nt Evalu</mark> at | tion (FME) STUDY       | Lower Colorado-Lavaca<br>REGIONAL FLOOD              |
|--|----------------------------|------------------------|--|
| Title Citywide Floodplain Remapping  |                            | ID# 101000171          | PLANNING GROUP                                       |
| Sponsor (name of entity) Marble Falls (M   | lunicipality)              | Commitment X Yes No    |  |
| Technical committee recommend Yes  | No RFPG                    | recommend Yes No       | REGION 10  |
| Study Type   |                            |                        |  |
| Emergency preparedness X Flo   | oodplain modeling, mappi   | ng and risk assessment | easibility study 🛛 📄 Preliminary project engineering |
| Other  |                            |                        |  |
| Problem Area   |                            | N                      |  |
| City Marble Falls Cou  | inty Burnet                |                        |  |
| Watershed Lake Marble Falls, Flatrock Cr<br>name(s)                                  | eek - Lake Travis          | hoe Bay                |  |
| Tributary(ies) Little Flatrock Creek, Flatro   | ck Creek                   |                        |  |
| HUC# 12090205 Stream   | miles (est.) TBD           |                        |  |
| Drainage area: square miles, est 7.13  | or acreage, est. 4,56      | 5                      | 281  |
| Social vulnerability index 0.19<br>(SVI score 0.0 indicates least vulnerable; 1.0 in | dicates most vulnerable.)  |                        |  |
| Other Watershed Study  |                            |                        |  |

The existing floodplain maps are outdated and do not reflect current flood risk.

Population at risk 322

Structures at risk 158

Critical facilities at risk 0 (miles) 2.29

Farm/Ranch land impacted (acres) 329

Roadway(s) impacted (miles)

## Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) and will develop new floodplain maps that reflect current flood risk.

#### 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 \$250,000

| Flood Manag   | gement Evaluat                         | tion (FME) STUDY             | Lower Colorado-Lavaca<br>REGIONAL FLOOD          |
|---|--|------------------------------|--|
| Title Lum Rd, Hilltop Rd, FM  | 2919 N                                 | ID# 101000034                | PLANNING GROUP                                   |
| Sponsor (name of entity) Kend   | leton (Municipality)                   | Commitment X Yes No          |  |
| Technical committee recomme   | nd Yes No RFPG                         | recommend Yes No             | REGION 10  |
| Study Type  |  |                              |  |
| Emergency preparedness  | Floodplain modeling, mappi             | ng and risk assessment $X$ F | easibility study Preliminary project engineering |
| Other   |  |                              |  |
| Problem Area  |  | N                            |  |
| City Kendleton  | County Fort Bend                       |                              |  |
| Watershed Boone Branch - San<br>name(s)                                 | n Bernard River                        |                              |  |
| Tributary(ies) Brooks Branch  |  |                              |  |
| HUC# 12090401   | Stream miles (est.) TBD                |                              |  |
| Drainage area: square miles, es   | st 1.41 or acreage, est. 905           | and the second second        | Kendleton  |
| Social vulnerability index 0.1<br>(SVI score 0.0 indicates least vulner | rable; 1.0 indicates most vulnerable.) | The second                   |  |
| Other Roadway/Crossing Impr   | ovements                               | TRA                          |  |

The existing crossings are undersized and overtop. The proposed improvements include upsizing the existing crossings. Study results will provide a more detailed assessment of existing flood risk and assess potential future projects.

Population at risk 0

Structures at risk 0

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

acted (miles) 0.85

## 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

| Flood Manag   | geme            | nt Evalı              | lation        | (FME) STUDY           | Lower Colorado-Lavaca<br>REGIONAL FLOOD             |
|---|-----------------|-----------------------|---------------|-----------------------|---|
| Title Drainage Improvements   | s to Crawfor    | d Outlet Right-of-V   | Nay           | ID# 101000035         | PLANNING GROUP                                      |
| Sponsor (name of entity) Kend   | lleton (Muni    | cipality)             | Corr          | nmitment 🗙 Yes 📃 No   |   |
| Technical committee recomme   | end Yes         | No                    | RFPG recomm   | nend Yes No           | REGION 10   |
| Study Type  |                 |                       |               |                       |   |
| Emergency preparedness  | Floc            | odplain modeling, n   | napping and r | risk assessment       | Feasibility study X Preliminary project engineering |
| Other   |                 |                       |               |                       |   |
| Problem Area  |                 |                       |               | N                     |   |
| City Kendleton  | Coun            | ity Fort Bend         |               |                       |   |
| Watershed Boone Branch - Sar<br>name(s)                                 | n Bernard Ri    | ver                   |               |                       | H   |
| Tributary(ies) Brooks Branch  |                 |                       |               |                       |   |
| HUC# 12090401   | Stream m        | iles (est.) TBD       |               |                       | Mangellation  |
| Drainage area: square miles, es   | st 1.41         | or acreage, est.      | 905           | and the second second | Kendleton   |
| Social vulnerability index 0.1<br>(SVI score 0.0 indicates least vulner | rable; 1.0 indi | icates most vulnerabl | le.)          | 1                     |   |
| Other Drainage System Improv  | vements         |                       |               | THE                   |   |

The Sponsor has indicated the existing outlet/right-of-way stormwater infrastructure is undersized and the area is at risk of localized flooding. The exact 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 12

Structures at risk 11

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 69

Poodwowl

Roadway(s) impacted (miles) 0.85

## 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. 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

| Flood Management Evaluation (FME) STUDY Lower Colorado-Lavaca<br>REGIONAL FLOOD   |  |                |  |  |  |  |
|---|--|----------------|--|--|--|--|
| Title Gene and Church Streets   | ID# 101000037  | PLANNING GROUP |  |  |  |  |
| Sponsor (name of entity) Needville (Municipality)   | Commitment 🗙 Yes 👘 No  |                |  |  |  |  |
| Technical committee recommend Yes No RFPG   | recommend Yes No   | REGION 10      |  |  |  |  |
| Study Type         Emergency preparedness       Floodplain modeling, mappi         Other  | Study Type         Emergency preparedness       Floodplain modeling, mapping and risk assessment         Feasibility study       X         Preliminary project engineering |                |  |  |  |  |
| Problem Area  |  | Needville      |  |  |  |  |
| City Needville County Fort Bend   | N  |                |  |  |  |  |
| Watershed Cedar Creek<br>name(s)  |  |                |  |  |  |  |
| Tributary(ies) Unnamed Tributary  |  |                |  |  |  |  |
| HUC# 12090401,12070104 Stream miles (est.) TBD  |  |                |  |  |  |  |
| Drainage area: square miles, est 0.16 or acreage, est. 104  |  |                |  |  |  |  |
| Social vulnerability index 0.1<br>(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)<br>Other Roadway/Crossing Improvements |  |                |  |  |  |  |
|   | A Star   |                |  |  |  |  |

The existing crossing is undersized and overtops. The proposed improvements include installation of culverts. The existing road is a 2-lane road with an average daily traffic count of 321.

Population at risk 0

Structures at risk 0

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

\_\_\_\_\_

Roadway(s) impacted (miles) 0.10

## Scope of Study

Conduct a study to evaluate the proposed 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)

6.2 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

| Flood Management Evaluat   | tion (FME) <sub>STUDY</sub> | Lower Colorado-Lavaca<br>REGIONAL FLOOD           |
|--|-----------------------------|---|
| Title 800 Block W San Antonio  | ID# 101000038               | PLANNING GROUP                                    |
| Sponsor (name of entity) Fredericksburg (Municipality)   | Commitment X Yes No         |   |
| Technical committee recommend Yes No RFPG  | recommend Yes No            | REGION 10   |
| Study Type   |                             |   |
| Emergency preparedness Floodplain modeling, mappi  | ng and risk assessment Fea  | asibility study X Preliminary project engineering |
| Other  |                             |   |
| Problem Area   | N                           |   |
| City Fredericksburg County Gillespie   |                             |   |
| Watershed Barons Creek<br>name(s)  |                             | 5 CHOIN ST  |
| Tributary(ies) Unnamed Tributary   | NOW STR                     | 9   |
| HUC# 12090206 Stream miles (est.) TBD  | 18He Hall                   |   |
| Drainage area: square miles, est 0.00 or acreage, est. 1   | S138 - 1                    |   |
| Social vulnerability index 0.1<br>(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.) | and a                       |   |
| Other Roadway/Crossing Improvements & Channel Improvements   |                             |   |

The existing crossing is undersized and overtops. The existing crossing is a multi-box (2) crossing. The proposed improvements include channels and drop structures. The existing road is a 2-lane road with an average daily traffic count of 510.

Population at risk 0

Structures at risk 0

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

# 0.15

#### 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)

6.2 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

| Flood Management Evaluat   | Lower Colorado-Lavaca<br>REGIONAL FLOOD  |   |
|--|--|---|
| Title South End of Acorn Street  | ID# 101000039  | PLANNING GROUP                                  |
| Sponsor (name of entity) Fredericksburg (Municipality)   | Commitment 🗙 Yes 📃 No  |   |
| Technical committee recommend Ves No RFPG  | recommend Yes No   | REGION 10                                       |
| Study Type   |  |   |
| Emergency preparedness Floodplain modeling, mappi  | ng and risk assessment Feas  | ibility study X Preliminary project engineering |
| Problem Area   | N  |   |
| City Fredericksburg County Gillespie   |  |   |
| Watershed Barons Creek<br>name(s)  |  | 55 H  |
| Tributary(ies) Barons Creek  |  | eart  |
| HUC# 12090206 Stream miles (est.) 0.10   | C C C C C C C C C C C C C C C C C C C  | 9 <sup>8</sup>                                  |
| Drainage area: square miles, est 0.00 or acreage, est. 2   | statistics statis |   |
| Social vulnerability index 0.1<br>(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.) |  |   |
| Other Channel Improvements   |  | W.  |

There is a lack of conveyance from Acorn Street to Barons Creek. Stormwater runs off public right-of-way through private property and is creating local flooding issues as well as eroding the left bank of the Creek. Study results would 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 1

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

\_\_\_\_\_

Roadway(s) impacted (miles) 0.10

## 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

| Flood Management Evaluation (FME) STUDY Lower Colorado-Lavaca<br>REGIONAL FLOOD                                  |                             |   |  |  |  |
|--|-----------------------------|---|--|--|--|
| Title Bowie & Peach Street   | ID# 101000042               | PLANNING GROUP  |  |  |  |
| Sponsor (name of entity) Fredericksburg (Municipality)   | Commitment 🗙 Yes 📃 No       |   |  |  |  |
| Technical committee recommend Ves No RFPG  | recommend Yes No            | REGION 10   |  |  |  |
| Study Type   |                             |   |  |  |  |
| Emergency preparedness Floodplain modeling, mapping  | ng and risk assessment Feas | ibility study X Preliminary project engineering   |  |  |  |
| Other  |                             |   |  |  |  |
| Problem Area   | N                           |   |  |  |  |
| City Fredericksburg County Gillespie   |                             |   |  |  |  |
| Watershed Barons Creek<br>name(s)  |                             | Mausin St. Chilbert   |  |  |  |
| Tributary(ies) Barons Creek  |                             | the second se |  |  |  |
| HUC# 12090206 Stream miles (est.) TBD  | × ×                         | 5- Waln St  |  |  |  |
| Drainage area: square miles, est 0.06 or acreage, est. 36  | The Astrony Party of the    | Set States States   |  |  |  |
| Social vulnerability index 0.1   |                             |   |  |  |  |
| (SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)<br>Other Drainage System Improvements | S Bowie St                  |   |  |  |  |
|  |                             | (290)   |  |  |  |

The storm sewer system and curb inlets need to be upgraded to include two 36" RCPs. 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 250

Structures at risk 90

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

1.08

## 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, rightof-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 \$100,000

| Flood Managemen   | nt Evaluatio               | n (FME) <sub>study</sub> | Lower Colorado-Lavad<br>REGIONAL FLOO    |          |
|---|----------------------------|--------------------------|--|----------|
| Title 112 W Park  |                            | ID# 101000044            | <b>PLANNING GROU</b>                     |          |
| Sponsor (name of entity) Fredericksburg (Mu   | unicipality) C             | ommitment 🗙 Yes 📃 No     |  |          |
| Technical committee recommend Yes   | No RFPG recor              | mmend Yes No             | REGION 10                                |          |
| Study Type  |                            |                          |  |          |
| Emergency preparedness Floodp<br>Other  | olain modeling, mapping ar | id risk assessment Fea   | sibility study X Preliminary project eng | ineering |
| Problem Area  |                            | N                        |  | 0        |
| City Fredericksburg County  | Gillespie                  |                          |  |          |
| Watershed Barons Creek<br>name(s)   |                            |                          |  | <b>H</b> |
| Tributary(ies) Unnamed Tributary  |                            |                          | Wp                                       | 43       |
| HUC# 12090206 Stream miles  | s (est.) 0.10              | 3 - TE 8                 | W Park St                                | 48.      |
| Drainage area: square miles, est 0.00 o   | or acreage, est. 1         | 198                      |  | 1        |
| Social vulnerability index 0.1<br>(SVI score 0.0 indicates least vulnerable; 1.0 indicate | tes most vulnerable.)      | E                        |  |          |
| Other Channel Improvements  |                            | ACC TO AN                |  |          |

There is a lack of conveyance from Park Street to Barons Creek. Stormwater runs off public right-of-way through private property and is creating local flooding issues as well as eroding the left bank of the Creek. 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 1

Critical facilities at risk 0 d (miles) 0.10

#### Farm/Ranch land impacted (acres) 0

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, rightof-way needs, and constructability).

Roadway(s) impacted (miles)

## 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**