Flood Management Evaluation (FME)

Title: Planning Phase Study Report for Fairgreen & Eastex Freeway Forest Subdivisions Drainage Improvements 2019

ID# 061000414

Sponsor (name of entity, not person): Harris (County)

RFPG recommend?: -  Reason for Recommendation -

Study Details

Study type: Project Planning


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

County: Harris
Watershed HUC#: (if known) 120401040604,120401040603

Drainage area (Square miles, est.): 0  Goal(s): 06000001,06000011,06000012,06000015

100-Year Flood Risk Summary

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

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

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

Number of low water crossings: -  Historical road closures: -

Estimated Cost and Funding Availability

Total Cost: $755,000  Amount of Available Funding: -  Federal funding availability: -

Funding source: Harris County Bond Program 2018

San Jacinto Regional Flood Planning Group

R E G I O N 6

FME Area

Regional view of FME area
### Flood Management Evaluation (FME)

<table>
<thead>
<tr>
<th>Title</th>
<th>Preliminary Drainage &amp; Infrastructure Improvements Happy Hide A Way Subdivison</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID#</td>
<td>061000025</td>
</tr>
<tr>
<td>Sponsor</td>
<td>Harris (County)</td>
</tr>
<tr>
<td>RFPG recommend?</td>
<td>-</td>
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#### Study Details

<table>
<thead>
<tr>
<th>Study type</th>
<th>Project Planning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Study description</td>
<td>Additional analysis in the Jackson Bayou watershed, specifically along R102-00-00, is needed to determine the necessary improvements and provide a no impact solution.</td>
</tr>
</tbody>
</table>

| New Hydrologic or Hydraulic model? | - |
| County | Harris |
| Watershed HUC# (if known) | 120401040704 |
| Drainage area (Square miles, est.) | 0 |
| Goal(s) | 060000001,06000011,06000012,06000015 |

#### 100-Year Flood Risk Summary

| Population at risk | - |
| Flood risk type | Riverine? | <Null> |
| Coastal? | <Null> |
| Local? | <Null> |
| Playa? | <Null> |
| Farm/Ranch land impacted (acres) | - |
| Number of low water crossings | - |
| Roadway(s) impacted (length) | - |
| Historical road closures | - |

#### Estimated Cost and Funding Availability

| Total Cost | $890,000 |
| Amount of Available Funding | - |
| Federal funding availability | - |
### Flood Management Evaluation (FME)

**Title**: Property Protection, Structural Project  
**ID**: 061000086  
**Sponsor (name of entity, not person)**: New Waverly (Municipality)  
**RFPG recommend?**: -  
**Reason for Recommendation**: -

#### Study Details

<table>
<thead>
<tr>
<th>Study type</th>
<th>Project Planning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Study description</td>
<td>Generate base flood elevation data for flood map revisions. Use floodplain study to identify future mitigation activities to improve water ways and flood carrying capacities. Area to include approximately 4 miles of floodway in New Waverly.</td>
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</table>

<table>
<thead>
<tr>
<th>New Hydrologic or Hydraulic model?</th>
<th>-</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency Need?</td>
<td>-</td>
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<tr>
<td>Existing/Anticipated models in near term?</td>
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<table>
<thead>
<tr>
<th>County</th>
<th>Walker</th>
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<tbody>
<tr>
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<td>Drainage area (Square miles, est.)</td>
<td>2</td>
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#### 100-Year Flood Risk Summary

<table>
<thead>
<tr>
<th>Population at risk</th>
<th>19</th>
</tr>
</thead>
<tbody>
<tr>
<td># of structures</td>
<td>23</td>
</tr>
<tr>
<td>Critical facilities</td>
<td>0</td>
</tr>
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<table>
<thead>
<tr>
<th>Flood risk type</th>
<th>Riverine?</th>
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<tbody>
<tr>
<td>Coastal?</td>
<td>No</td>
<td></td>
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<tr>
<td>Local?</td>
<td>No</td>
<td></td>
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<tr>
<td>Playa?</td>
<td>No</td>
<td></td>
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<table>
<thead>
<tr>
<th>Farm/Ranch land impacted (acres)</th>
<th>1</th>
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<tbody>
<tr>
<td>Roadway(s) impacted (length)</td>
<td>0</td>
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<tr>
<td>Number of low water crossings</td>
<td>0</td>
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<tr>
<td>Historical road closures</td>
<td>0</td>
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#### Estimated Cost and Funding Availability

<table>
<thead>
<tr>
<th>Total Cost</th>
<th>$100,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amount of Available Funding</td>
<td>-</td>
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<tr>
<td>Federal funding availability</td>
<td>-</td>
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<tr>
<td>Funding source</td>
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**FME Area**

**Regional view of FME area**
Flood Management Evaluation (FME)

Title: Raise Road Surfaces in City of Plum Grove

ID#: 061000102

Sponsor (name of entity, not person): Plum Grove (Municipality)

RFPG recommend?:

Reason for Recommendation:

Study Details

Study type: Project Planning

Study description: Further evaluation of road surface elevation.

New Hydrologic or Hydraulic model?:

Emergency Need?:

Existing/Anticipated models in near term?:

County: Liberty

Watershed HUC#: 120401030402

Drainage area (Square miles, est.): 4

Goal(s): 06000001, 06000011, 06000012, 06000015

100-Year Flood Risk Summary

Population at risk: 589

# of structures: 363

Critical facilities: 1

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

Farm/Ranch land impacted (acres): 9

Roadway(s) impacted (length): 9

Number of low water crossings: 0

Historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $50,000

Amount of Available Funding: -

Federal funding availability: -

Funding source: -
### Flood Management Evaluation (FME)

<table>
<thead>
<tr>
<th>Title</th>
<th>Ralston Acres Subdivision Drainage Improvements</th>
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<tr>
<td>ID#</td>
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<td>Harris (County)</td>
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<td>-</td>
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<tr>
<td>Reason for Recommendation</td>
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#### Study Details

<table>
<thead>
<tr>
<th>Study type</th>
<th>Project Planning</th>
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<tbody>
<tr>
<td>Study description</td>
<td>Study to develop a Benefit Cost Analysis needed for this project to become a FMP. FIF application information unavailable.</td>
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<tr>
<td>New Hydrologic or Hydraulic model?</td>
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<td>Emergency Need?</td>
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<td>Existing/Anticipated models in near term?</td>
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<tr>
<td>County</td>
<td>Harris</td>
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<tr>
<td>Goal(s)</td>
<td>06000001,06000011,06000012,06000015</td>
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#### 100-Year Flood Risk Summary

<table>
<thead>
<tr>
<th>Population at risk</th>
<th>571</th>
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<tbody>
<tr>
<td># of structures</td>
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<td>Critical facilities</td>
<td>0</td>
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<tr>
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<td>Riverine? Yes, Coastal? No, Local? No, Playa? No</td>
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<td>Roadway(s) impacted (length)</td>
<td>7</td>
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<td>Number of low water crossings</td>
<td>0</td>
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<tr>
<td>Historical road closures</td>
<td>0</td>
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<tr>
<td>Farm/Ranch land impacted (acres)</td>
<td>4</td>
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#### Estimated Cost and Funding Availability

<table>
<thead>
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<th>Total Cost</th>
<th>$30,000</th>
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<tr>
<td>Amount of Available Funding</td>
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<td>Federal funding availability</td>
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#### Maps

**FME Area**

**Regional view of FME area**
Flood Management Evaluation (FME)

Title: Recanalization Feasibility Study

ID#: 061000135

Sponsor (name of entity, not person): Liberty (County)

RFPG recommend?: -
Reason for Recommendation: -

Study Details

Study type: Project Planning
Study description: Dechannelize existing feeder creeks that flow from north to south and improve drainage for storm water runoff.

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

County: Liberty
Watershed HUC# (if known): 120401030201, 120401030108, 120401030109, 120401030205, 120401030

Drainage area (Square miles, est.): 1,170
Goal(s): 06000001, 06000011, 06000012, 06000015

100-Year Flood Risk Summary

Population at risk: 4,854
# of structures: 3,618
Critical facilities: 8

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

Farm/Ranch land impacted (acres): 1,379
Roadway(s) impacted (length): 144

Number of low water crossings: 7
Historical road closures: 7

Estimated Cost and Funding Availability

Total Cost: $50,000
Amount of Available Funding: -
Federal funding availability: -

Funding source: -
Flood Management Evaluation (FME)

Title: Regional Implementation of Large Diameter Deep Tunnel Systems for Storm Water Management
ID#: 061000175
Sponsor (name of entity, not person): Harris County Flood Control District
RFPG recommend?: -
Reason for Recommendation: -

Study Details
Study type: Project Planning
Study description: Further study of regional Implementation of Large Diameter Deep Tunnel Systems for Storm Water Management

New Hydrologic or Hydraulic model?: -
Emergency Need?: -
Existing/Anticipated models in near term?: -
County: Harris
Watershed HUC# (if known): 120401010502, 120401040605, 120401040703, 120401040705, 1204010407
Drainage area (Square miles, est.): 1,771
Goal(s): 06000001, 06000011, 06000012, 06000015

100-Year Flood Risk Summary
Population at risk: 976,798
# of structures: 143,642
Critical facilities: 2,332
Flood type: Riverine? Yes, Coastal? Yes, Local? No, Playa? Yes
Farm/Ranch land impacted (acres): 5,993
Roadway(s) impacted (length): 2,408
Number of low water crossings: 89
Historical road closures: 89
Flood risk type: Coastal? Yes, Local? No, Playa? Yes

Estimated Cost and Funding Availability
Total Cost: $20,000,000
Amount of Available Funding: -
Federal funding availability: -
Funding source: -
Flood Management Evaluation (FME)

**Title:** Remedy Data Deficiency in City of New Waverly

**ID#** 061000116

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

**RFPG recommend?** -

**Reason for Recommendation** -

### Study Details

**Study type:** Watershed Planning

**Study description:** Conduct a proper risk assessment of the dams residents suspect are causing upstream flooding, and determine all potential inundation areas.

**New Hydrologic or Hydraulic model?** -

**Emergency Need?** -

**Existing/Anticipated models in near term?** -

**County:** Walker

**Watershed HUC# (if known):** 120401030101

**Drainage area (Square miles, est.):** 2

**Goal(s):** 06000001, 06000010, 06000015

### 100-Year Flood Risk Summary

<table>
<thead>
<tr>
<th>Population at risk</th>
<th># of structures</th>
<th>Critical facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>23</td>
<td>0</td>
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<table>
<thead>
<tr>
<th>Flood risk type</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Riverine?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coastal?</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Local?</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Playa?</td>
<td>No</td>
<td></td>
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<table>
<thead>
<tr>
<th>Farm/Ranch land impacted (acres)</th>
<th>1</th>
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</table>

<table>
<thead>
<tr>
<th>Number of low water crossings</th>
<th>0</th>
</tr>
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<table>
<thead>
<tr>
<th>Roadway(s) impacted (length)</th>
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<table>
<thead>
<tr>
<th>Historical road closures</th>
<th>0</th>
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### Estimated Cost and Funding Availability

<table>
<thead>
<tr>
<th>Total Cost</th>
<th>Amount of Available Funding</th>
<th>Federal funding availability</th>
</tr>
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<tbody>
<tr>
<td>$100,000</td>
<td>-</td>
<td>-</td>
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**Funding source** -
Title: Replace Existing Culverts in City of Arcola

ID#: 061000124

Sponsor (name of entity, not person): Arcola (Municipality)

RFPG recommend?: - Reason for Recommendation: -

Study Details

Study type: Project Planning

Study description: Evaluation of proposed culvert replacement.

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

County: Fort Bend

Watershed HUC#: 120402040400

Drainage area (Square miles, est.): 3

Goal(s): 06000001, 06000011, 06000012, 06000015

100-Year Flood Risk Summary

Population at risk: 39

# of structures: 41

Critical facilities: 0

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

Farm/Ranch land impacted (acres): 1

Roadway(s) impacted (length): 0

Number of low water crossings: 0

Historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $50,000

Amount of Available Funding: -

Federal funding availability: -
Flood Management Evaluation (FME)

Title: Replace the Tiki Drive bridge with improved, hardened bridge to withstand storm surge and debris.

ID# 061000080

Sponsor (name of entity, not person) Tiki Island (Municipality)

RFPG recommend? -

Reason for Recommendation -

Study Details

Study type Project Planning

Study description Further study of proposed Tiki Drive bridge modifications

New Hydrologic or Hydraulic model? -

Emergency Need? -

Existing/Anticipated models in near term? -

County Galveston

Watershed HUC# (if known) 120402040200

Drainage area (Square miles, est.) 2

Goal(s) 06000001, 06000011, 06000012, 06000015

100-Year Flood Risk Summary

Population at risk 1,721

# of structures 1,006

Critical facilities 6

Flood risk type: Riverine? Yes

Coastal? Yes

Local? No

Playa? No

Farm/Ranch land impacted (acres) 4

Roadway(s) impacted (length) 10

Number of low water crossings 0

Historical road closures 0

Estimated Cost and Funding Availability

Total Cost $240,000

Amount of Available Funding -

Federal funding availability -
Flood Management Evaluation (FME)

Title: Rivershire East - Grand Lake Creek Watershed
ID#: 061000452
Sponsor: Conroe (Municipality)
RFPG recommend?: -
Reason for Recommendation: -

Study Details

<table>
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<th>Study type</th>
<th>Project Planning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Study description</td>
<td>Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.</td>
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New Hydrologic or Hydraulic model?: -
Emergency Need?: -
Existing/Anticipated models in near term?: -

County: Montgomery
Watershed HUC#: 120401010207, 120401010401
Drainage area (Square miles, est.): 4
Goal(s): 06000001, 06000011, 06000012, 06000015

100-Year Flood Risk Summary

<table>
<thead>
<tr>
<th>Population at risk</th>
<th>3,099</th>
</tr>
</thead>
<tbody>
<tr>
<td># of structures</td>
<td>516</td>
</tr>
<tr>
<td>Critical facilities</td>
<td>2</td>
</tr>
<tr>
<td>Flood risk type:</td>
<td>Riverine? Yes</td>
</tr>
<tr>
<td>Coastal?</td>
<td>No</td>
</tr>
<tr>
<td>Local?</td>
<td>No</td>
</tr>
<tr>
<td>Playa?</td>
<td>No</td>
</tr>
<tr>
<td>Farm/Ranch land impacted (acres)</td>
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<tr>
<td>Roadway(s) impacted (length)</td>
<td>10</td>
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<td>Number of low water crossings</td>
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</tr>
<tr>
<td>Historical road closures</td>
<td>9</td>
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<tr>
<td>Flood risk type:</td>
<td>Coastal? No</td>
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<tr>
<td>Coastal?</td>
<td>No</td>
</tr>
<tr>
<td>Local?</td>
<td>No</td>
</tr>
<tr>
<td>Playa?</td>
<td>No</td>
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<tr>
<td>Farm/Ranch land impacted (acres)</td>
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<tr>
<td>Roadway(s) impacted (length)</td>
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<tr>
<td>Number of low water crossings</td>
<td>9</td>
</tr>
<tr>
<td>Historical road closures</td>
<td>9</td>
</tr>
</tbody>
</table>

Estimated Cost and Funding Availability

| Total Cost | $30,000 |
| Amount of Available Funding | - |
| Federal funding availability | - |
Flood Management Evaluation (FME)

**Title**
Rivershire West - Grand Lake Creek Watershed

**ID#** 061000453

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

**Estimated Cost and Funding Availability**

| Total Cost | $30,000 | Amount of Available Funding | - | Federal funding availability | - |

**100-Year Flood Risk Summary**

<table>
<thead>
<tr>
<th>Population at risk</th>
<th>3,099</th>
<th># of structures</th>
<th>516</th>
<th>Critical facilities</th>
<th>2</th>
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<tr>
<td>Flood risk type:</td>
<td>Riverine? Yes</td>
<td>Coastal? No</td>
<td>Local? No</td>
<td>Playa? No</td>
<td>Other? No</td>
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<td>Roadway(s) impacted (length)</td>
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<tr>
<td>Number of low water crossings</td>
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<td>Historical road closures</td>
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**Study Details**

**Study type** Project Planning

**Study description** Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.

<table>
<thead>
<tr>
<th>New Hydrologic or Hydraulic model?</th>
<th>-</th>
<th>Emergency Need?</th>
<th>-</th>
<th>Existing/Anticipated models in near term?</th>
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<tr>
<td>County</td>
<td>Montgomery</td>
<td>Watershed HUC# (if known)</td>
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<td>Drainage area (Square miles, est.)</td>
<td>10</td>
<td>Goal(s)</td>
<td>06000001,06000011,06000012,06000015</td>
<td></td>
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**Project Planning**

Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.

**FME Area Regional view of FME area**

**Regional view of FME area**

**FME Area**

**Conroe**
Flood Management Evaluation (FME)

Title: Roman Forest Boulevard Bridge Elevation Project

ID# 061000388

Sponsor (name of entity, not person): Montgomery (County)

RFPG recommend? - Reason for Recommendation -

Study Details

Study type: Project Planning

Study description: Further study of this project involves the study, design, elevation, and replacement of the Roman Forest Boulevard Bridge to mitigate the risks associated with storms and riverine flooding for the approximate 15,000 citizens.

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

County: Montgomery

Watershed HUC# (if known): 120401030109,120401030402

Drainage area (Square miles, est.): 2

Goal(s): 06000001,06000011,06000012,06000015

100-Year Flood Risk Summary

Population at risk: 270

# of structures: 86

Critical facilities: 0

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

Farm/Ranch land impacted (acres): -

Roadway(s) impacted (length): 3

Number of low water crossings: 0

Historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $1,010,000

Amount of Available Funding: -

Federal funding availability: -

Funding source: CDBG-MIT
### Flood Management Evaluation (FME)

**Title:** Rush Creek Lake - Lake Conroe Estates Watershed

**ID:** 061000461

**Sponsor (name of entity, not person):** Conroe (Municipality)

**RFPG recommend?** - **Reason for Recommendation** -

#### Study Details

<table>
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<th>Study description</th>
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</thead>
<tbody>
<tr>
<td>Project Planning</td>
<td>Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.</td>
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<table>
<thead>
<tr>
<th>New Hydrologic or Hydraulic model?</th>
<th>Emergency Need?</th>
<th>Existing/Anticipated models in near term?</th>
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<tbody>
<tr>
<td>-</td>
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<table>
<thead>
<tr>
<th>County</th>
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<tr>
<td>Montgomery</td>
<td>120401010207,120401010206</td>
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</table>

<table>
<thead>
<tr>
<th>Drainage area (Square miles, est.)</th>
<th>Goal(s)</th>
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<tbody>
<tr>
<td>2</td>
<td>06000001,06000011,06000012,06000015</td>
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#### 100-Year Flood Risk Summary

<table>
<thead>
<tr>
<th>Population at risk</th>
<th># of structures</th>
<th>Critical facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,384</td>
<td>374</td>
<td>7</td>
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<table>
<thead>
<tr>
<th>Flood risk type</th>
<th>Coastal</th>
<th>Local</th>
<th>Playa</th>
</tr>
</thead>
<tbody>
<tr>
<td>Riverine</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Coastal</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Local</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Playa</td>
<td>No</td>
<td>Other</td>
<td>No</td>
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</table>

<table>
<thead>
<tr>
<th>Farm/Ranch land impacted (acres)</th>
<th>Roadway(s) impacted (length)</th>
<th>Historical road closures</th>
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<tbody>
<tr>
<td>7</td>
<td>10</td>
<td>7</td>
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</table>

<table>
<thead>
<tr>
<th>Number of low water crossings</th>
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<tbody>
<tr>
<td>7</td>
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#### Estimated Cost and Funding Availability

<table>
<thead>
<tr>
<th>Total Cost</th>
<th>Amount of Available Funding</th>
<th>Federal funding availability</th>
</tr>
</thead>
<tbody>
<tr>
<td>$30,000</td>
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**Funding source** -
# Flood Management Evaluation (FME)

**Title:** San Jacinto Flood Mapping Updates  
**ID:** 061000308  
**Sponsor (name of entity, not person):** San Jacinto (County)  
**RFPG recommend?:** -  
**Reason for Recommendation:** -

### Study Details

**Study type:** Watershed Planning  
**Study description:** County wide study to produce flood mapping updates including Atlas 14 rainfall.

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

<table>
<thead>
<tr>
<th>County</th>
<th>San Jacinto</th>
</tr>
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<tbody>
<tr>
<td>Watershed HUC# (if known)</td>
<td>120401030201,120401030108,120401030106,120401030107,12040103010</td>
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### 100-Year Flood Risk Summary

<table>
<thead>
<tr>
<th>Population at risk</th>
<th>1,376</th>
<th># of structures</th>
<th>1,028</th>
<th>Critical facilities</th>
<th>0</th>
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</thead>
<tbody>
<tr>
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<td>Coastal?</td>
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<tr>
<td>Farm/Ranch land impacted (acres)</td>
<td>63</td>
<td>Roadway(s) impacted (length)</td>
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<tr>
<td>Number of low water crossings</td>
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### Estimated Cost and Funding Availability

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**INSERT LOGO HERE**

**Title:** San Jacinto Flood Mapping Updates  
**ID:** 061000308  
**Sponsor (name of entity, not person):** San Jacinto (County)  
**RFPG recommend?:** -  
**Reason for Recommendation:** -

### Study Details

**Study type:** Watershed Planning  
**Study description:** County wide study to produce flood mapping updates including Atlas 14 rainfall.

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

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**ID:** 061000308  
**Sponsor (name of entity, not person):** San Jacinto (County)  
**RFPG recommend?:** -  
**Reason for Recommendation:** -

### Study Details

**Study type:** Watershed Planning  
**Study description:** County wide study to produce flood mapping updates including Atlas 14 rainfall.

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

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**ID:** 061000308  
**Sponsor (name of entity, not person):** San Jacinto (County)  
**RFPG recommend?:** -  
**Reason for Recommendation:** -

### Study Details

**Study type:** Watershed Planning  
**Study description:** County wide study to produce flood mapping updates including Atlas 14 rainfall.

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

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<td>-</td>
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Flood Management Evaluation (FME)

Title: San Jacinto River - G103-33-04

ID#: 061000208

Sponsor (name of entity, not person): Harris County Flood Control District

RFPG recommend?: -

Reason for Recommendation: -

Study Details

Study type: Project Planning

Study description: Further study of Flood Risk Reduction need identified through the HCFC 'Watershed Planning Tool' to determine channel modifications needed to restore/improve channel conveyance including Atlas 14 rainfall

New Hydrologic or Hydraulic model?: -

Emergency Need?: -

Existing/Anticipated models in near term?: -

County: Harris

Watershed HUC# (if known): 120401010501

Drainage area (Square miles, est.): 1

Goal(s): 06000001, 06000011, 06000012, 06000015

100-Year Flood Risk Summary

Population at risk: 1,580

# of structures: 248

Critical facilities: 1

Flood risk type: Riverine? Yes

Coastal? No

Local? No

Playa? No

Other? No

Farm/Ranch land impacted (acres): -

Roadway(s) impacted (length): 4

Number of low water crossings: 0

Historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $700,000

Amount of Available Funding: -

Federal funding availability: -
Flood Management Evaluation (FME)

Title: San Jacinto River - G103-36-00

ID#: 061000209

Sponsor (name of entity, not person): Harris County Flood Control District

RFPG recommend?: -  Reason for Recommendation: -

Study Details

Study type: Project Planning

Study description: Further study of Flood Risk Reduction need identified through the HCFC 'Watershed Planning Tool' to determine channel modifications needed to restore/improve channel conveyance including Atlas 14 rainfall

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

County: Harris, Montgomery

Watershed HUC#: (if known): 120401010501

Drainage area (Square miles, est.): 59

Goal(s): 06000001, 06000011, 06000012, 06000015

100-Year Flood Risk Summary

Population at risk: 22,355  
Number of structures: 3,840  
Critical facilities: 61

Flood type: Riverine? - Yes  
Coastal? - No  
Local? - No  
Playa? - No

Farm/Ranch land impacted (acres): 114

Number of low water crossings: 1

Roadway(s) impacted (length): 81

Historical road closures: 1

Estimated Cost and Funding Availability

Total Cost: $700,000  
Amount of Available Funding: -  
Federal funding availability: -

Funding source: -
Flood Management Evaluation (FME)

Title: San Jacinto River - G103-46-00

ID#: 061000207

Sponsor (name of entity, not person): Harris County Flood Control District

RFPG recommend?: -

Reason for Recommendation: -

Study Details

Study type: Project Planning

Study description:
Further study of Flood Risk Reduction need identified through the HCFCF 'Watershed Planning Tool' to determine channel modifications needed to restore/improve channel conveyance including Atlas 14 rainfall.

New Hydrologic or Hydraulic model?: -

Emergency Need?: -

Existing/Anticipated models in near term?: -

County: Harris, Montgomery

Watershed HUC# (if known): 120401010501

Drainage area (Square miles, est.): 59

Goal(s): 06000001, 06000011, 06000012, 06000015

100-Year Flood Risk Summary

Population at risk: 22,355

# of structures: 3,840

Critical facilities: 61

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

Farm/Ranch land impacted (acres): 114

Roadway(s) impacted (length): 81

Number of low water crossings: 1

Historical road closures: 1

Estimated Cost and Funding Availability

Total Cost: $700,000

Amount of Available Funding: -

Federal funding availability: -
Flood Management Evaluation (FME)

Title: San Jacinto Watershed and Tributary Barrier and Flood Mitigation - East County Project

ID#: 061000168

Sponsor (name of entity, not person): Montgomery (County)

RFPG recommend?: -

Reason for Recommendation: -

Study Details

Study type: Watershed Planning

Study description: Planning, H&H studies, design, environmental review, and barrier removal for the 98.6 miles of the San Jacinto Watershed and Tributary Barrier and Flood Mitigation-East County project area.

New Hydrologic or Hydraulic model?: -

Emergency Need?: -

Existing/Anticipated models in near term?: -

County: Harris, Liberty, Montgomery, San Jacinto

Watershed HUC# (if known): 120401030402, 120401030401

Drainage area (Square miles, est.): 95

Goal(s): 06000001, 06000010, 06000015

100-Year Flood Risk Summary

Population at risk: 4,867

# of structures: 3,499

Critical facilities: 3

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

Farm/Ranch land impacted (acres): 71

Roadway(s) impacted (length): 102

Number of low water crossings: 1

Historical road closures: 1

Estimated Cost and Funding Availability

Total Cost: $900,000

Amount of Available Funding: -

Federal funding availability: -

Funding source: -
# Flood Management Evaluation (FME)

## Study Details

<table>
<thead>
<tr>
<th>Study type</th>
<th>Watershed Planning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Study description</td>
<td>H&amp;H study, design, tributary barrier removal, and environmental assessments for the 96.2 miles of the San Jacinto Watershed and Tributary Barrier and Flood Mitigation-West County project area.</td>
</tr>
</tbody>
</table>

### New Hydrologic or Hydraulic model? -

### Emergency Need? -

### Existing/Anticipated models in near term? -

### County
- Harris, Montgomery
- Watershed HUC# (if known) 120401010401,120401010402,120401010404

### Drainage area (Square miles, est.) 122

### Goal(s) 06000001,06000010,06000015

## 100-Year Flood Risk Summary

<table>
<thead>
<tr>
<th>Population at risk</th>
<th>12,814</th>
</tr>
</thead>
<tbody>
<tr>
<td># of structures</td>
<td>3,634</td>
</tr>
<tr>
<td>Critical facilities</td>
<td>34</td>
</tr>
</tbody>
</table>

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

**Farm/Ranch land impacted (acres):** 279

**Number of low water crossings:** 8

**Roadway(s) impacted (length):** 89

**Historical road closures:** 8

## Estimated Cost and Funding Availability

<table>
<thead>
<tr>
<th>Total Cost</th>
<th>$900,000</th>
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</table>

## Regional View of FME Area

[Map of the San Jacinto Watershed and Tributary Barrier and Flood Mitigation-West County project area.]

[Map of the FME Area.]
Flood Management Evaluation (FME)

Title: Sandpiper Village Subdivision Drainage Improvements
ID# 061000427
Sponsor (name of entity, not person): Harris (County)
RFPG recommend?: -
Reason for Recommendation: -

Study Details

Study type: Project Planning
Study description: Study to develop a Benefit Cost Analysis needed for this project to become a FMP. FIF application information unavailable.

New Hydrologic or Hydraulic model?: -
Emergency Need?: -
Existing/Anticipated models in near term?: -
County: Harris
Watershed HUC#: 120401020107
Drainage area (Square miles, est.): 2
Goal(s): 06000001, 06000011, 06000012, 06000015

100-Year Flood Risk Summary

<table>
<thead>
<tr>
<th>Population at risk</th>
<th># of structures</th>
<th>Critical facilities</th>
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<tbody>
<tr>
<td>519</td>
<td>196</td>
<td>2</td>
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</table>

Flood type: Riverine? Yes, Coastal? No, Local? No, Playa? No
Farm/Ranch land impacted (acres): 2
Number of low water crossings: 0
Roadway(s) impacted (length): 3
Historical road closures: 0

Estimated Cost and Funding Availability

<table>
<thead>
<tr>
<th>Total Cost</th>
<th>Amount of Available Funding</th>
<th>Federal funding availability</th>
</tr>
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<tr>
<td>$30,000</td>
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Funding source: Unknown
### Flood Management Evaluation (FME)

#### Title
Sawdust Road Bridge Elevation Project

#### ID#
061000426

#### Sponsor (name of entity, not person)
Montgomery (County)

#### RFPG recommend?
-  
**Reason for Recommendation** -

#### Study Details

<table>
<thead>
<tr>
<th>Study type</th>
<th>Project Planning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Study description</td>
<td>Further study of study, design, elevation, &amp; replacement of the Sawdust Road Bridge to mitigate the risks associated with riverine flooding for the citizens residing in the Grogan’s Point and Timberlakes - Timberridge Subdivisions.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>New Hydrologic or Hydraulic model?</th>
<th>-</th>
</tr>
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<tbody>
<tr>
<td>Emergency Need?</td>
<td>-</td>
</tr>
<tr>
<td>Existing/Anticipated models in near term?</td>
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<tr>
<th>County</th>
<th>Harris,Montgomery</th>
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<tbody>
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<td>Watershed HUC# (if known)</td>
<td>120401010402,120401010404,120401020107,120401020210,120401020210,120401020210,120401020210</td>
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<tr>
<th>Drainage area (Square miles, est.)</th>
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#### 100-Year Flood Risk Summary

<table>
<thead>
<tr>
<th>Population at risk</th>
<th>5,042</th>
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<tbody>
<tr>
<td># of structures</td>
<td>794</td>
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<td>Critical facilities</td>
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<table>
<thead>
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<tbody>
<tr>
<td>Coastal?</td>
<td>No</td>
</tr>
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<td>Local?</td>
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<td>Playa?</td>
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<td>Roadway(s) impacted (length)</td>
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<td>Historical road closures</td>
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<th>Number of low water crossings</th>
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<tr>
<th>Funding source</th>
<th>CDBG-MIT</th>
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**FME Area**

**Regional view of FME area**
Flood Management Evaluation (FME)

Title: Shadowbend Drainage Improvements Phase 2

ID#: 061000142

Sponsor (name of entity, not person): Friendswood (Municipality)

RFPG recommend?: -

Reason for Recommendation: -

Study Details

Study type: Project Planning

Study description: Further study of component of 1993 master Drainage Plan Phase 1 to include Atlas 14 rainfall.

New Hydrologic or Hydraulic model?: -

Emergency Need?: -

Existing/Anticipated models in near term?: -

County: Galveston, Harris

Watershed HUC# (if known): 120402040200, 120402040100

Drainage area (Square miles, est.): 21

Goal(s): 06000001, 06000011, 06000012, 06000015

100-Year Flood Risk Summary

Population at risk: 5,467

# of structures: 1,680

Critical facilities: 2

Flood risk type: Yes

Riverine? Yes

Coastal? Yes

Local? No

Playa? No

Farm/Ranch land impacted (acres): 18

Roadway(s) impacted (length): 38

Number of low water crossings: 5

Historical road closures: 5

Estimated Cost and Funding Availability

Total Cost: $100,000

Amount of Available Funding: -

Federal funding availability: -
Flood Management Evaluation (FME)

Title: Shellside Drainage Improvements
ID#: 061000119
Sponsor (name of entity, not person): League City (Municipality)
RFPG recommend?: -
Reason for Recommendation: -

Study Details

Study type: Project Planning
Study description: Further study of proposed drainage improvements to Shellside.

New Hydrologic or Hydraulic model?: -
Emergency Need?: -
Existing/Anticipated models in near term?: -
County: Galveston, Harris
Watershed HUC# (if known): 120402040200, 120402040100
Drainage area (Square miles, est.): 53
Goal(s): 06000001, 06000011, 06000012, 06000015

100-Year Flood Risk Summary

Population at risk: 20,978
# of structures: 5,251
Critical facilities: 25
Flood type: Riverine? Yes
Coastal? Yes
Local? No
Playa? No
Farm/Ranch land impacted (acres): 1,308
Roadway(s) impacted (length): 105
Number of low water crossings: 2
Historical road closures: 2

Estimated Cost and Funding Availability

Total Cost: $100,000
Amount of Available Funding: -
Federal funding availability: -
Funding source: -
Flood Management Evaluation (FME)

Title: Shoreacres Drainage Assessment
ID#: 061000031
Sponsor (name of entity, not person): Shoreacres (Municipality)
RFPG recommend? - Reason for Recommendation -

Study Details
Study type: Project Planning
Study description: Further analysis necessary to determine downstream impacts and whether any additional volume in A104-11-00 would be available during a coincident event on Taylor Bayou.

New Hydrologic or Hydraulic model? - Emergency Need? - Existing/Anticipated models in near term? -
County: Chambers,Harris
Watershed HUC# (if known): 120402040100
Drainage area (Square miles, est.): 1
Goal(s): 06000001,06000011,06000012,06000015

100-Year Flood Risk Summary
Population at risk: 2,456
# of structures: 801
Critical facilities: 3
Flood risk type: 
Riverine? Yes
Coastal? Yes
Local? No
Playa? No
Roadway(s) impacted (length): 17
Number of low water crossings: 1
Historical road closures: 1

Estimated Cost and Funding Availability
Total Cost: $100,000
Amount of Available Funding: -
Federal funding availability: -
Funding source: -
Flood Management Evaluation (FME)

Title: Sims Bayou C116 Storm Sewer Improvement [C116-00-00-P001] From Mykawa Road to Telephone Road

ID#: 061000364

Sponsor (name of entity, not person): Harris County Flood Control District

RFPG recommend?: -

Reason for Recommendation: -

Study Details

Study type: Project Planning

Study description: Study to develop a BCR required for this project to become a FMP. To increase the system C116 capacity, Alternative 1 adds capacity to the C116 system trunkline through an additional parallel trunkline, from Dixie Drive to Sims Bayou.

New Hydrologic or Hydraulic model?: -

Emergency Need?: -

Existing/Anticipated models in near term?: -

County: Harris

Watershed HUC#: 120401040502

Drainage area (Square miles, est.): 1

Goal(s): 06000001, 06000011, 06000012, 06000015

100-Year Flood Risk Summary

Population at risk: 0

# of structures: 0

Critical facilities: 0

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

Roadway(s) impacted (length): -

Number of low water crossings: -

Number of low water crossings: -

Estimated Cost and Funding Availability

Total Cost: $30,000

Amount of Available Funding: -

Federal funding availability: -

Funding source: -