VOLUME 2
Appendix 5-C

FINAL
REGION 5 NECHES 2023 REGIONAL FLOOD PLAN

JANUARY 2023

PREPARED FOR THE

REGION 5 NECHES FLOOD PLANNING GROUP

APPENDIX 5-C
FLOOD MANAGEMENT EVALUATIONS (FME), FLOOD MANAGEMENT STRATEGIES (FMS), AND FLOOD MITIGATION PROJECT ONE-PAGERS

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Hardin County South Area Drainage System

ID#: 051000089 Sponsor: Hardin (County)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Hardin

Study description: H&H study to identify alternatives for developing a drainage system to drain / retain flood waters around the communities of Pinewood, Countrywood, Bevil Oaks, and Rose Hill

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 886

Goal(s):
Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
Goal 3: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.
Goal 4: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
Goal 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk: 10,526 # of structures: 3,676 # of critical facilities: 25

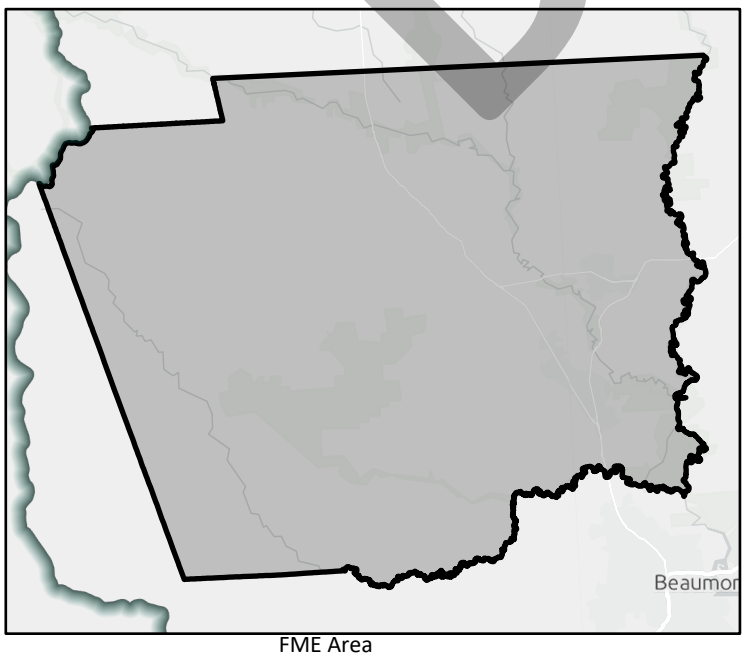
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 743 Roadways impacted (miles): 136

# of low water crossings: 13 # of historical road closures: 13

Estimated Cost and Funding Availability

Total Cost: $1,000,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Hardin County SE Area Drainage System

ID#: 051000090 Sponsor: Hardin (County)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Hardin

Study description: H&H study to identify alternatives for developing a large drainage system to drain Lumberton directly into the Neches River, instead of Pine Island Bayou.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 888

Goal(s):
Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
Goal 3: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.
Goal 4: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
Goal 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk: 10,528 # of structures: 3,678 # of critical facilities: 25

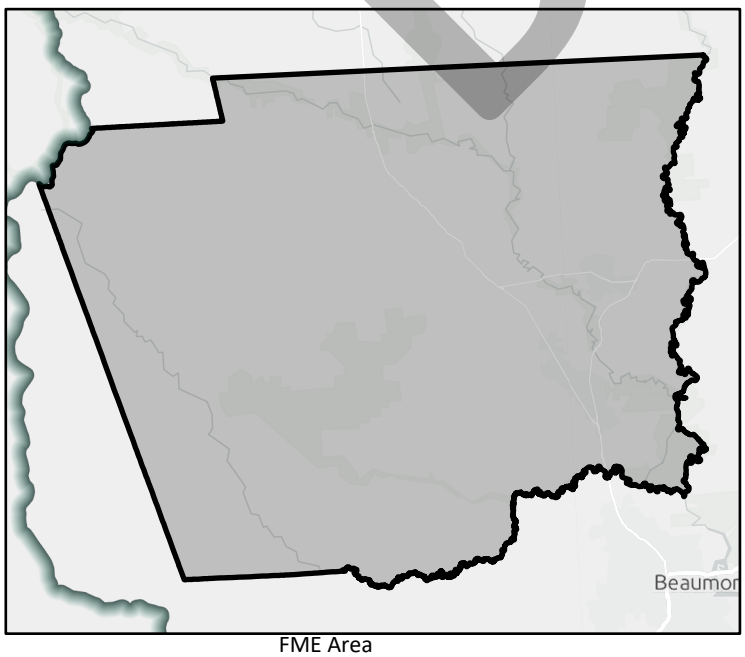
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 743 Roadways impacted (miles): 136

# of low water crossings: 13 # of historical road closures: 13

Estimated Cost and Funding Availability

Total Cost: $1,250,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Hardin County Pinewood Drainage Improvements

ID#: 051000091 Sponsor: Hardin (County)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Hardin

Study description: H&H Study to identify alternatives for improving existing drainage within Pinewood.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 43

Goal(s): Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
Goal 3: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.
Goal 4: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
Goal 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk: 1,277 # of structures: 648 # of critical facilities: 1

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

Farm/Ranch land impacted (ac.): 43 Roadways impacted (miles): 14

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $350,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -

FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Hardin County Coon Marsh Gully Drainage Improvements

ID# 051000092 Sponsor: Hardin (County)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Hardin

Study description: H&H Study to identify alternatives for improving existing drainage within Marsh Gully

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 2

Goal(s):
Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
Goal 3: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.
Goal 4: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
Goal 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk: 878 # of structures: 285 # of critical facilities: 1

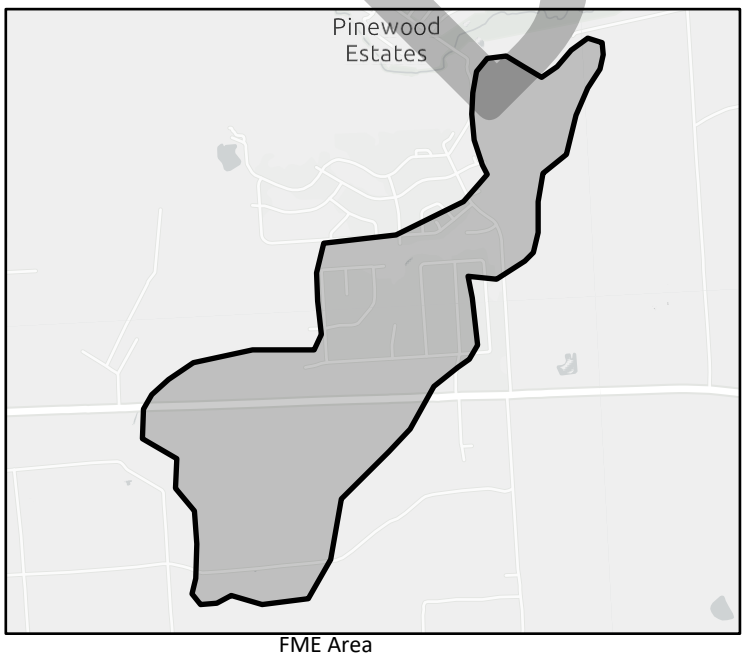
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? No

Farm/Ranch land impacted (ac.): 10 Roadways impacted (miles): 6

# of low water crossings: 2 # of historical road closures: 2

Estimated Cost and Funding Availability

Total Cost: $300,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Hardin County Municipal Storm Drain Project

ID#: 051000093 Sponsor: Hardin (County)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson, Hardin

Study description: Evaluate project to quantify benefits, evaluate impacts, and begin design.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 128

Goal(s): Goal 1: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.
Goal 2: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
Goal 3: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 4: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.
Goal 5: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
Goal 6: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

100-Year Flood Risk Summary

Population at risk: 10,916 # of structures: 3,487 # of critical facilities: 8

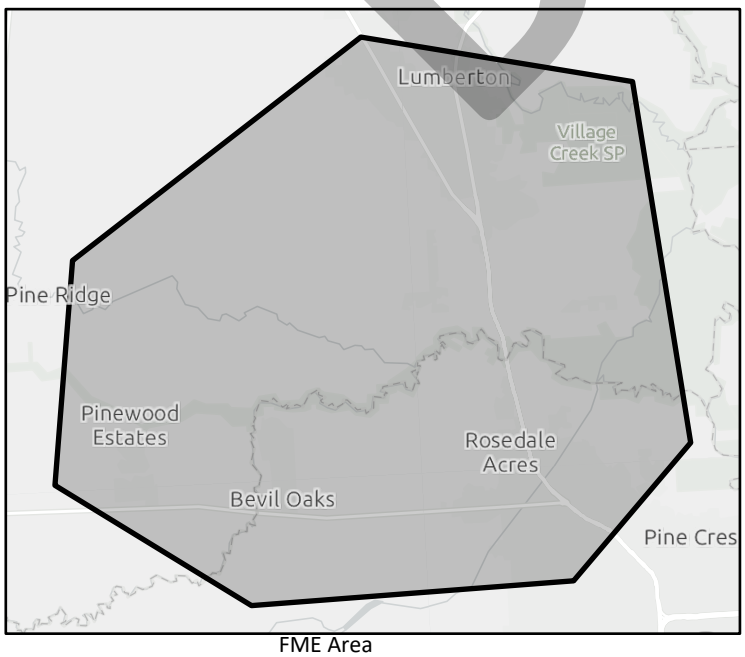
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 395 Roadways impacted (miles): 75

# of low water crossings: 5 # of historical road closures: 5

Estimated Cost and Funding Availability

Total Cost: $2,000,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: City of Coffee City Flood-prone Roadway and Infrastructure Evaluation

ID#: 051000094 Sponsor: Coffee City (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Henderson

Study description: Locate roadways and properties prone to flooding due to heavy rainfall

FME to create new H&H model? No Emergency Need? No Anticipated models in near term? No Drainage area (sq. mi., est.) 7

Goal(s): Goal 1: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
Goal 2: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

100-Year Flood Risk Summary

Population at risk: 6 # of structures: 4 # of critical facilities: 0

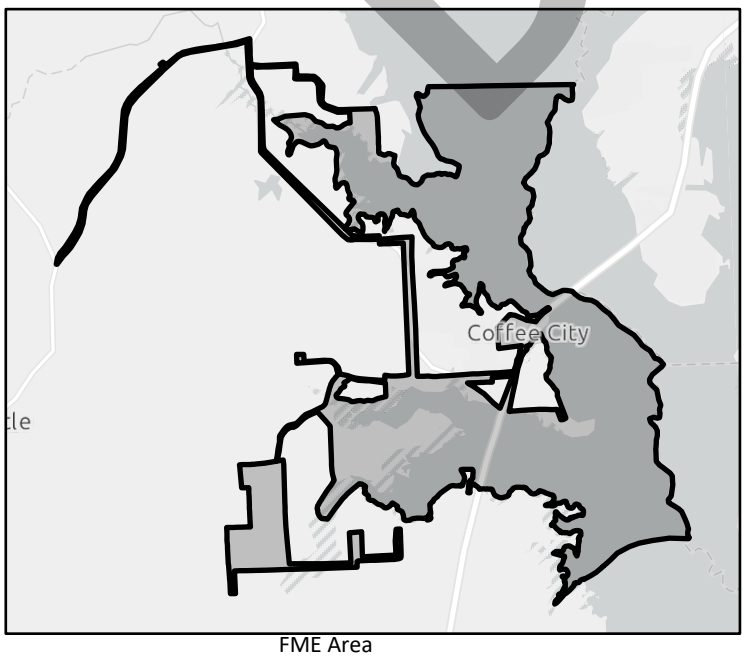
Flood risk type: Riverine? Yes Coastal? No Local Flooding? Yes Other? Yes

Farm/Ranch land impacted (ac.): 3 Roadways impacted (miles): 1

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $25,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: City of Moore Station Flood-prone Roadway and Infrastructure Evaluation

ID# 051000095 Sponsor: Moore Station (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Henderson

Study description: Locate roadways and properties prone to flooding due to heavy rainfall

FME to create new H&H model? No Emergency Need? No Anticipated models in near term? No Drainage area (sq. mi., est.) 1

Goal(s): Goal 1: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
Goal 2: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

100-Year Flood Risk Summary

Population at risk: 5 # of structures: 2 # of critical facilities: 0

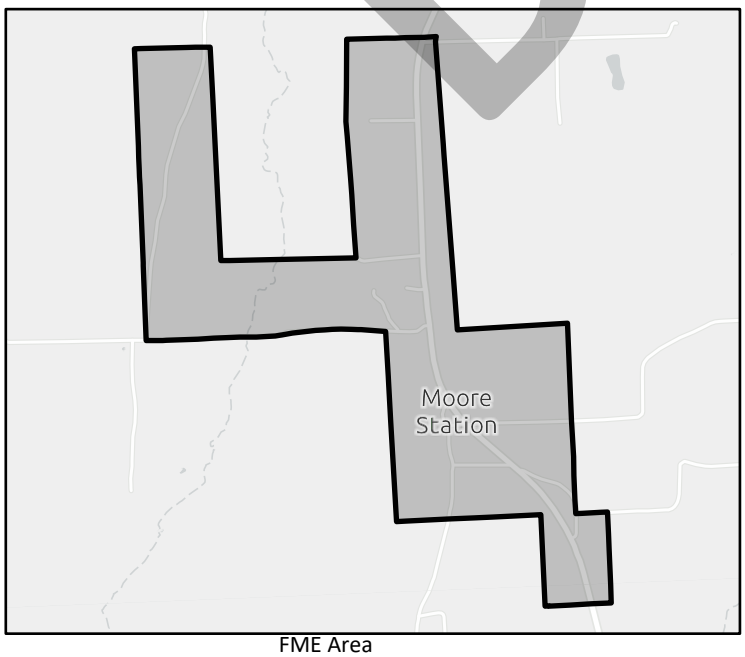
Flood risk type: Riverine? Yes Coastal? No Local Flooding? Yes Other? No

Farm/Ranch land impacted (ac.): 0 Roadways impacted (miles): 0

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $25,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Houston County Earthen Dike Construction

ID#: 051000096 Sponsor: Houston (County)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Houston

Study description: Evaluate project to quantify benefits, evaluate impacts, and begin design. Project consists of an earthen dike to elevate emergency vehicle access road to critical facilities to provide protection to the 500-year flood level.

FME to create new H&H model? Yes Emergency Need? No Anticipated models in near term? Yes Drainage area (sq. mi., est.) 418

Goal(s):
Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
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Goal 4: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
Goal 5: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

100-Year Flood Risk Summary

Population at risk: 16 # of structures: 17 # of critical facilities: 0

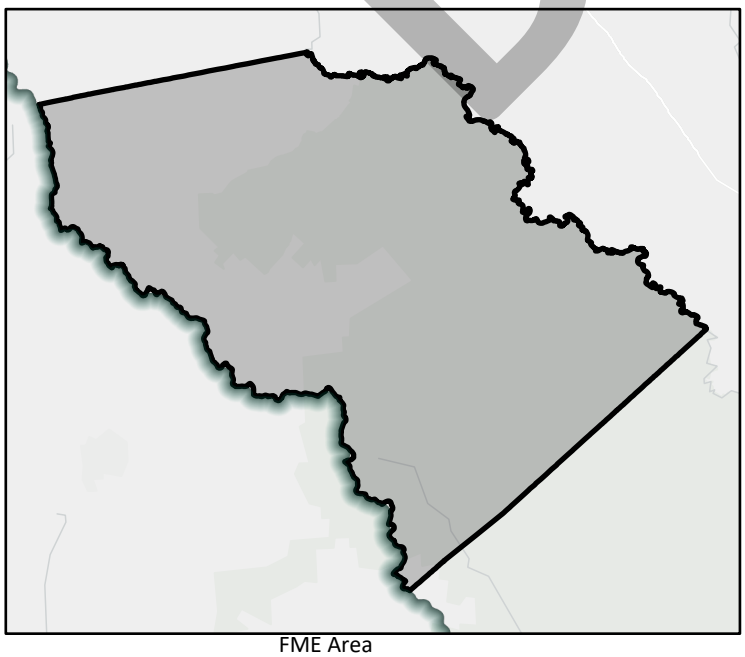
Flood risk type: Riverine? Yes Coastal? No Local Flooding? Yes Other? Yes

Farm/Ranch land impacted (ac.): 117 Roadways impacted (miles): 20

# of low water crossings: 7 # of historical road closures: 7

Estimated Cost and Funding Availability

Total Cost: $16,972 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Ditch 100 A (East Caldwood) Improvements

ID# 051000097 Sponsor: Jefferson County Drainage District 6

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: Evaluate project to quantify benefits, evaluate impacts, and begin design. Project consists of 2,200 ft of channel to be retrofitted with an underground culvert to allow for shaping and resizing the ditch to allow for continued maintenance.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 146

Goal(s):
Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
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Goal 4: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
Goal 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk: 13,665 # of structures: 2,893 # of critical facilities: 22

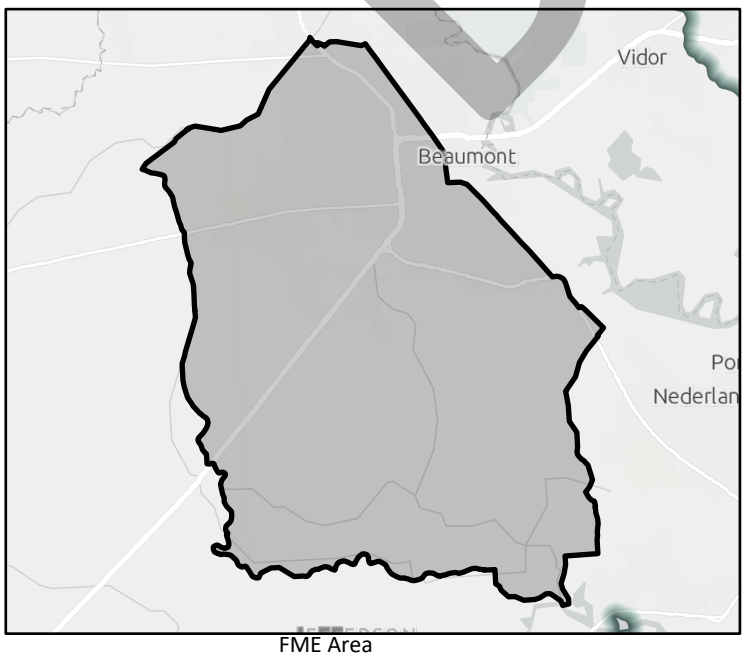
Flood risk type: Riverine? Yes Coastal? Yes Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 4,386 Roadways impacted (miles): 70

# of low water crossings: 5 # of historical road closures: 5

Estimated Cost and Funding Availability

Total Cost: $75,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Ditch 119 Crossings at Yount and Edson

ID#: 051000098 Sponsor: Jefferson County Drainage District 6

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: Evaluate project to quantify benefits, evaluate impacts, and begin design. Project consists of crossing improvements that will protect about 50 homes and mitigate flood risk on a historically flood prone road.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 146

Goal(s):
Goal 1: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.
Goal 2: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
Goal 3: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 4: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.
Goal 5: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
Goal 6: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

100-Year Flood Risk Summary

Population at risk: 13,665 # of structures: 2,893 # of critical facilities: 22

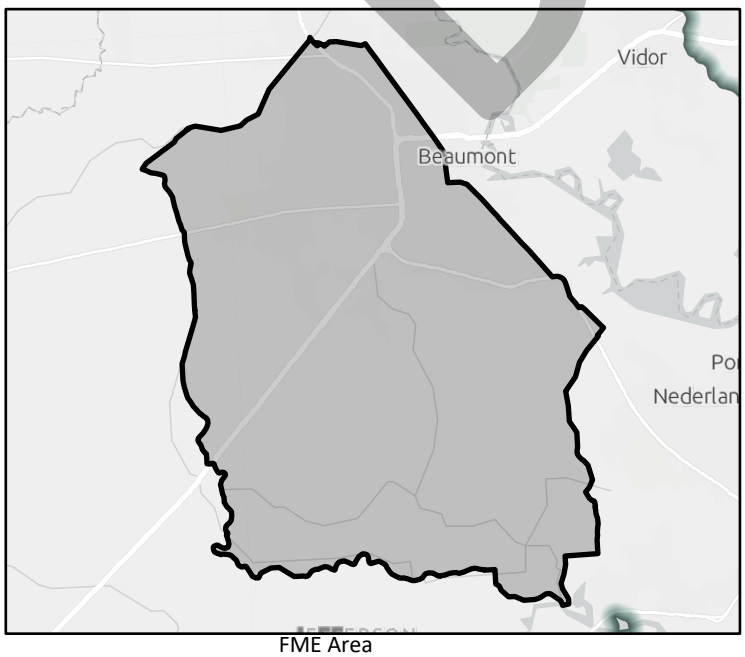
Flood risk type: Riverine? Yes Coastal? Yes Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 4,386 Roadways impacted (miles): 70

# of low water crossings: 5 # of historical road closures: 5

Estimated Cost and Funding Availability

Total Cost: $50,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Lateral B4A and B4A Ext. Improvements

ID# 051000099 Sponsor: Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: Evaluate project to quantify benefits, evaluate impacts, and begin design. Project consists of widening those channels to increase the runoff capacity – upgrading/enlarging road crossings to reduce out of bank flooding.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 324

Goal(s):
Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
Goal 3: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.
Goal 4: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
Goal 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk: 18,000 # of structures: 5,013 # of critical facilities: 83

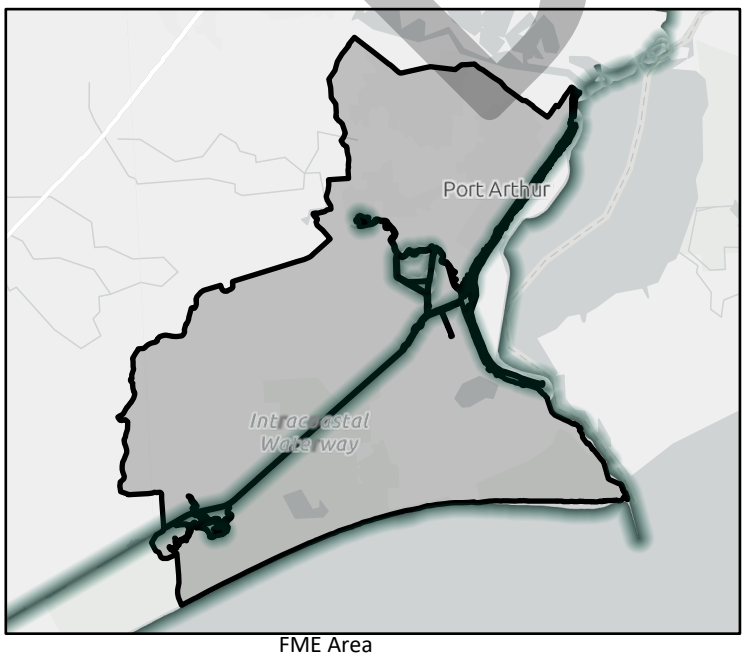
Flood risk type: Riverine? Yes Coastal? Yes Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 9,044 Roadways impacted (miles): 160

# of low water crossings: 3 # of historical road closures: 3

Estimated Cost and Funding Availability

Total Cost: $225,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Rodair Pump Station

ID#: 051000100 Sponsor: Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: Evaluate project to quantify benefits, evaluate impacts, and begin design.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 324

Goal(s):
Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
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Goal 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk: 18,000 # of structures: 5,013 # of critical facilities: 83

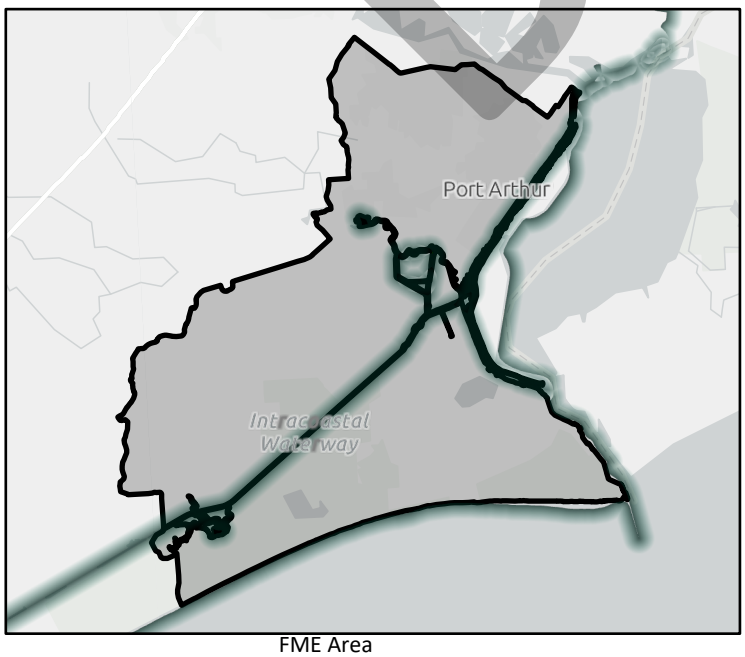
Flood risk type: Riverine? Yes Coastal? Yes Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 9,044 Roadways impacted (miles): 160

# of low water crossings: 3 # of historical road closures: 3

Estimated Cost and Funding Availability

Total Cost: $2,000,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Upgrade to Lateral B4B

ID#: 051000101 Sponsor: Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: Evaluate project to quantify benefits, evaluate impacts, and begin design. Project consists of widening those channels to increase the runoff capacity – upgrading/enlarging road crossings to reduce out of bank flooding.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 324

Goal(s):
Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
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Goal 4: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
Goal 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk: 18,000 # of structures: 5,013 # of critical facilities: 83

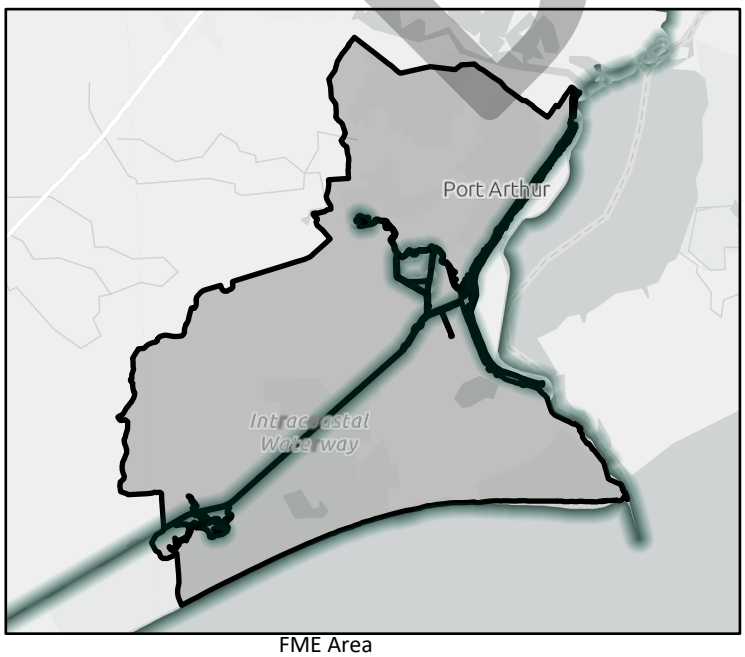
Flood risk type: Riverine? Yes Coastal? Yes Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 9,044 Roadways impacted (miles): 160

# of low water crossings: 3 # of historical road closures: 3

Estimated Cost and Funding Availability

Total Cost: $50,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Beauxart Gardens Central Ditch Improvements

ID#: 051000102 Sponsor: Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: Evaluate project to quantify benefits, evaluate impacts, and begin design. Project consists of widening those channels to increase the runoff capacity – upgrading/enlarging road crossings to reduce out of bank flooding.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 1

Goal(s):
Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
Goal 3: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.
Goal 4: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
Goal 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk: 480 # of structures: 226 # of critical facilities: 0

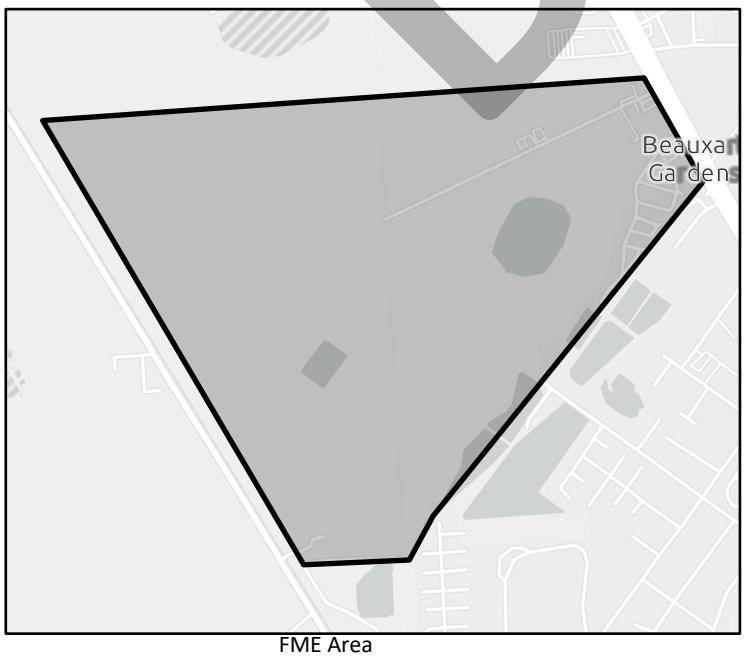
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 10 Roadways impacted (miles): 2

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $50,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Houston Upgrade Pumping Equipment

ID#: 051000103 Sponsor: Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: H&H study to size pump upgrades and improve existing level of service.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 0

Goal(s): Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
Goal 3: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.
Goal 4: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
Goal 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

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

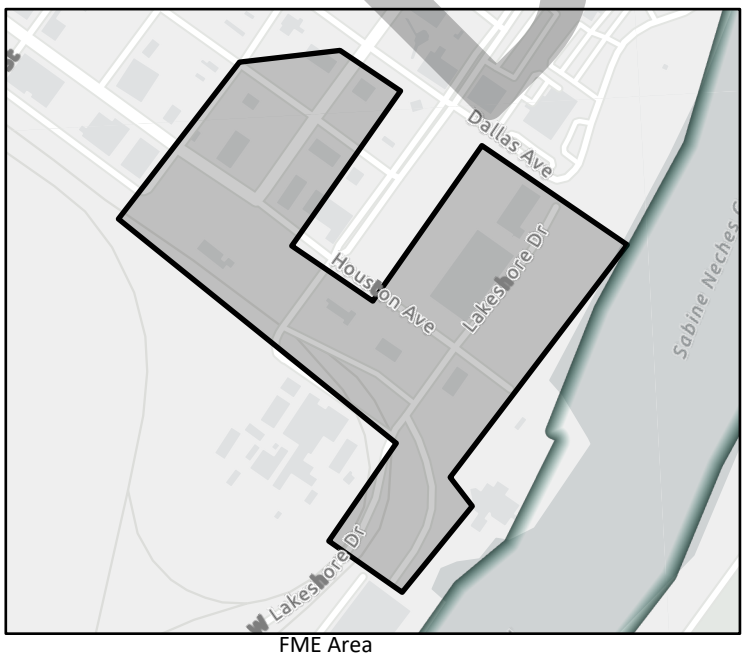
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? No

Farm/Ranch land impacted (ac.): 0 Roadways impacted (miles): 0

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $250,000 Potential federal funding availability? Yes Potential Federal Funding Sources: <Null>



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Grannis Upgrade Pumping Equipment

ID#: 051000104 Sponsor: Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: H&H study to size pump upgrades and improve existing level of service.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 0

Goal(s): Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
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Goal 4: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
Goal 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk: 95 # of structures: 1 # of critical facilities: 0

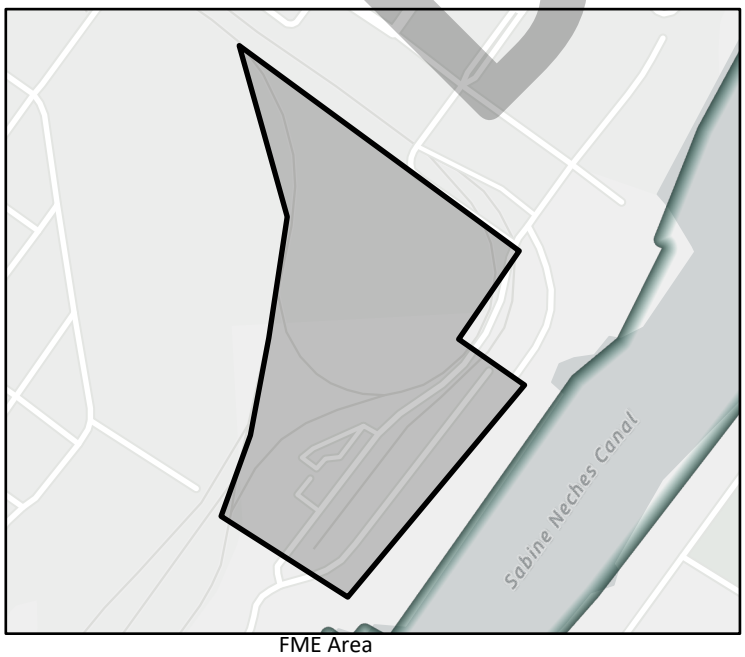
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? No

Farm/Ranch land impacted (ac.): 0 Roadways impacted (miles): 0

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: <Null>



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Foley Upgrade Pumping Equipment

ID#: 051000105 Sponsor: Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: H&H study to size pump upgrades and improve existing level of service.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 1

Goal(s): Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
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Goal 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

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

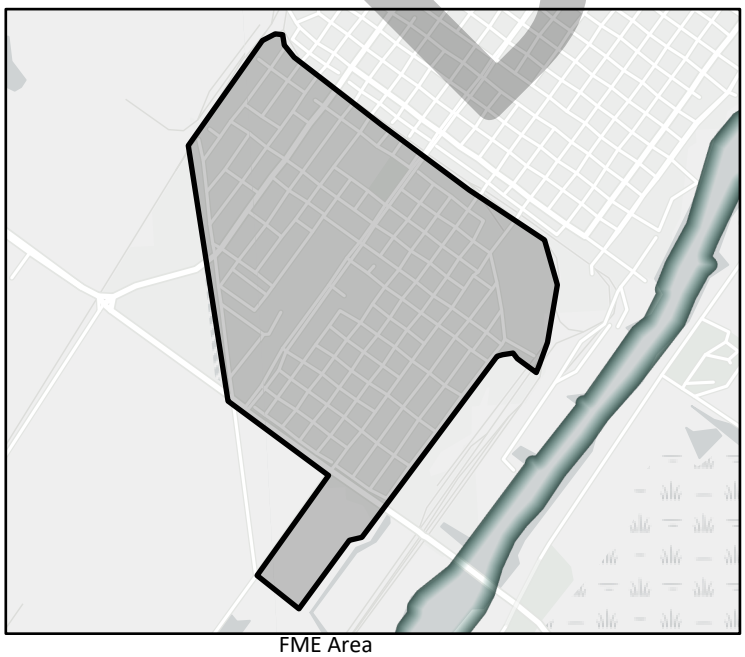
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? No

Farm/Ranch land impacted (ac.): 0 Roadways impacted (miles): 0

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: <Null>



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Lakeside Upgrade Pumping Equipment

ID#: 051000106 Sponsor: Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: H&H study to size pump upgrades and improve existing level of service.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 5

Goal(s): Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
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Goal 4: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
Goal 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk: 397 # of structures: 207 # of critical facilities: 0

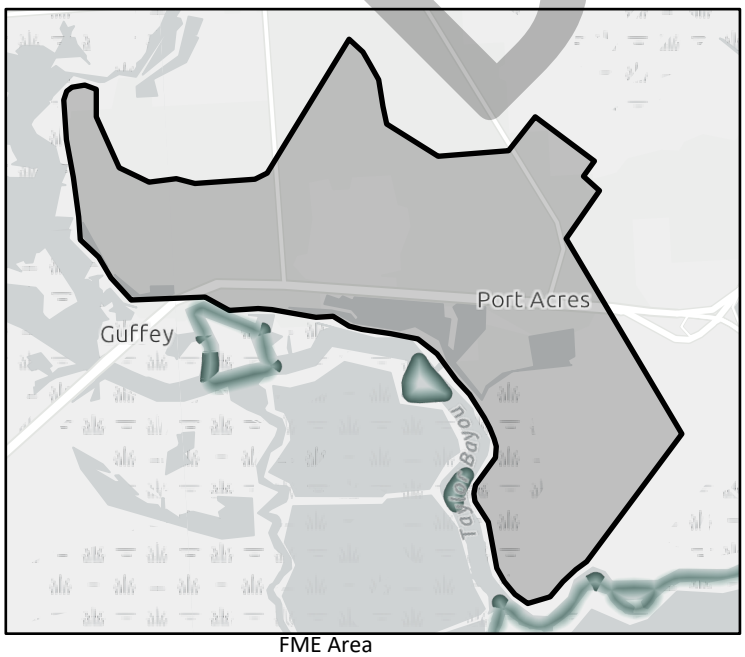
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? No

Farm/Ranch land impacted (ac.): 3 Roadways impacted (miles): 3

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: <Null>



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Rodair Upgrade Pumping Equipment

ID#: 051000107 Sponsor: Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: H&H study to size pump upgrades and improve existing level of service.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 12

Goal(s): Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
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Goal 4: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
Goal 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk: 1,418 # of structures: 511 # of critical facilities: 0

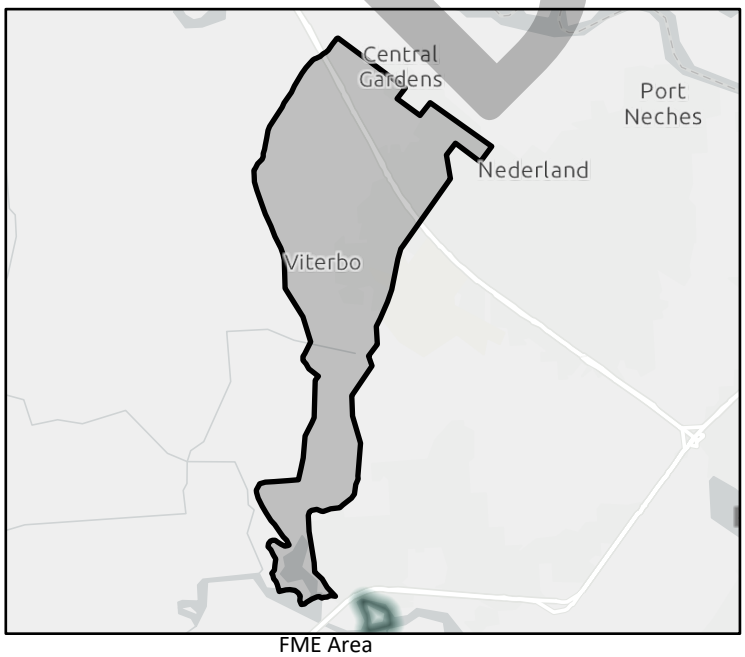
Flood risk type: Riverine? Yes Coastal? Yes Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 64 Roadways impacted (miles): 10

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: <Null>



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title 9th Avenue - Upgrade Pumping Equipment

ID# 051000108 Sponsor Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation Complies with RFPG Goals

Study Details

Study type Project Planning County Jefferson

Study description H&H study to size pump upgrades and improve existing level of service.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 6

Goal(s) Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
Goal 3: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.
Goal 4: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
Goal 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk 528 # of structures 36 # of critical facilities 0

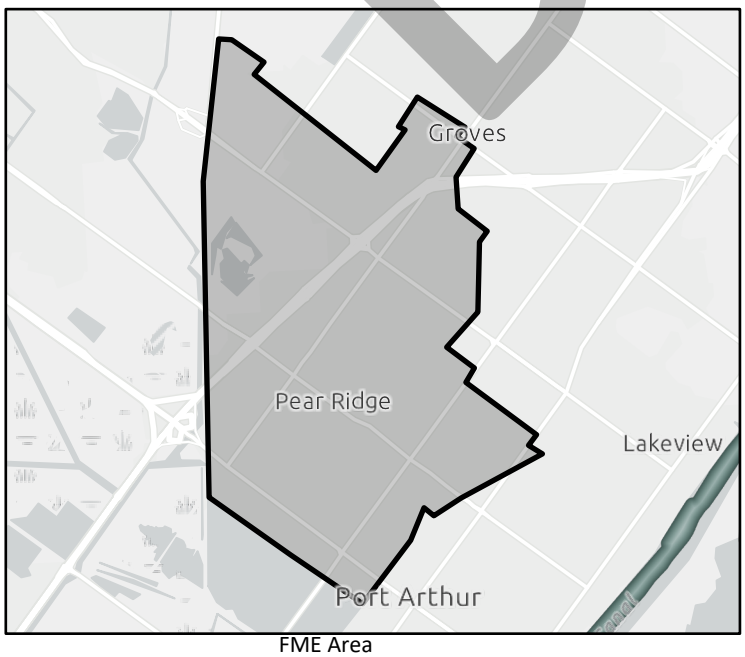
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.) 1 Roadways impacted (miles) 2

# of low water crossings 0 # of historical road closures 0

Estimated Cost and Funding Availability

Total Cost $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources <Null>



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Halbouty Add two pumps (open spots in structure)

ID#: 051000109 Sponsor: Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: H&H study to size pump upgrades and improve existing level of service.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 12

Goal(s): Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
Goal 3: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 4: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.
Goal 5: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
Goal 6: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

100-Year Flood Risk Summary

Population at risk: 1,628 # of structures: 251 # of critical facilities: 33

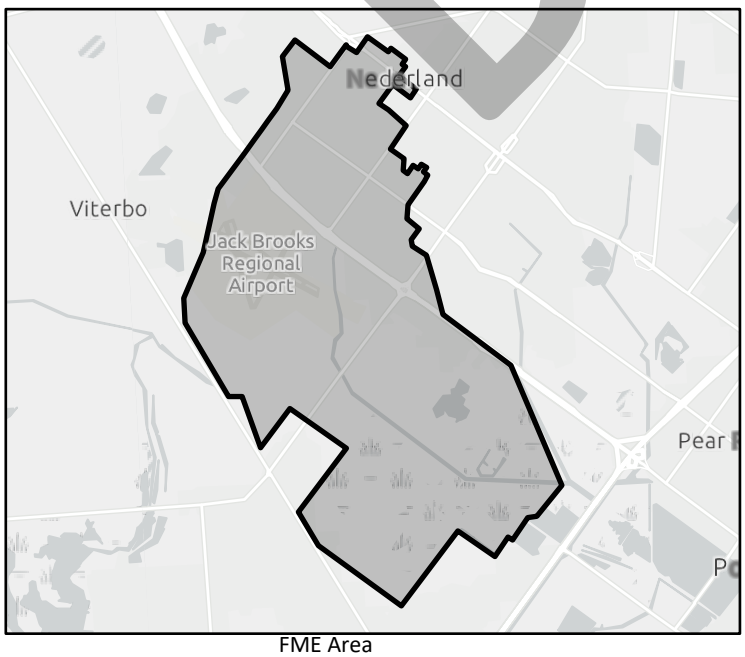
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 164 Roadways impacted (miles): 7

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: <Null>



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Rodair Upper Build new station with associated levee

ID#: 051000110 Sponsor: Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: H&H study to size pump upgrades and improve existing level of service.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 12

Goal(s): Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
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Goal 4: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
Goal 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk: 1,418 # of structures: 511 # of critical facilities: 0

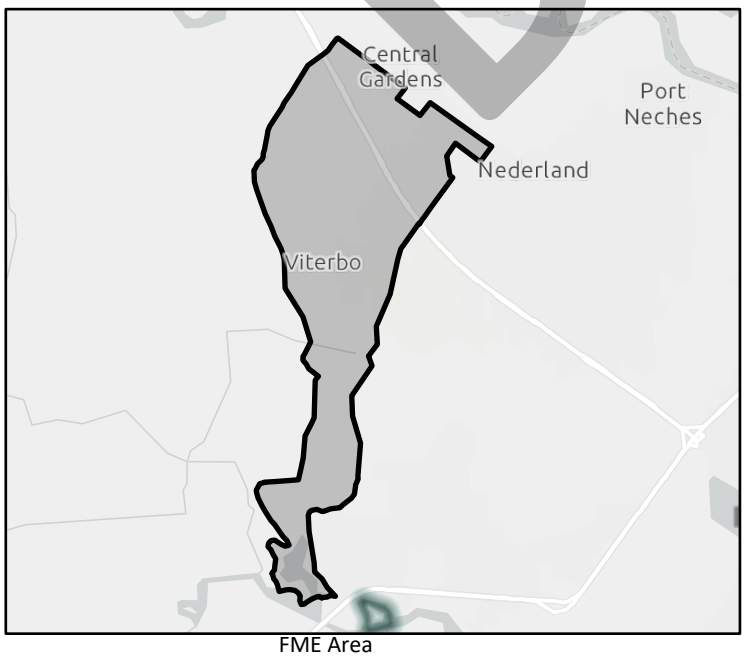
Flood risk type: Riverine? Yes Coastal? Yes Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 64 Roadways impacted (miles): 10

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: <Null>



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Main C Diversion - Build New Pump Station and Channel

ID#: 051000111 Sponsor: Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: H&H study to size pump upgrades and improve existing level of service.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 13

Goal(s): Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
Goal 3: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 4: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.
Goal 5: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
Goal 6: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

100-Year Flood Risk Summary

Population at risk: 1,628 # of structures: 251 # of critical facilities: 33

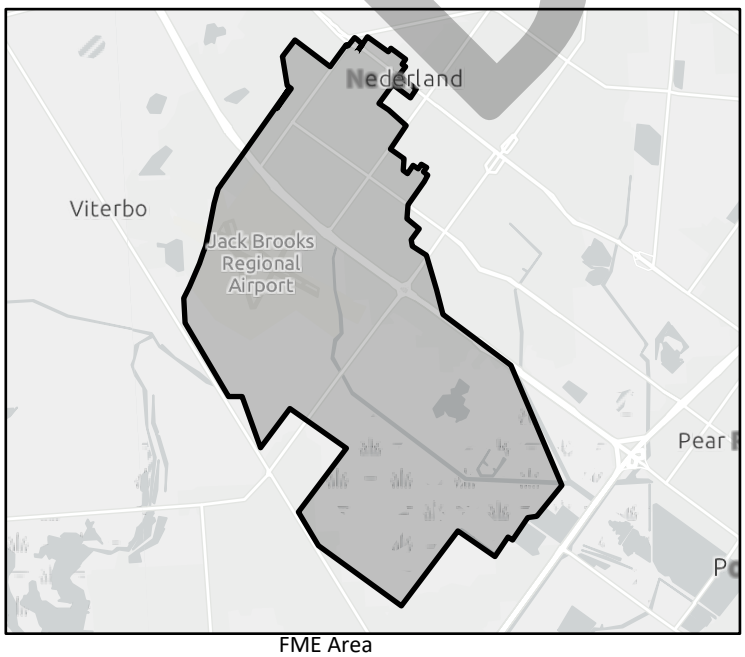
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 164 Roadways impacted (miles): 7

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Upper Johns Gulley Upgrade Drainage Channel

ID#: 051000112 Sponsor: Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: H&H study to identify alternatives for Upper Johns Gulley drainage improvements

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 8

Goal(s): Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
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Goal 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

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

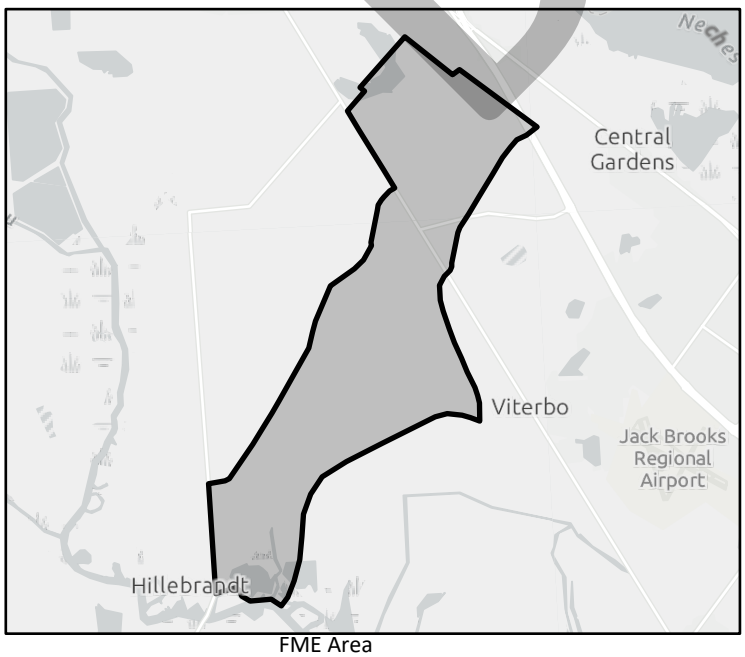
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 477 Roadways impacted (miles): 1

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Central Gardens Ditch - Upgrade Drainage Channel

ID#: 051000113 Sponsor: Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: H&H study to identify alternatives for Central Gardens Ditch

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 1

Goal(s):
Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
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Goal 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk: 151 # of structures: 80 # of critical facilities: 0

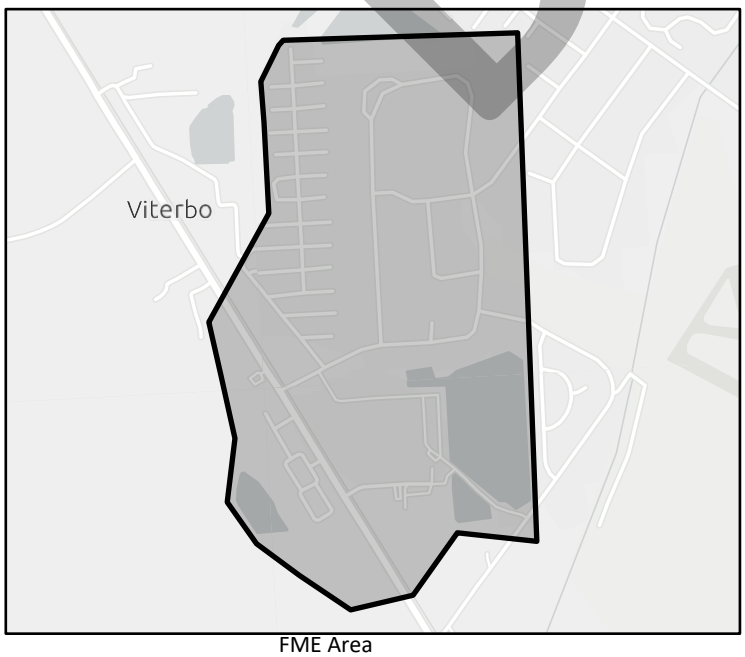
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 0 Roadways impacted (miles): 1

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Pure Oil Ditch Improvements

ID#: 051000114 Sponsor: Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: H&H study to identify alternatives for Pure Oil Ditch

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 2

Goal(s):
Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
Goal 3: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.
Goal 4: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
Goal 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk: 33 # of structures: 6 # of critical facilities: 6

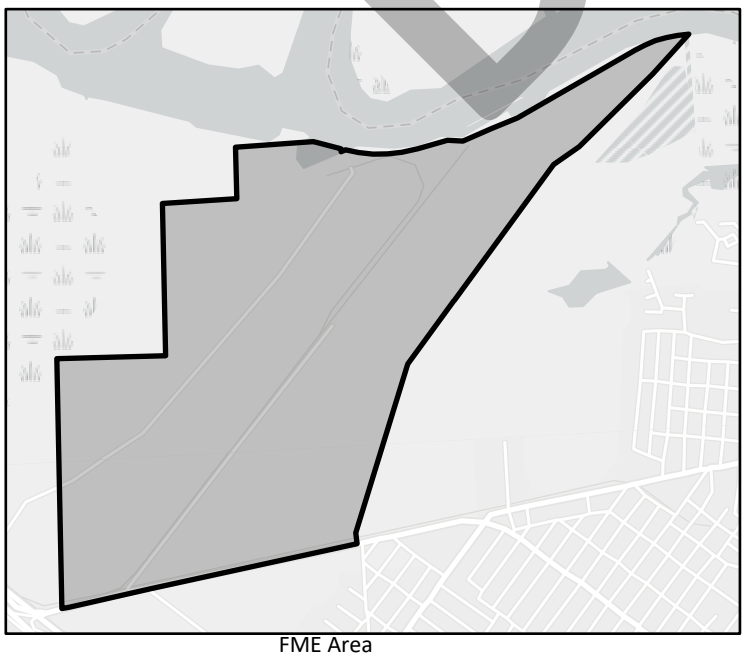
Flood risk type: Riverine? Yes Coastal? Yes Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 3 Roadways impacted (miles): 0

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Rodair Gulley Ditch Improvements

ID#: 051000115 Sponsor: Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: H&H study to identify alternatives for Rodair Gulley

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 12

Goal(s): Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
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Goal 5: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

100-Year Flood Risk Summary

Population at risk: 1,418 # of structures: 511 # of critical facilities: 0

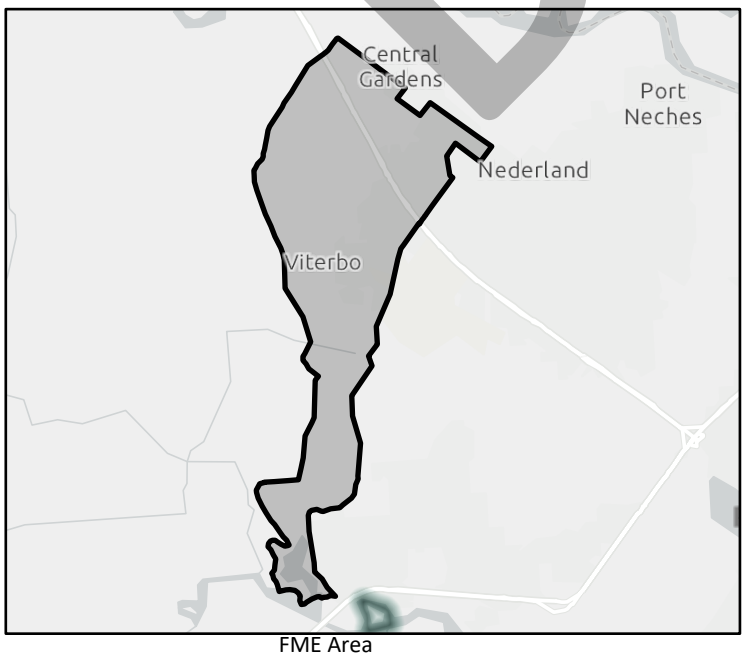
Flood risk type: Riverine? Yes Coastal? Yes Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 64 Roadways impacted (miles): 10

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Main C Diversion Channel Improvements

ID#: 051000116 Sponsor: Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: H&H study to identify alternatives for Main C Diversion Channel

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 13

Goal(s):
Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
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Goal 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk: 1,628 # of structures: 251 # of critical facilities: 33

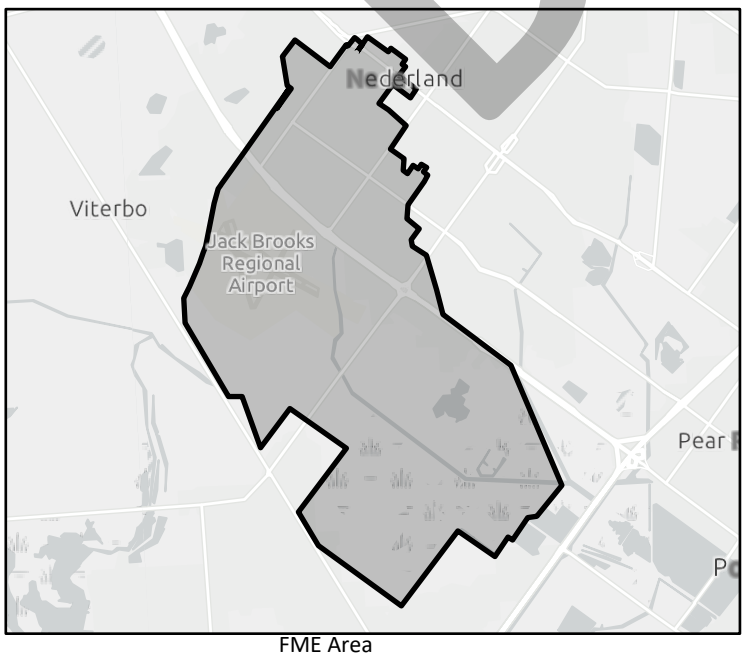
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 164 Roadways impacted (miles): 7

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Main B Channel Improvements

ID#: 051000117 Sponsor: Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: H&H study to identify alternatives for Main B Channel

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 6

Goal(s): Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
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Goal 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk: 5,960 # of structures: 876 # of critical facilities: 17

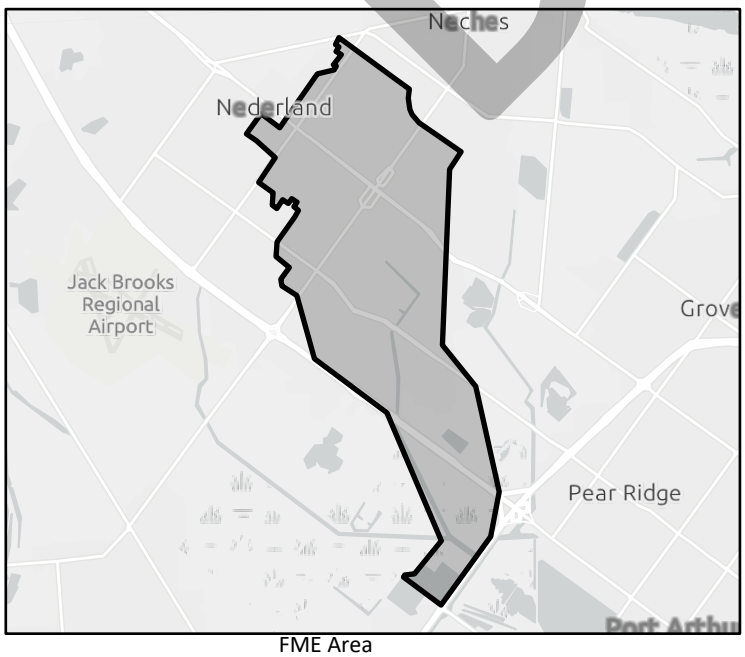
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 8 Roadways impacted (miles): 19

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Main A Channel Improvements

ID#: 051000118 Sponsor: Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: H&H study to identify alternatives for Main A Channel

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 6

Goal(s): Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
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Goal 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk: 1,173 # of structures: 147 # of critical facilities: 2

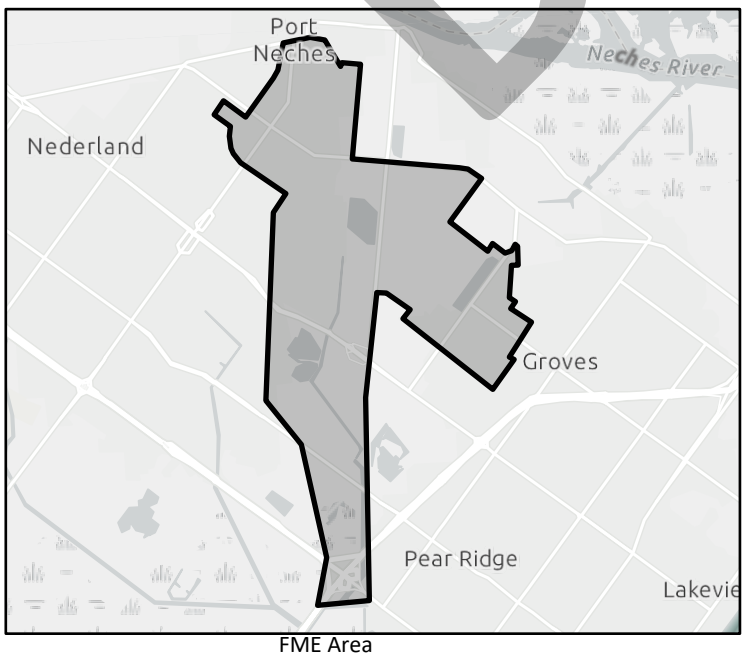
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 4 Roadways impacted (miles): 3

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Rodair Lateral 5 Detention Pond Excavation

ID# 051000119 Sponsor: Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: H&H study to identify additional detention required to expand existing level of service

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 2

Goal(s): Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
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Goal 5: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

100-Year Flood Risk Summary

Population at risk: 138 # of structures: 29 # of critical facilities: 0

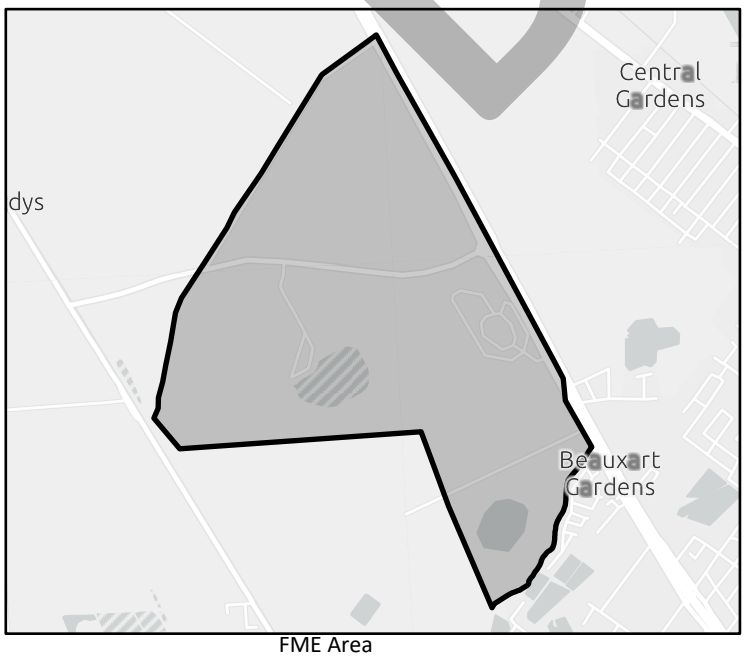
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 6 Roadways impacted (miles): 1

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Halbouty Detention Pond Excavation

ID# 051000120 Sponsor: Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: H&H study to identify additional detention required to expand existing level of service

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 12

Goal(s):
Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
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Goal 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk: 1,628 # of structures: 251 # of critical facilities: 33

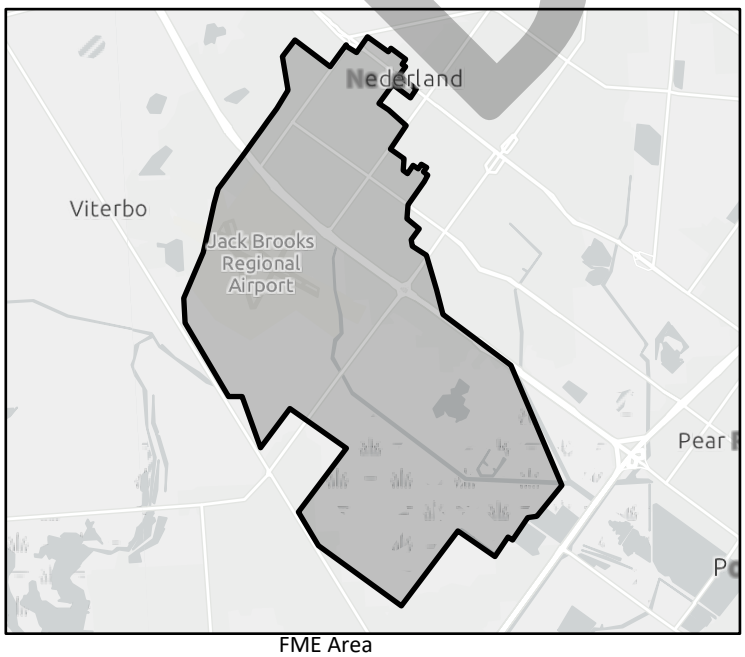
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 164 Roadways impacted (miles): 7

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title 9th Avenue Additional Detention Excavation

ID# 051000121 Sponsor Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation Complies with RFPG Goals

Study Details

Study type Project Planning County Jefferson

Study description H&H study to identify additional detention required to improve existing level of service

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 6

Goal(s) Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
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Goal 5: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

100-Year Flood Risk Summary

Population at risk 528 # of structures 36 # of critical facilities 0

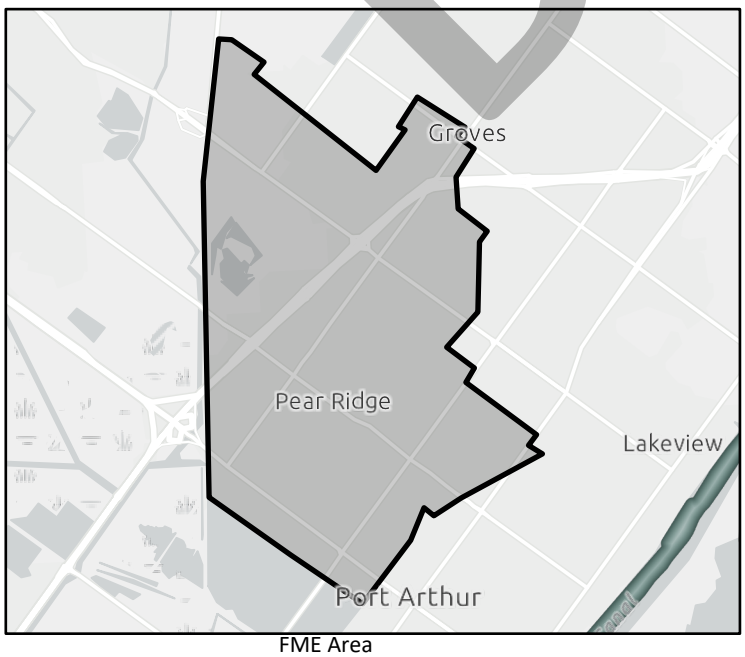
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.) 1 Roadways impacted (miles) 2

# of low water crossings 0 # of historical road closures 0

Estimated Cost and Funding Availability

Total Cost $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Tevis Diversion

ID#: 051000122 | Sponsor: Jefferson County Drainage District 6

Recommended by RFPG? Yes | Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning | County: Jefferson

Study description: H&H study to identify alternatives for a diversion to the Neches River.

FME to create new H&H model? Yes | Emergency Need? Yes | Anticipated models in near term? Yes | Drainage area (sq. mi., est.) 3

Goal(s):
Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
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Goal 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk: 1,721 | # of structures: 300 | # of critical facilities: 1

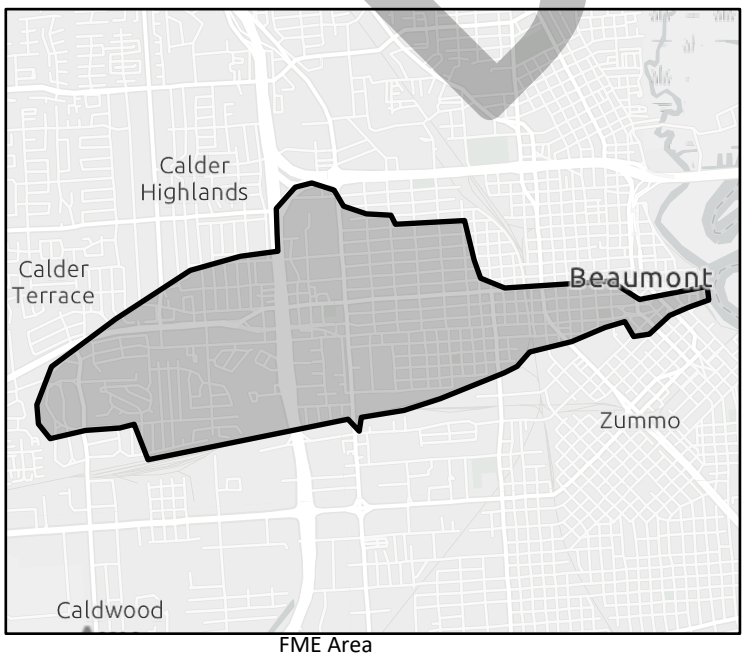
Flood risk type: Riverine? Yes | Coastal? No | Local Flooding? No | Other? Yes

Farm/Ranch land impacted (ac.): 0 | Roadways impacted (miles): 9

# of low water crossings: 0 | # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $100,000 | Potential federal funding availability? Yes | Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: JCDD7 Hurricane Flood Protection Levee Study

ID#: 051000123 Sponsor: Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: Study to identify possible upgrades to levees to help reduce the risk of flooding and to help the District review and update levees in jurisdictional area.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 112

Goal(s):
Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
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Goal 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk: 17,575 # of structures: 4,705 # of critical facilities: 82

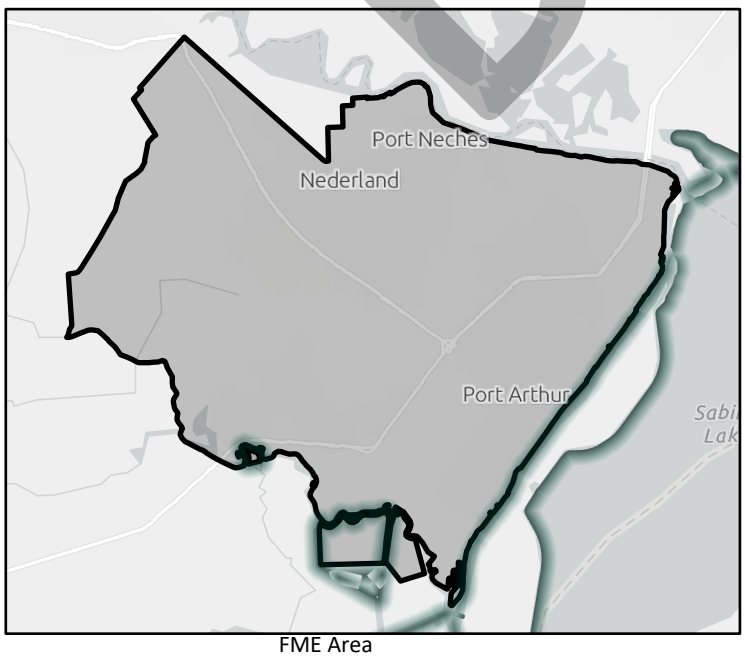
Flood risk type: Riverine? Yes Coastal? Yes Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 876 Roadways impacted (miles): 95

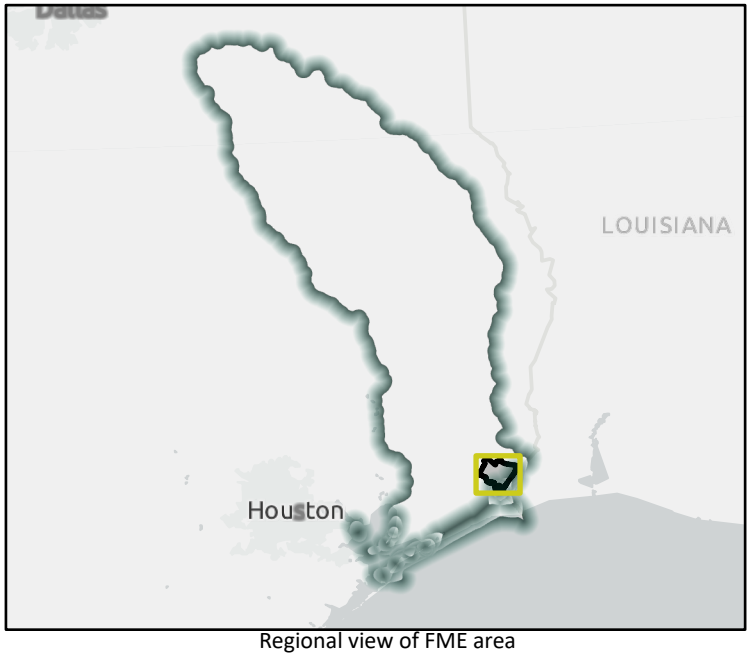
# of low water crossings: 3 # of historical road closures: 3

Estimated Cost and Funding Availability

Total Cost: $777,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Crane Bayou Channel Improvements

ID#: 051000124 Sponsor: Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: H&H study to identify alternatives for Crane Bayou Channel

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 7

Goal(s):
Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
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Goal 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk: 918 # of structures: 359 # of critical facilities: 3

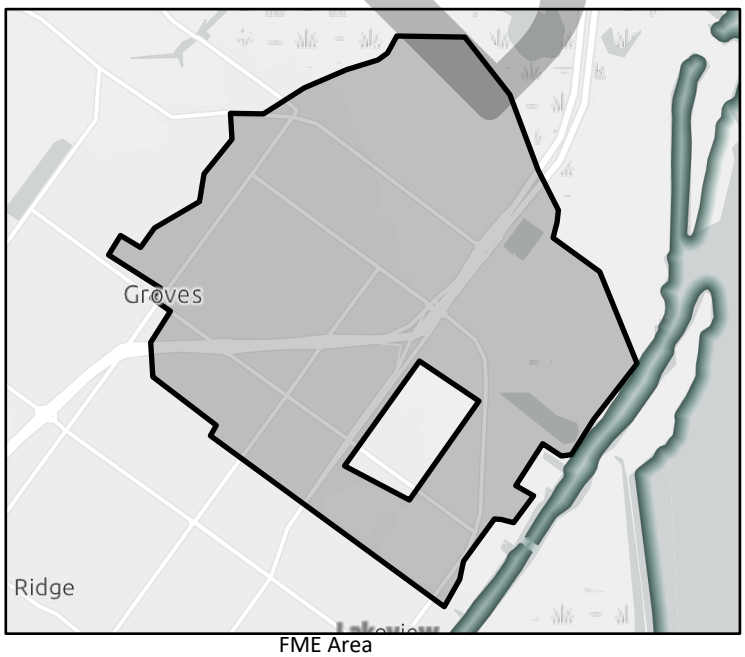
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 0 Roadways impacted (miles): 5

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Rodair Upper Additional Pump Station

ID#: 051000125 Sponsor: Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: H&H study to size pump upgrades and improve existing level of service.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 12

Goal(s): Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
Goal 4: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

100-Year Flood Risk Summary

Population at risk: 1,418 # of structures: 511 # of critical facilities: 0

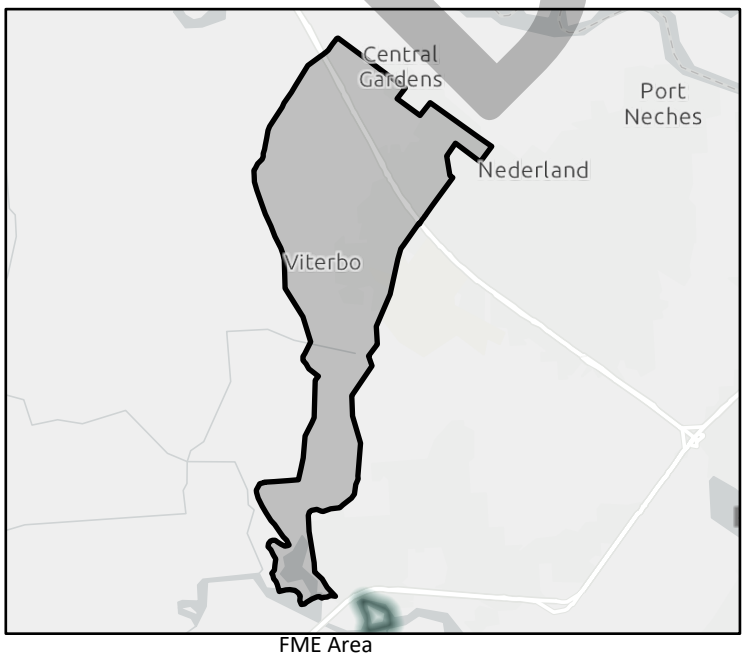
Flood risk type: Riverine? Yes Coastal? Yes Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 64 Roadways impacted (miles): 10

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: South Park Diversion

ID#: 051000126 Sponsor: Jefferson County Drainage District 6

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: H&H study to identify alternatives for a diversion to the Neches River.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 6

Goal(s): Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
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Goal 5: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

100-Year Flood Risk Summary

Population at risk: 271 # of structures: 16 # of critical facilities: 0

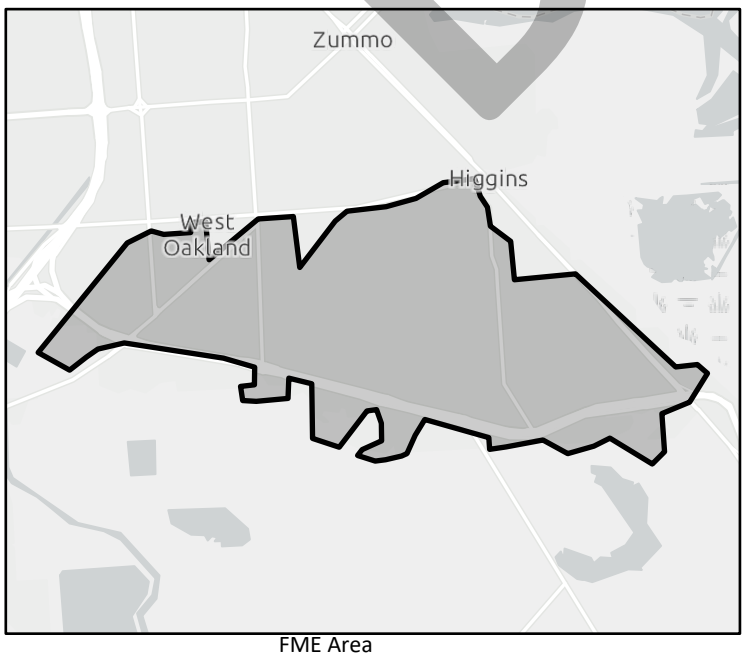
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 0 Roadways impacted (miles): 1

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Blanchette Diversion

ID#: 051000127 Sponsor: Jefferson County Drainage District 6

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: H&H study to identify alternatives for a diversion to the Neches River.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 8

Goal(s): Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
Goal 3: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.
Goal 4: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
Goal 5: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

100-Year Flood Risk Summary

Population at risk: 582 # of structures: 88 # of critical facilities: 0

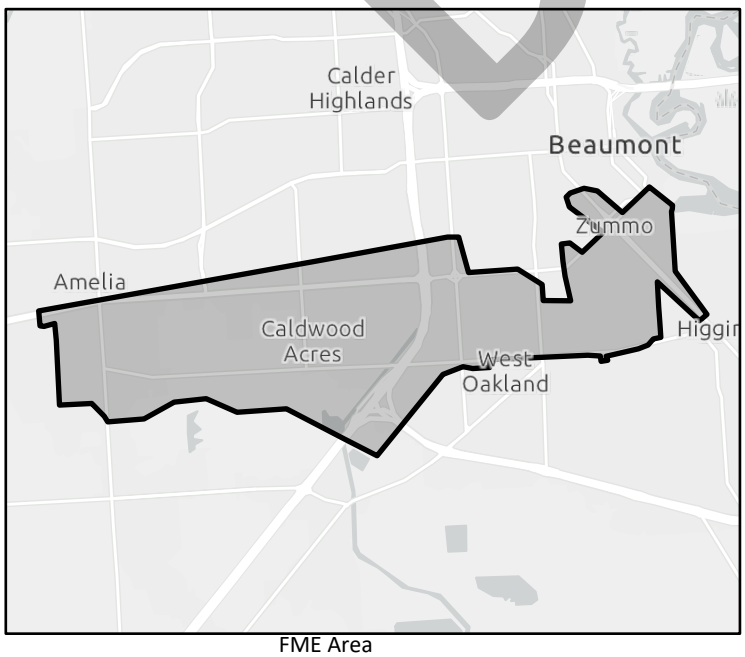
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 4 Roadways impacted (miles): 2

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Rodair Gully System Detention

ID#: 051000128 Sponsor: Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: H&H study to identify additional detention required to expand existing level of service

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 12

Goal(s): Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
Goal 3: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.
Goal 4: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
Goal 5: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

100-Year Flood Risk Summary

Population at risk: 1,418 # of structures: 511 # of critical facilities: 0

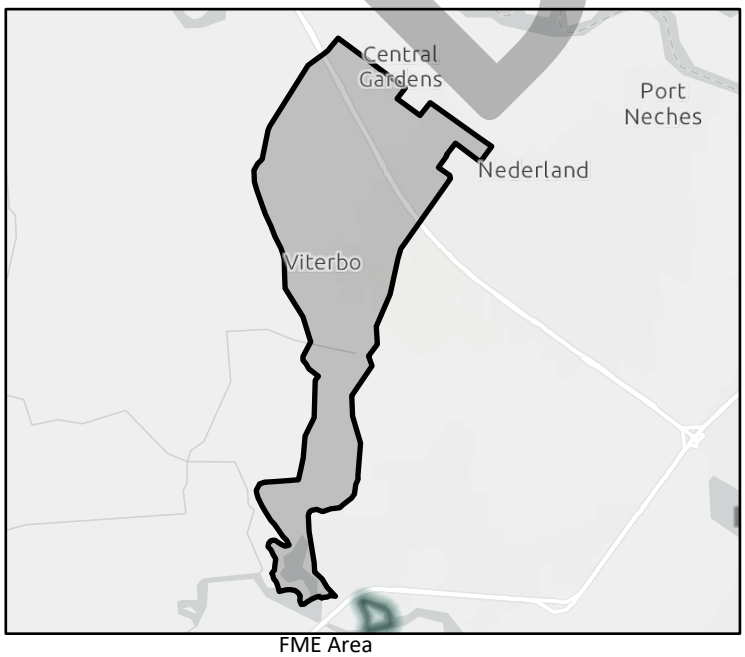
Flood risk type: Riverine? Yes Coastal? Yes Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 64 Roadways impacted (miles): 10

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: El Vista Upgrade Pumping Equipment

ID#: 051000129 Sponsor: Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: H&H study to size pump upgrades and improve existing level of service.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 2

Goal(s): Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
Goal 4: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

100-Year Flood Risk Summary

Population at risk: 1,216 # of structures: 507 # of critical facilities: 0

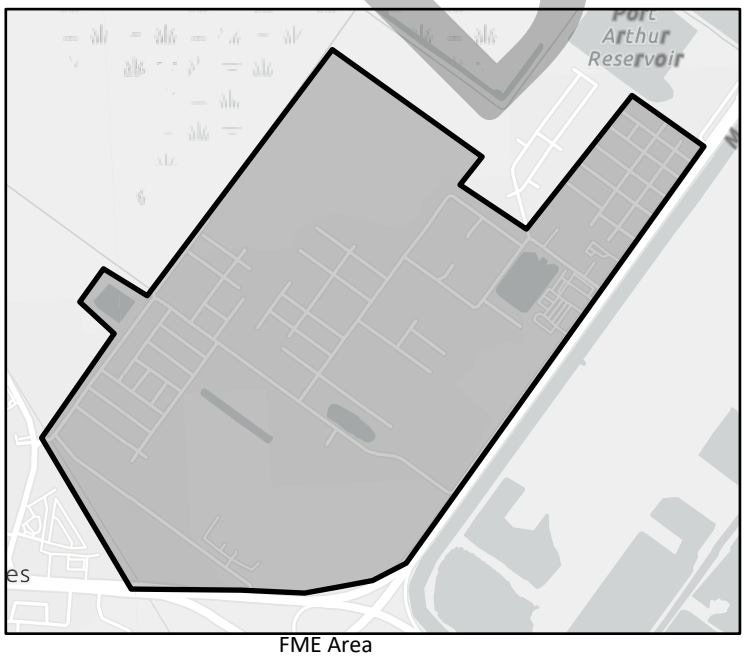
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? No

Farm/Ranch land impacted (ac.): 2 Roadways impacted (miles): 10

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: W. Port Arthur Road Upgrade Pumping Equipment

ID#: 051000130 Sponsor: Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: H&H study to size pump upgrades and improve existing level of service.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 1

Goal(s): Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
Goal 4: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

100-Year Flood Risk Summary

Population at risk: 4 # of structures: 3 # of critical facilities: 0

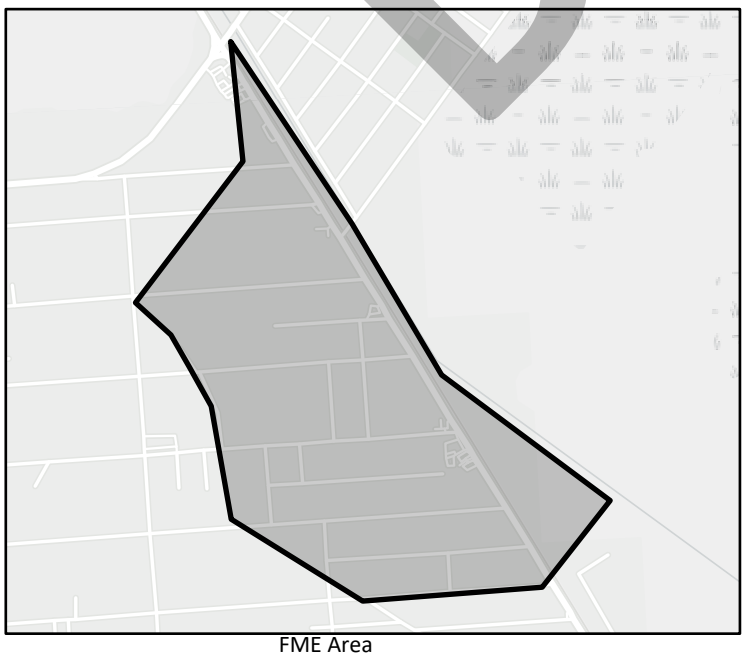
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? No

Farm/Ranch land impacted (ac.): 0 Roadways impacted (miles): 0

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Central - Upgrade Pumping Equipment and Structure

ID#: 051000131 Sponsor: Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: H&H study to size pump upgrades and improve existing level of service.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 3

Goal(s): Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
Goal 4: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

100-Year Flood Risk Summary

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

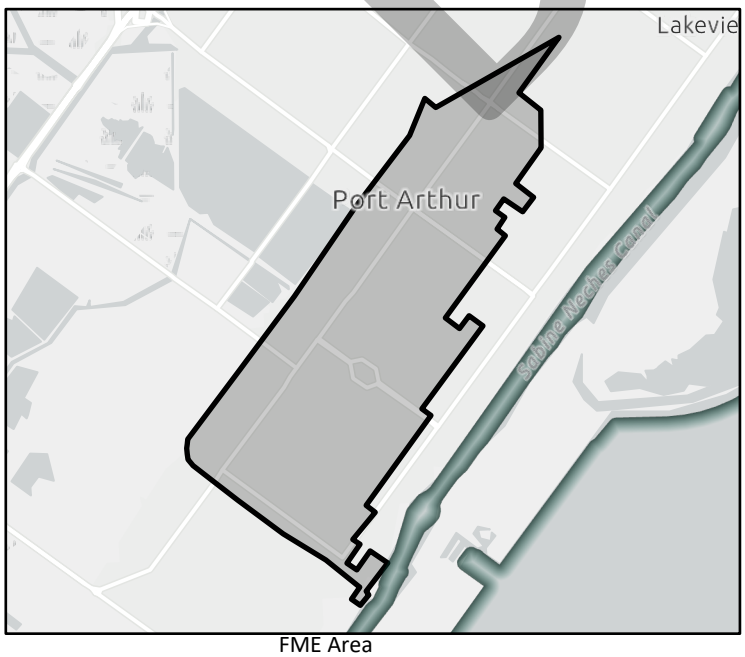
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? No

Farm/Ranch land impacted (ac.): 0 Roadways impacted (miles): 0

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5
NECHES
REGIONAL FLOOD PLANNING GROUP

Title: Star Lake Upgrade Pumping Equipment

ID#: 051000132 Sponsor: Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: H&H study to size pump upgrades and improve existing level of service.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 1

Goal(s): Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
Goal 4: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

100-Year Flood Risk Summary

Population at risk: 0 # of structures: 1 # of critical facilities: 0

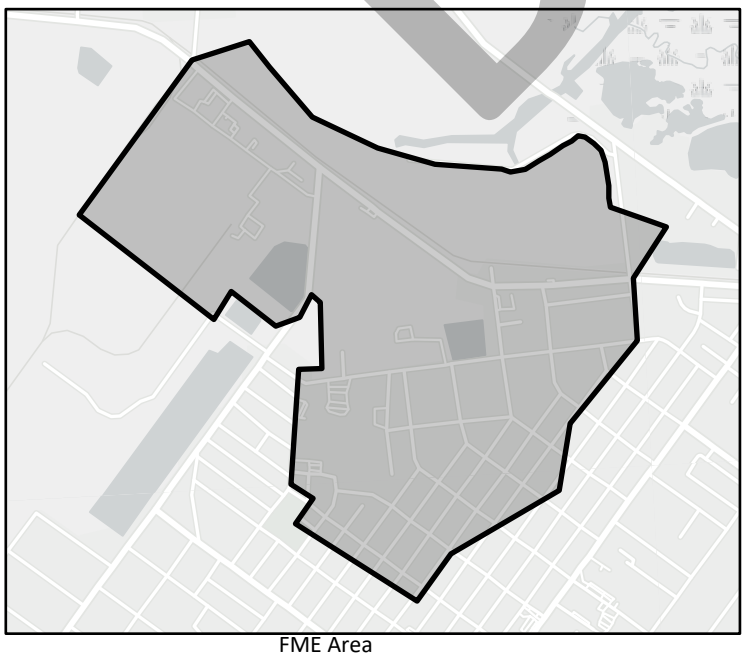
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 0 Roadways impacted (miles): 0

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Crane Bayou Additional Pumping

ID#: 051000133 Sponsor: Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: H&H study to size pump upgrades and improve existing level of service.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 7

Goal(s): Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
Goal 3: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 4: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.
Goal 5: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
Goal 6: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

100-Year Flood Risk Summary

Population at risk: 918 # of structures: 359 # of critical facilities: 3

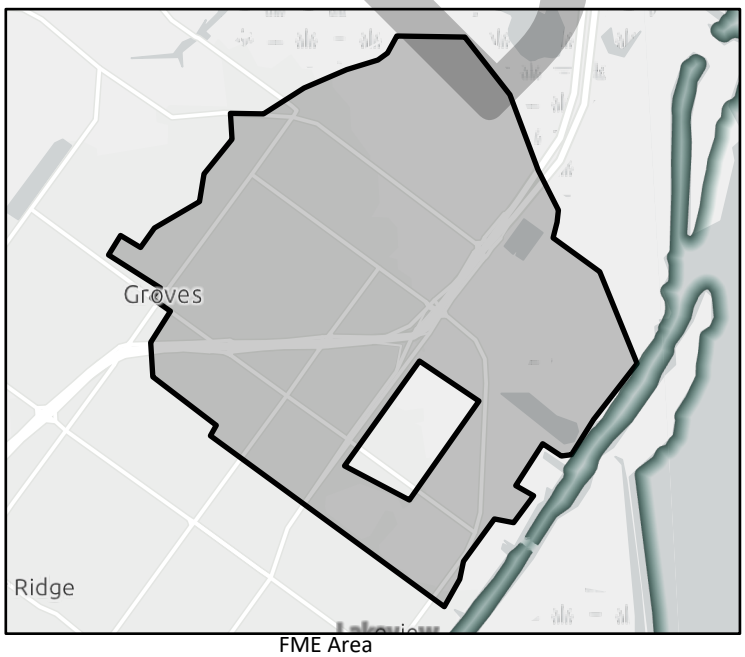
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 0 Roadways impacted (miles): 5

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Lakeview Additional Pumping

ID#: 051000134 Sponsor: Jefferson County Drainage District 7

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Jefferson

Study description: H&H study to size pump upgrades and improve existing level of service.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 2

Goal(s): Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
Goal 4: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

100-Year Flood Risk Summary

Population at risk: 479 # of structures: 216 # of critical facilities: 0

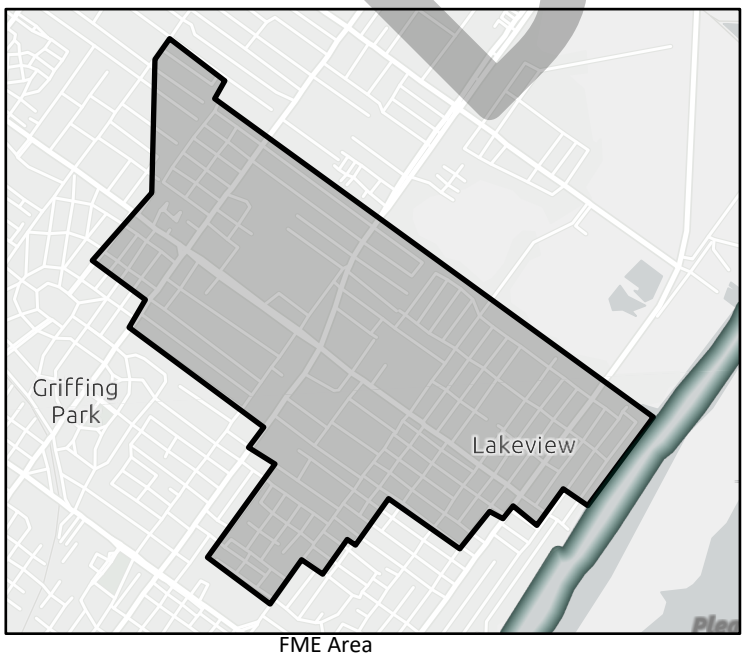
Flood risk type: Riverine? Yes Coastal? Yes Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 0 Roadways impacted (miles): 2

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area