Flood Management Strategy (FMS)

Title: City of Bellaire Roadway and Drainage Improvements

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000001 | Sponsor Entity ID: 06-01-0000002854

Sponsor Name: Bellaire (Municipality)

RFPG Recommend?: Yes | Reason for Recommendation: Alignment with RFPG goals and TWDB guidance principles.

FMS Details

FMS Type: Other

FMS Description: Perform engineering services in support of the local drainage asset management planning, to repair or reconstruct antiquated local drainage and associated road infrastructure. Including design of storm sewers, roadways, and overland storage/conveyance.

County: Harris | Associated FME's: - | Associated FMP's: -

Emergency Need?: No | If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 3.6 | Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	27,533	Structures at risk	6,106	Critical facilities at risk	65
Farm/ranch at risk (acres)	0	Impacted roadway miles	74.43		
Low water crossings	0	Total historical road closures	0		

100-Year Flood Risk Reduction

Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Public Uplift			Residential removed	

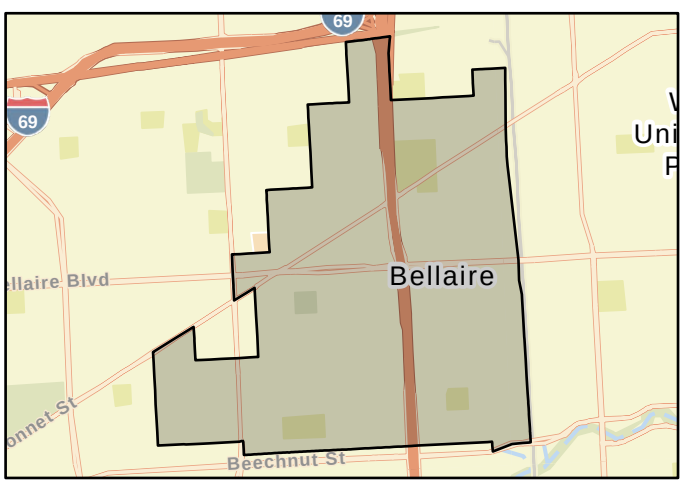
Impacts

Negative impact?: No | Negative impact description: -

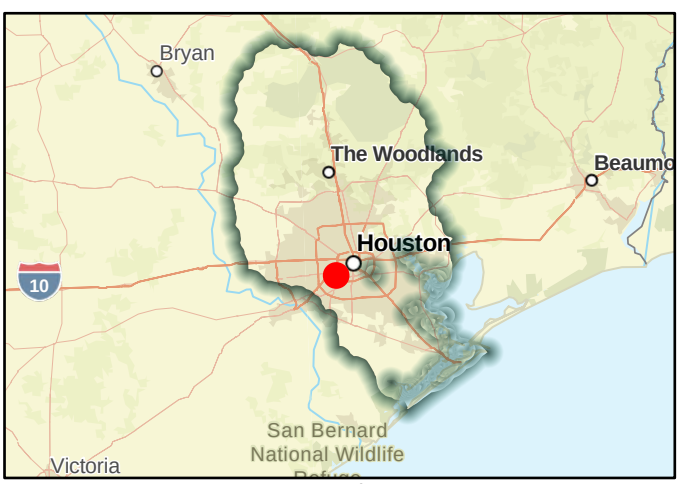
Water supply contributions?: No | Water supply description: -

Estimated Cost(s)

Total FMS cost: $3,600,000 | Non-recurring, non-capital cost (NRNC): $180,000 | Percent Nature-Based: 0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: City of Bellaire Surrounding Area Drainage Improvements

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000004 | Sponsor Entity ID: 06-01-0000002854

Sponsor Name: Bellaire (Municipality)

RFPG Recommend? Yes | Reason for Recommendation: Alignment with RFPG goals and TWDB guidance principles.

FMS Details

FMS Type: Other

FMS Description: Partner with surrounding municipalities/governmental agencies to identify drainage improvements (conveyance or detention) which could minimize extreme event sheet flow entering into Bellaire.

County: Harris | Associated FME's: - | Associated FMP's: -

Emergency Need? No | If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 3.6 | Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	27,533	Structures at risk	6,106	Critical facilities at risk	65
Farm/ranch at risk (acres)	0	Impacted roadway miles	74.43		
Low water crossings	0	Total historical road closures	0		

100-Year Flood Risk Reduction

Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Regional Coordination, Infrastructure Reliability			Residential removed	

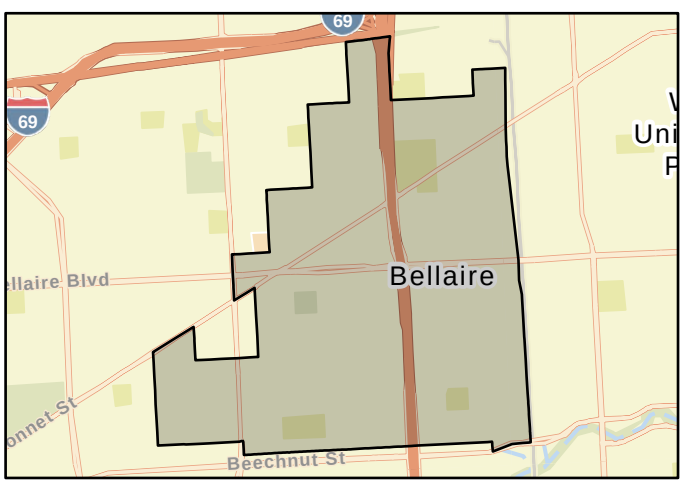
Impacts

Negative impact? No | Negative impact description: -

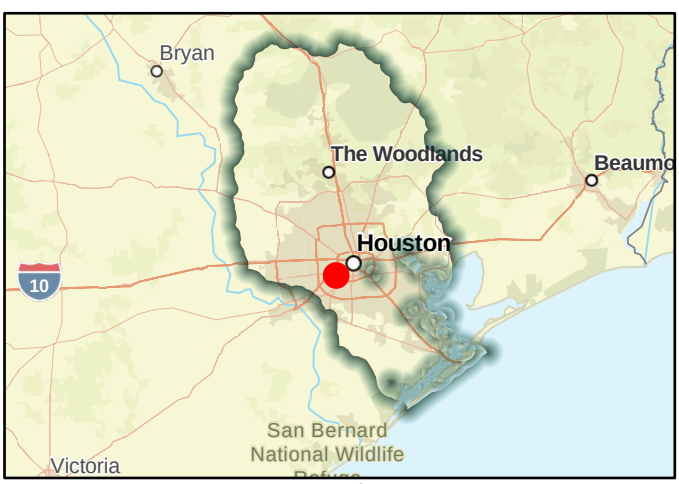
Water supply contributions? No | Water supply description: -

Estimated Cost(s)

Total FMS cost: $120,000 | Non-recurring, non-capital cost (NRNC): $6,000 | Percent Nature-Based: 0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: City of Bunker Hill Community Outreach

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000006 | Sponsor Entity ID: 06-01-0000002856

Sponsor Name: Bunker Hill Village (Municipality)

RFPG Recommend?: Yes | Reason for Recommendation: Alignment with RFPG goals and TWDB guidance principles.

FMS Details

FMS Type: Education and Outreach

FMS Description: Community Outreach (flooded street identification, marking and signage)

County: Harris | Associated FME's: - | Associated FMP's: -

Emergency Need?: No | If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 1.44 | Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	1,231	Structures at risk	441	Critical facilities at risk	1
Farm/ranch at risk (acres)	0	Impacted roadway miles	10.68		
Low water crossings	0	Total historical road closures	0		

100-Year Flood Risk Reduction

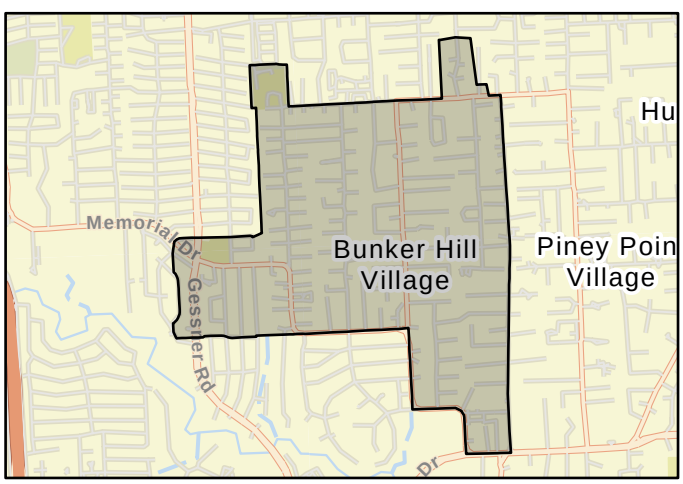
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Public Education			Residential removed	

Impacts

Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$121,000	Non-recurring, non-capital cost (NRNC)	$6,100	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: City of Bunker Hill Dam/Levee Maintenance and Monitoring Plan

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000007 | Sponsor Entity ID: 06-01-0000002856

Sponsor Name: Bunker Hill Village (Municipality)

RFPG Recommend?: Yes | Reason for Recommendation: Alignment with RFPG goals and TWDB guidance principles.

FMS Details

FMS Type: Other

FMS Description: Minimize the risk of dam/levee failure and related damage to existing and proposed structures by monitoring the maintenance and inspection schedules.

County: Harris | Associated FME's: - | Associated FMP's: -

Emergency Need?: No | If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 1.44 | Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	1,231	Structures at risk	441	Critical facilities at risk	1
Farm/ranch at risk (acres)	0	Impacted roadway miles	10.68		
Low water crossings	0	Total historical road closures	0		

100-Year Flood Risk Reduction

Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Public Safety, Infrastructure Reliability			Residential removed	

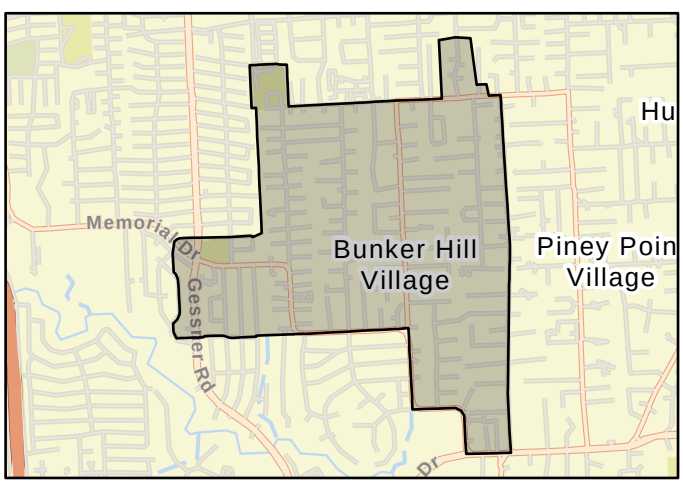
Impacts

Negative impact?: No | Negative impact description: -

Water supply contributions?: No | Water supply description: -

Estimated Cost(s)

Total FMS cost: $606,000 | Non-recurring, non-capital cost (NRNC): $30,300 | Percent Nature-Based: 0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: Harris County Hazard Mitigation Action AW-3

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000008 | Sponsor Entity ID: 00-01-0000000020

Sponsor Name: Harris County (County)

RFPG Recommend?: Yes | Reason for Recommendation: Alignment with RFPG goals and TWDB guidance principles.

FMS Details

FMS Type: Education and Outreach

FMS Description: Utilizing the existing public outreach capability to develop, deploy, and disseminate targeted outreach projects promoting risk communication, mitigation and resilience to all the hazards of concern.

County: Harris | Associated FME's: - | Associated FMP's: -

Emergency Need?: No | If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 1,777.29 | Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	2,686,031	Structures at risk	565,507	Critical facilities at risk	6,219
Farm/ranch at risk (acres)	110,208.57	Impacted roadway miles	12,061.71		
Low water crossings	531	Total historical road closures	531		

100-Year Flood Risk Reduction

Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Public Education			Residential removed	

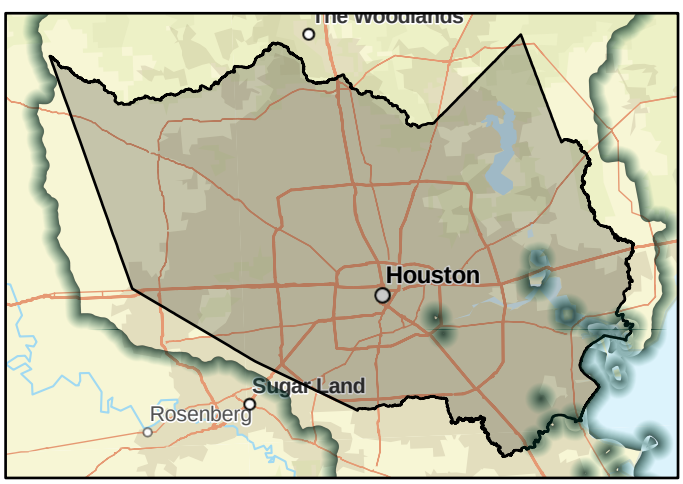
Impacts

Negative impact?: No | Negative impact description: -

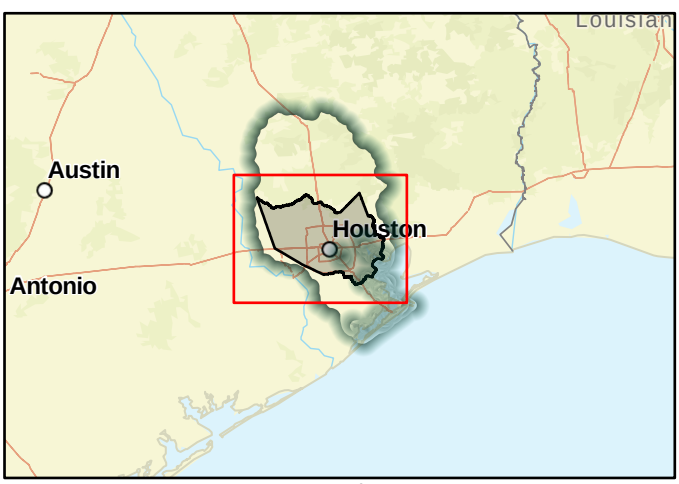
Water supply contributions?: No | Water supply description: -

Estimated Cost(s)

Total FMS cost: $121,000 | Non-recurring, non-capital cost (NRNC): $6,100 | Percent Nature-Based: 0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	Harris County Hazard Mitigation Action AW-4
FMS ID	06-53-0000000009
Sponsor Entity ID	00-01-0000000020
Sponsor Name	Harris County (County)
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Flood Measurement and Warning
FMS Description	Strive to capture time-sensitive data such as high-water marks, extent and location of hazard, and loss information to support future updates to risk assessments as well as other plans and programs that utilize hazard extent data.

County	Harris	Associated FME's	-	Associated FMP's	-
Emergency Need?	No	If yes, describe Emergency Need			
Drainage area (Est. sq-mi)	1,777.29	Assumptions/Relevant Context	N/A		

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	2,686,031	Structures at risk	565,507	Critical facilities at risk	6,219
Farm/ranch at risk (acres)	110,208.57	Impacted roadway miles	12,061.71		
Low water crossings	531	Total historical road closures	531		

100-Year Flood Risk Reduction

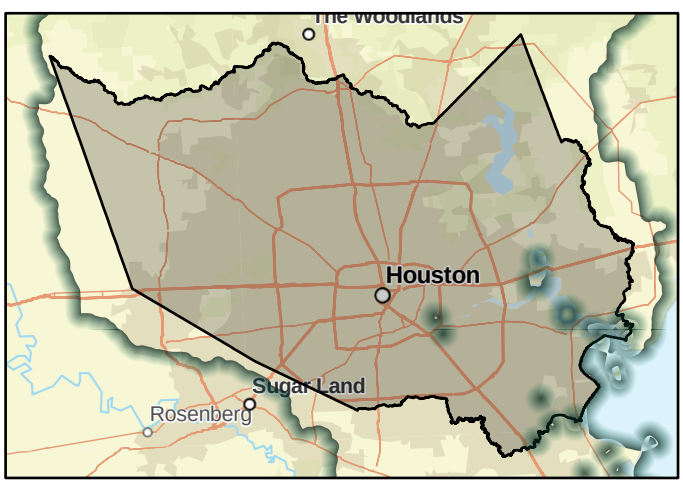
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Improved Emergency Planning			Residential removed	

Impacts

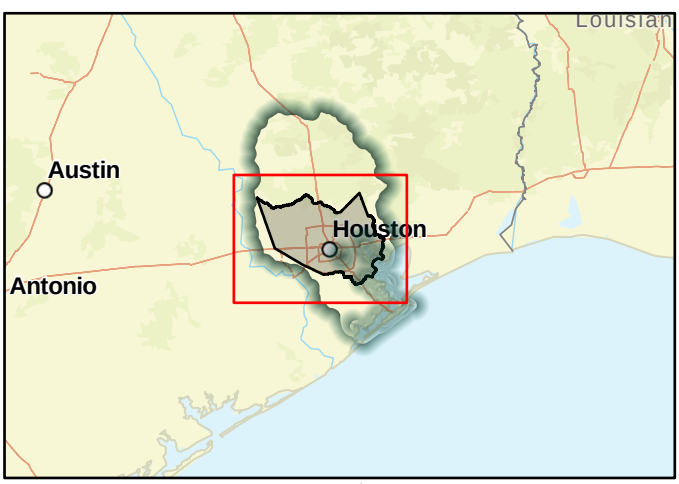
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$363,000	Non-recurring, non-capital cost (NRNC)	$18,200	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: Harris County Hazard Mitigation Action AW-5

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000010 | Sponsor Entity ID: 00-01-0000000020

Sponsor Name: Harris County (County)

RFPG Recommend?: Yes | Reason for Recommendation: Alignment with RFPG goals and TWDB guidance principles.

FMS Details

FMS Type: Flood Measurement and Warning

FMS Description: Continue to develop, improve, and implement an enhanced mass public warning and alert system within the Harris County Joint Information Center to provide warning capability throughout Harris County to support the emergency management of all hazards.

County: Harris | Associated FME's: - | Associated FMP's: -

Emergency Need?: No | If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 1,777.29 | Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	2,686,031	Structures at risk	565,507	Critical facilities at risk	6,219
Farm/ranch at risk (acres)	110,208.57	Impacted roadway miles	12,061.71		
Low water crossings	531	Total historical road closures	531		

100-Year Flood Risk Reduction

Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Public Education			Residential removed	

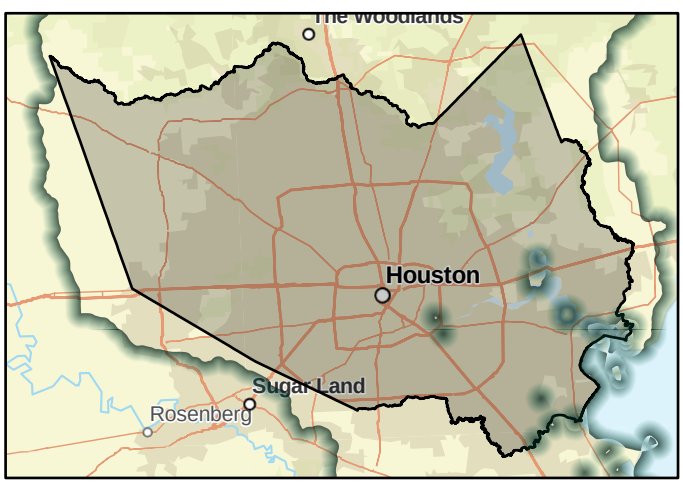
Impacts

Negative impact?: No | Negative impact description: -

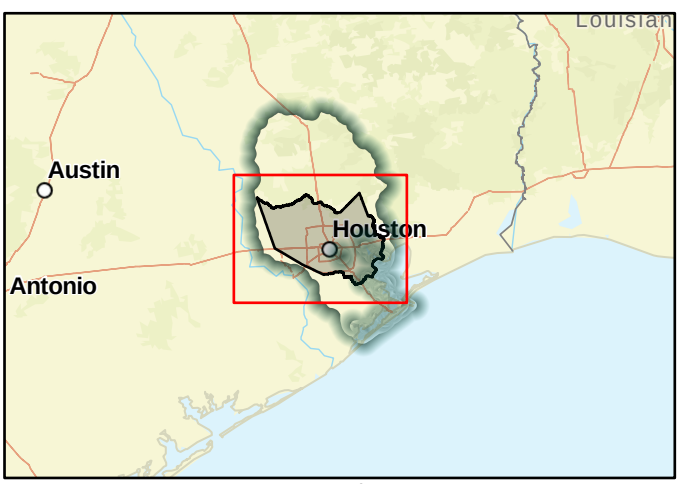
Water supply contributions?: No | Water supply description: -

Estimated Cost(s)

Total FMS cost: $121,000 | Non-recurring, non-capital cost (NRNC): $6,100 | Percent Nature-Based: 0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	Harris County Hazard Mitigation Action AW-6
FMS ID	06-53-0000000011
Sponsor Entity ID	00-01-0000000020
Sponsor Name	Harris County (County)
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Flood Measurement and Warning
FMS Description	Utilize viable and relevant information, data and tools (Hazus models) developed as part of the update to the risk assessment of this plan update to support training and exercise of the County's preparedness, response and recovery programs.

County	Harris	Associated FME's	-	Associated FMP's	-
Emergency Need?	No	If yes, describe Emergency Need			
Drainage area (Est. sq-mi)	1,777.29	Assumptions/Relevant Context	N/A		

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	2,686,031	Structures at risk	565,507	Critical facilities at risk	6,219
Farm/ranch at risk (acres)	110,208.57	Impacted roadway miles	12,061.71		
Low water crossings	531	Total historical road closures	531		

100-Year Flood Risk Reduction

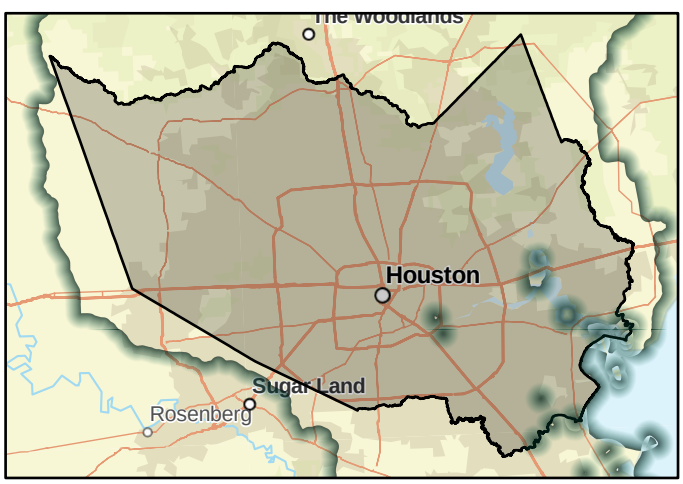
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Emergency Preparedness			Residential removed	

Impacts

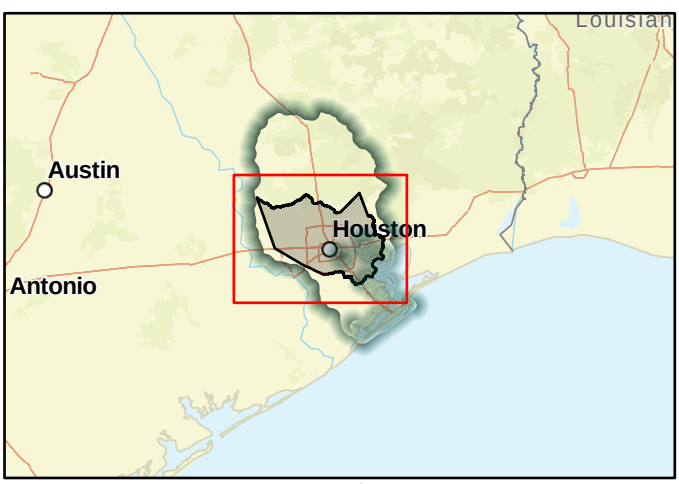
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$606,000	Non-recurring, non-capital cost (NRNC)	$30,300	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: City of Alvin CRS Application

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000012 | Sponsor Entity ID: 00-01-0000003020

Sponsor Name: Alvin (Municipality)

RFPG Recommend? Yes | Reason for Recommendation: Alignment with RFPG goals and TWDB guidance principles.

FMS Details

FMS Type: Other

FMS Description: Apply and once accepted maintain and/or improve CRS status. Cost is time, data and preparation of a CRS application. Benefit, if approved homeowner with flood insurance could receive a discount based on the City's CRS score.

County: Brazoria | Associated FME's: - | Associated FMP's: -

Emergency Need? No | If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 15.79 | Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	3,369	Structures at risk	1,884	Critical facilities at risk	6
Farm/ranch at risk (acres)	1,525.7	Impacted roadway miles	37.13		
Low water crossings	3	Total historical road closures	3		

100-Year Flood Risk Reduction

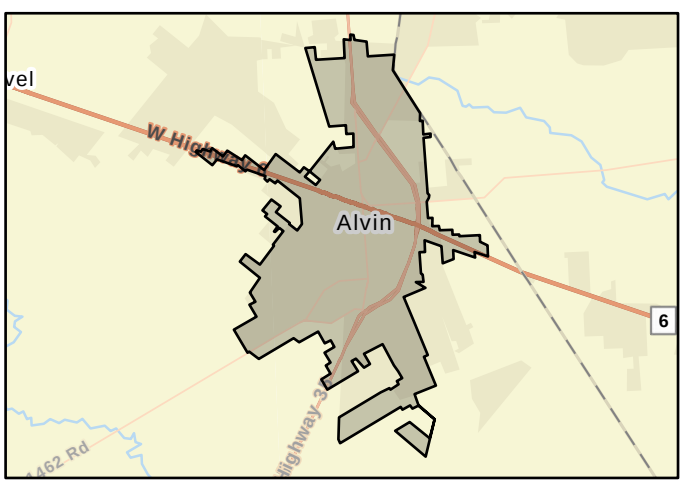
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Lower homeowner insurance costs			Residential removed	

Impacts

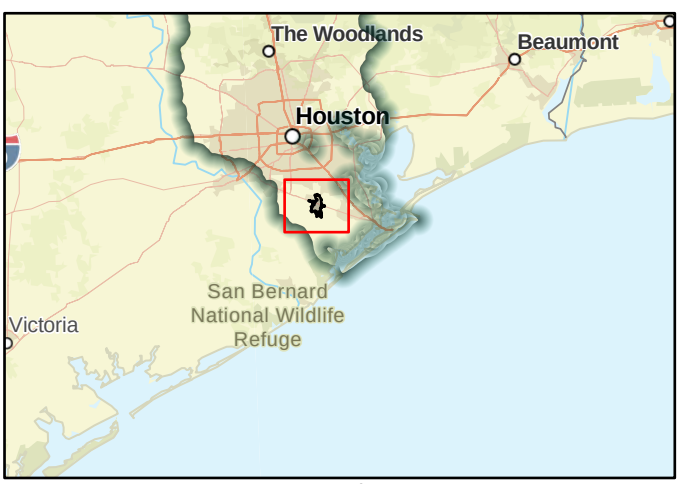
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$30,000	Non-recurring, non-capital cost (NRNC)	$1,500	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	Brazoria County Increased Cost of Compliance Education
FMS ID	06-53-0000000013
Sponsor Entity ID	00-01-0000000003
Sponsor Name	Brazoria County (County)
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Education and Outreach
FMS Description	Implement campaign on public education of ICC (Increased Cost of Compliance) coverage.
County	Brazoria
Associated FME's	-
Associated FMP's	-
Emergency Need?	No
If yes, describe Emergency Need	
Drainage area (Est. sq-mi)	1,485.99
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	75,148	Structures at risk	33,589	Critical facilities at risk	225
Farm/ranch at risk (acres)	64,045.24	Impacted roadway miles	591.71		
Low water crossings	44	Total historical road closures	44		

100-Year Flood Risk Reduction

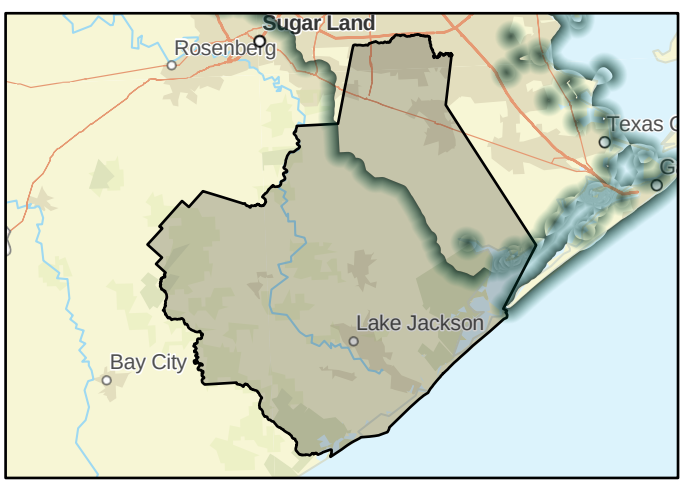
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Public Education			Residential removed	

Impacts

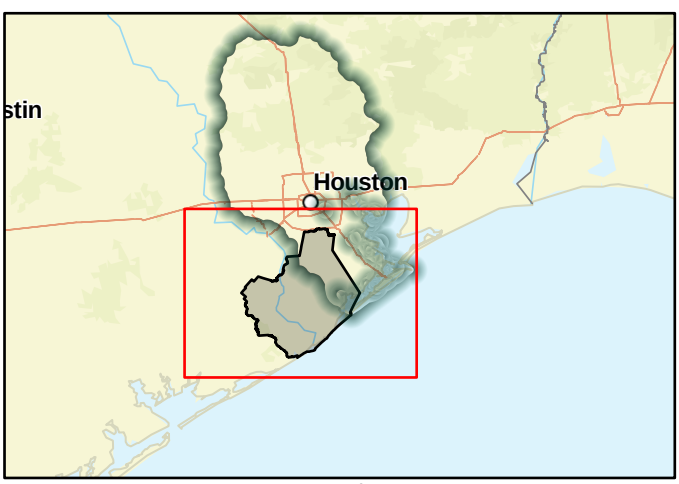
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$24,000	Non-recurring, non-capital cost (NRNC)	$1,200	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	City of Galveston NFIP CRS Rating
FMS ID	06-53-0000000014
Sponsor Entity ID	06-01-0000002809
Sponsor Name	Galveston (Municipality)
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Other
FMS Description	Maintain membership of the NFIP's CRS
County	Galveston
Associated FME's	-
Associated FMP's	-
Emergency Need?	No
If yes, describe Emergency Need	
Drainage area (Est. sq-mi)	53.58
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	65,631	Structures at risk	23,910	Critical facilities at risk	207
Farm/ranch at risk (acres)	1,080.61	Impacted roadway miles	411.36		
Low water crossings	0	Total historical road closures	0		

100-Year Flood Risk Reduction

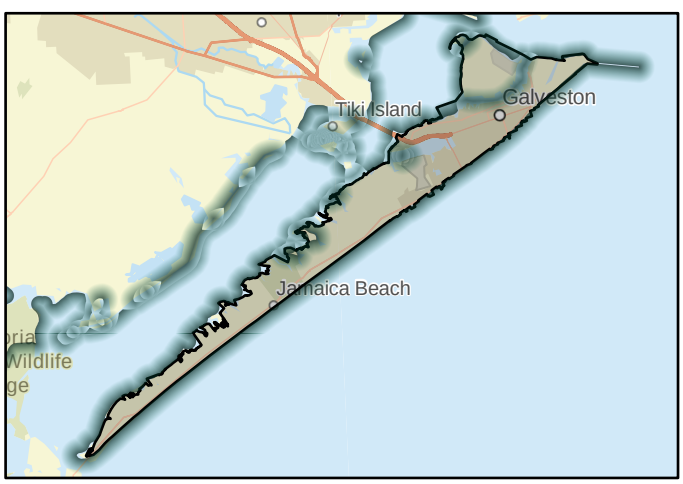
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Lower homeowner insurance costs			Residential removed	

Impacts

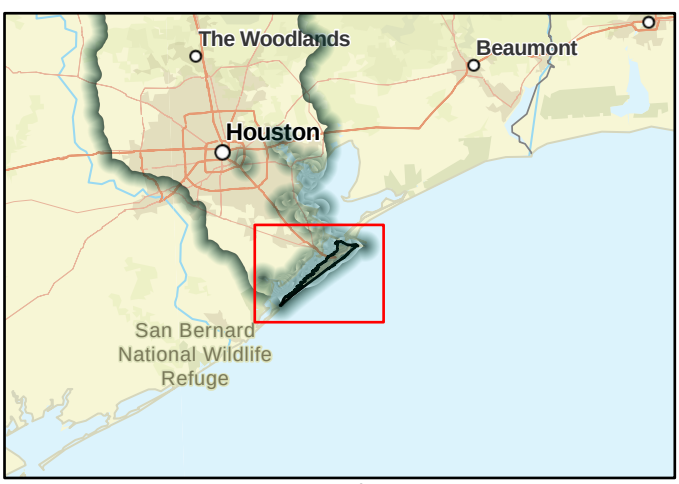
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$12,000	Non-recurring, non-capital cost (NRNC)	$600	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	Develop Applicable Plans and Studies to Address Hazard Mitigation in Galveston County
FMS ID	06-53-0000000015
Sponsor Entity ID	00-01-0000000006
Sponsor Name	Galveston County (County)
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Regulatory and Guidance
FMS Description	Review planning needs annually to include, but not be limited to, CEMP, debris management, stormwater management, master plan, drainage, drought, GIS mapping, complete study to locate areas prone to expansive soils and land subsidence, etc.

County	Galveston	Associated FME's	-
Associated FMP's	-	Emergency Need?	No
If yes, describe Emergency Need		Drainage area (Est. sq-mi)	667.28
Assumptions/Relevant Context	N/A		

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	155,271	Structures at risk	72,494	Critical facilities at risk	580
Farm/ranch at risk (acres)	31,053.54	Impacted roadway miles	1,424.43		
Low water crossings	73	Total historical road closures	73		

100-Year Flood Risk Reduction

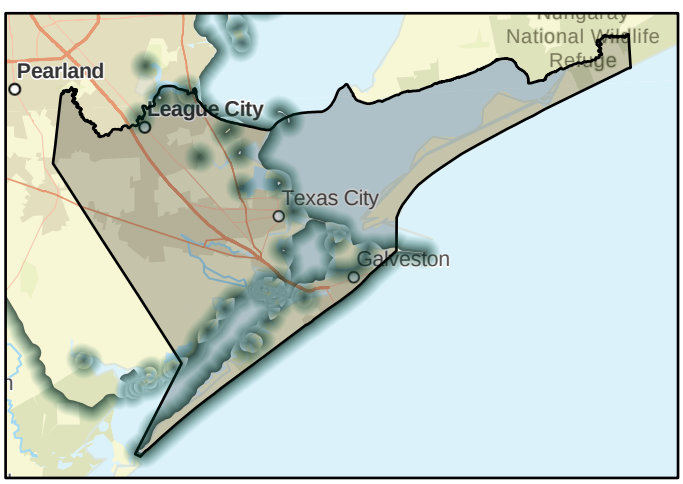
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Improved Planning, Regional Coordination			Residential removed	

Impacts

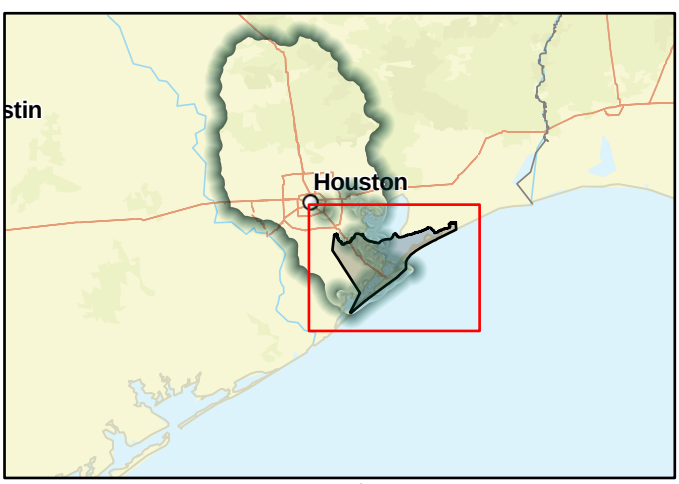
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$121,000	Non-recurring, non-capital cost (NRNC)	$6,100	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	Waller County Elevation Certificate Requirement
FMS ID	06-53-0000000016
Sponsor Entity ID	00-01-0000000024
Sponsor Name	
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Regulatory and Guidance
FMS Description	Require and maintain FEMA elevation certificates for all new/improved building in the special flood hazard area (SFHA).
County	Waller
Associated FME's	-
Associated FMP's	-
Emergency Need?	No
If yes, describe Emergency Need	
Drainage area (Est. sq-mi)	801.24
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	1,327	Structures at risk	953	Critical facilities at risk	7
Farm/ranch at risk (acres)	17,059.69	Impacted roadway miles	60.14		
Low water crossings	30	Total historical road closures	30		

100-Year Flood Risk Reduction

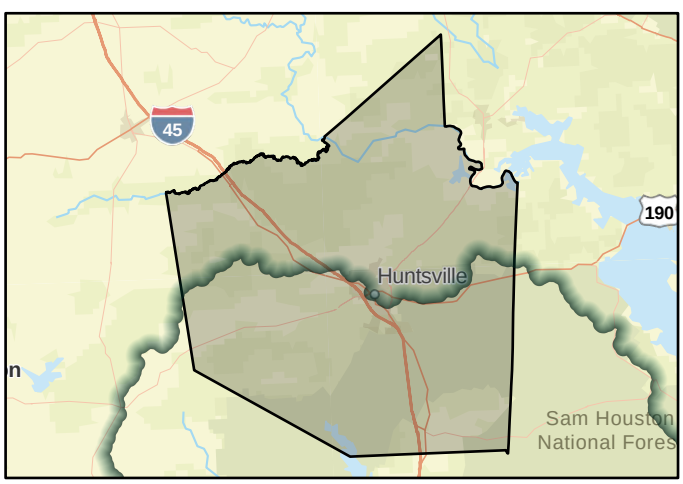
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Reduced NFIP claims, lower homeowner insurance costs, reduced displacement after flood			Residential removed	

Impacts

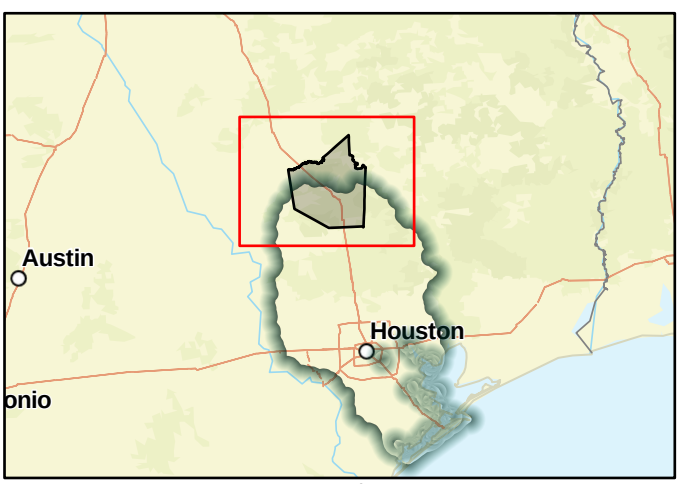
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$61,000	Non-recurring, non-capital cost (NRNC)	$3,000	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: Develop Program to Optimize Operation of the Flood Gates at Second Cut Outlet in City of Kemah

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000017 | Sponsor Entity ID: 06-01-0000003396

Sponsor Name: Kemah (Municipality)

RFPG Recommend? Yes | Reason for Recommendation: Alignment with RFPG goals and TWDB guidance principles.

FMS Details

FMS Type: Regulatory and Guidance

FMS Description: Develop program to integrate with the Harris County Flood Control District for the purpose of optimizing the operation of the flood gates at second cut outlet.

County: Galveston | Associated FME's: - | Associated FMP's: -

Emergency Need? No | If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 1.89 | Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	2,935	Structures at risk	668	Critical facilities at risk	2
Farm/ranch at risk (acres)	14.15	Impacted roadway miles	12.47		
Low water crossings	0	Total historical road closures	0		

100-Year Flood Risk Reduction

Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Regional Coordination, Infrastructure Reliability			Residential removed	

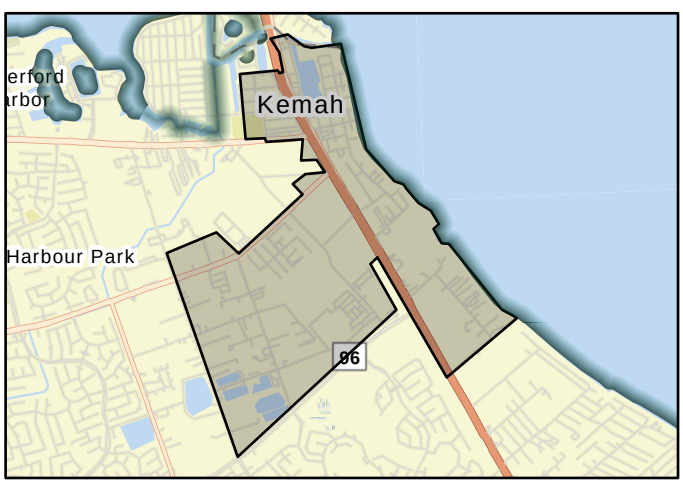
Impacts

Negative impact? No | Negative impact description: -

Water supply contributions? No | Water supply description: -

Estimated Cost(s)

Total FMS cost: $121,000 | Non-recurring, non-capital cost (NRNC): $6,100 | Percent Nature-Based: 0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	Galveston County-wide Education and Outreach
FMS ID	06-53-0000000018
Sponsor Entity ID	00-01-0000000006
Sponsor Name	Galveston County (County)
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Education and Outreach
FMS Description	Provide educational information related to preparedness, mitigation, response, and recovery to the public.
County	Multiple
Associated FME's	-
Associated FMP's	-
Emergency Need?	No
If yes, describe Emergency Need	
Drainage area (Est. sq-mi)	667.09
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	155,273	Structures at risk	72,496	Critical facilities at risk	580
Farm/ranch at risk (acres)	31,038.35	Impacted roadway miles	1,424.17		
Low water crossings	73	Total historical road closures	73		

100-Year Flood Risk Reduction

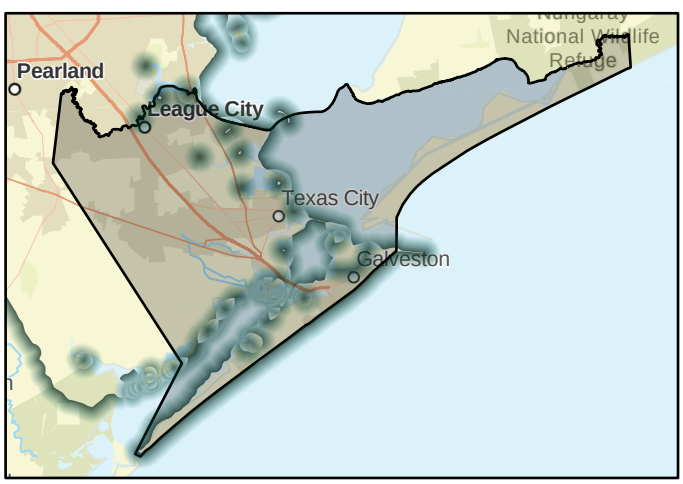
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Public Education			Residential removed	

Impacts

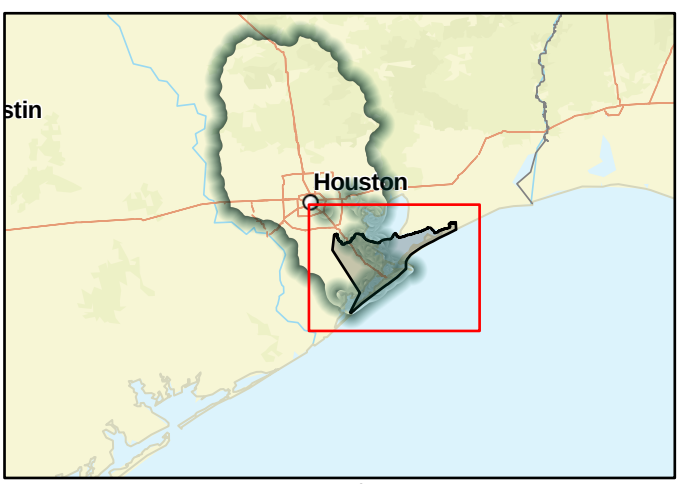
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$61,000	Non-recurring, non-capital cost (NRNC)	$3,000	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: Public Information and Awareness in City of New Waverly

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000019 | Sponsor Entity ID: 06-01-0000003391

Sponsor Name: New Waverly (Municipality)

RFPG Recommend?: Yes | Reason for Recommendation: Alignment with RFPG goals and TWDB guidance principles.

FMS Details

FMS Type: Education and Outreach

FMS Description: Rewrite, improve, and implement new local floodplain regulations, to include a public information campaign on regulatory awareness.

County: Walker | Associated FME's: - | Associated FMP's: -

Emergency Need?: No | If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 2.22 | Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	26	Structures at risk	29	Critical facilities at risk	0
Farm/ranch at risk (acres)	81.01	Impacted roadway miles	1.4		
Low water crossings	0	Total historical road closures	0		

100-Year Flood Risk Reduction

Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Public Education			Residential removed	

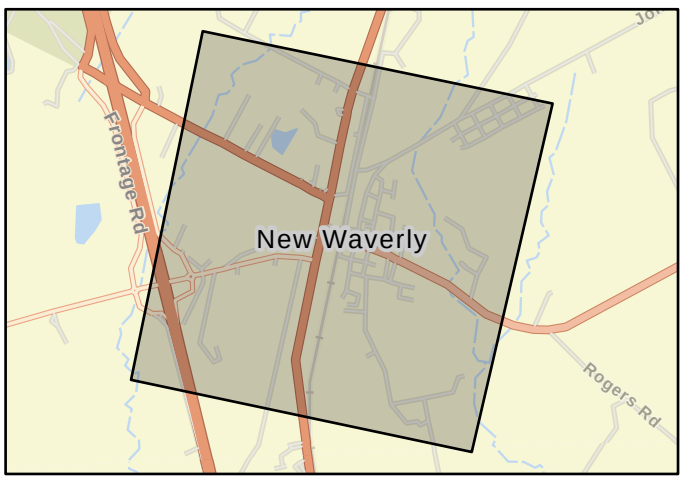
Impacts

Negative impact?: No | Negative impact description: -

Water supply contributions?: No | Water supply description: -

Estimated Cost(s)

Total FMS cost: $12,000 | Non-recurring, non-capital cost (NRNC): $600 | Percent Nature-Based: 0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	Promotion of Flood Insurance in City of Arcola
FMS ID	06-53-0000000020
Sponsor Entity ID	00-01-0000002557
Sponsor Name	Arcola (Municipality)
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Education and Outreach
FMS Description	Promote the purchase of flood insurance. Advertise the availability, cost, and coverage of flood insurance through the NFIP.
County	Fort Bend
Associated FME's	-
Associated FMP's	-
Emergency Need?	No
If yes, describe Emergency Need	
Drainage area (Est. sq-mi)	2.6
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	236	Structures at risk	211	Critical facilities at risk	1
Farm/ranch at risk (acres)	96.8	Impacted roadway miles	1.01		
Low water crossings	2	Total historical road closures	2		

100-Year Flood Risk Reduction

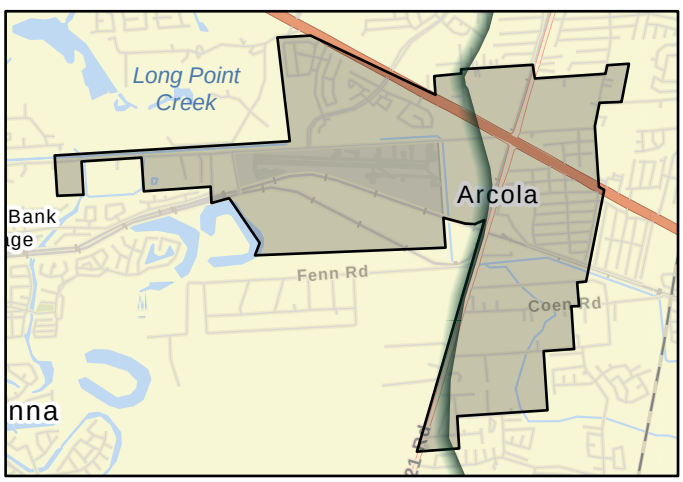
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Public Education			Residential removed	

Impacts

Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$61,000	Non-recurring, non-capital cost (NRNC)	$3,000	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: City of Todd Mission Public Outreach & Education

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000021 Sponsor Entity ID: 06-01-0000003415

Sponsor Name: Todd Mission (Municipality)

RFPG Recommend?: Yes Reason for Recommendation: Alignment with RFPG goals and TWDB guidance principles.

FMS Details

FMS Type: Education and Outreach

FMS Description: Provide educational information related to preparedness, mitigation, response, and recovery to the public.

County: Grimes Associated FME's: - Associated FMP's: -

Emergency Need?: No If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 1.96 Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	17	Structures at risk	30	Critical facilities at risk	0
Farm/ranch at risk (acres)	99.85	Impacted roadway miles	0.06		
Low water crossings	0	Total historical road closures	0		

100-Year Flood Risk Reduction

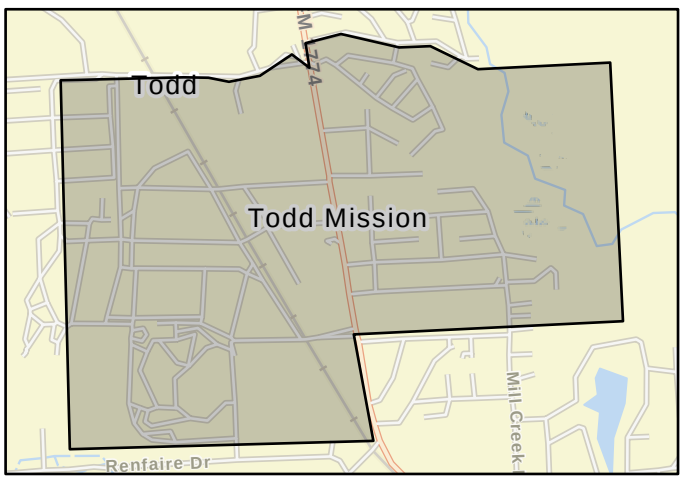
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Public Education			Residential removed	

Impacts

Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$24,000	Non-recurring, non-capital cost (NRNC)	$1,200	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: Increase Public Awareness of Hazards in City of Arcola

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000022 | Sponsor Entity ID: 00-01-0000002557

Sponsor Name: Arcola (Municipality)

RFPG Recommend? Yes | Reason for Recommendation: Alignment with RFPG goals and TWDB guidance principles.

FMS Details

FMS Type: Education and Outreach

FMS Description: Increase public awareness of hazards and hazardous areas. Distribute public awareness information regarding flood hazards.

County: Fort Bend | Associated FME's: - | Associated FMP's: -

Emergency Need? No | If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 2.6 | Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	236	Structures at risk	211	Critical facilities at risk	1
Farm/ranch at risk (acres)	96.8	Impacted roadway miles	1.01		
Low water crossings	2	Total historical road closures	2		

100-Year Flood Risk Reduction

Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Public Education			Residential removed	

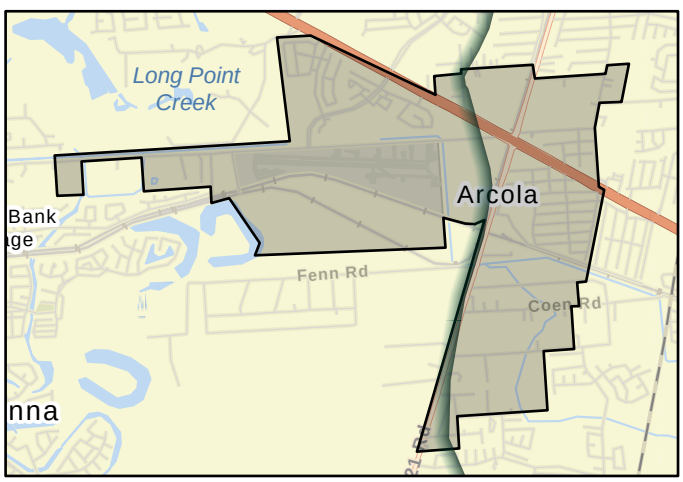
Impacts

Negative impact? No | Negative impact description: -

Water supply contributions? No | Water supply description: -

Estimated Cost(s)

Total FMS cost: $61,000 | Non-recurring, non-capital cost (NRNC): $3,000 | Percent Nature-Based: 0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	Expand Development of Emergency Notification System in Liberty County
FMS ID	06-53-0000000023
Sponsor Entity ID	00-01-0000000033
Sponsor Name	Liberty County (County)
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Education and Outreach
FMS Description	Expand development of emergency notification system/work to establish public awareness of emergency notification process.
County	Liberty
Associated FME's	-
Associated FMP's	-
Emergency Need?	No
If yes, describe Emergency Need	
Drainage area (Est. sq-mi)	1,174.31
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	9,817	Structures at risk	8,634	Critical facilities at risk	30
Farm/ranch at risk (acres)	41,652.82	Impacted roadway miles	360.79		
Low water crossings	18	Total historical road closures	18		

100-Year Flood Risk Reduction

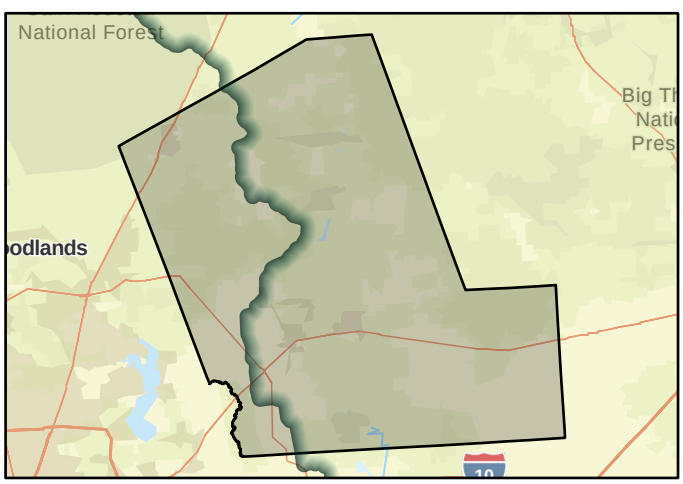
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Public Education			Residential removed	

Impacts

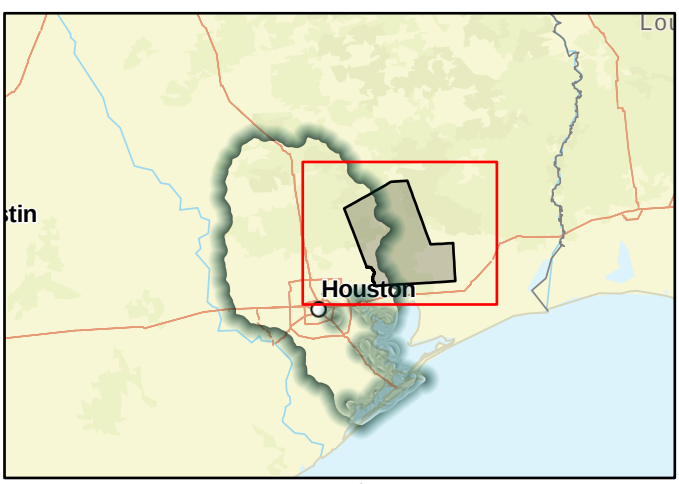
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$12,000	Non-recurring, non-capital cost (NRNC)	$600	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: Galveston County Stormproof/Retrofit Infrastructure

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000025 | Sponsor Entity ID: 00-01-0000000006

Sponsor Name: Galveston County (County)

RFPG Recommend?: Yes | Reason for Recommendation: Alignment with RFPG goals and TWDB guidance principles.

FMS Details

FMS Type: Infrastructure Projects

FMS Description: Stormproof/retrofit critical facilities and infrastructure for county-owned properties and unincorporated areas.

County: Galveston | Associated FME's: - | Associated FMP's: -

Emergency Need?: Yes | If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 667.37 | Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	155,271	Structures at risk	72,494	Critical facilities at risk	580
Farm/ranch at risk (acres)	31,057.73	Impacted roadway miles	1,423.14		
Low water crossings	73	Total historical road closures	73		

100-Year Flood Risk Reduction

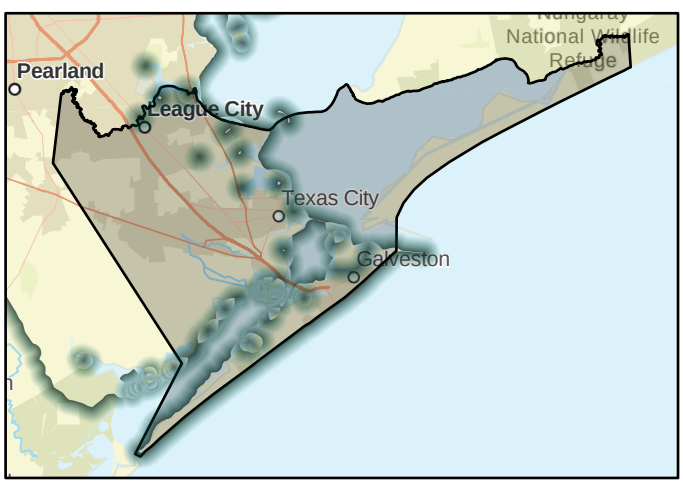
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Public Uplift			Residential removed	

Impacts

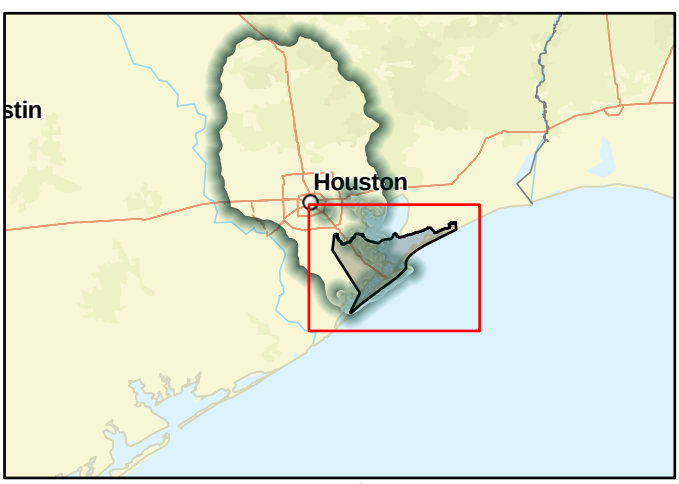
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$6,056,000	Non-recurring, non-capital cost (NRNC)	$302,800	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	Implement Stormwater Management Plan in City of Bayou Vista
FMS ID	06-53-0000000026
Sponsor Entity ID	06-01-0000002806
Sponsor Name	Bayou Vista (Municipality)
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Regulatory and Guidance
FMS Description	Implement stormwater management plan to improve drainage during flood and other weather events.
County	Galveston
Associated FME's	-
Associated FMP's	-
Emergency Need?	No
If yes, describe Emergency Need	
Drainage area (Est. sq-mi)	0.45
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	79	Structures at risk	50	Critical facilities at risk	0
Farm/ranch at risk (acres)	0	Impacted roadway miles	0.01		
Low water crossings	0	Total historical road closures	0		

100-Year Flood Risk Reduction

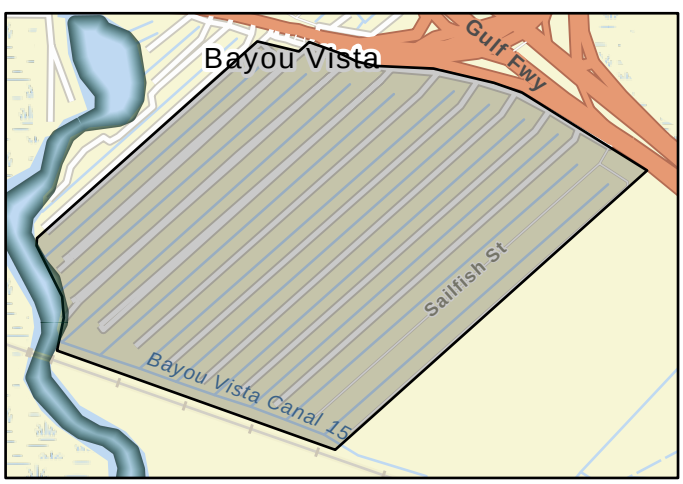
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Infrastructure reliability			Residential removed	

Impacts

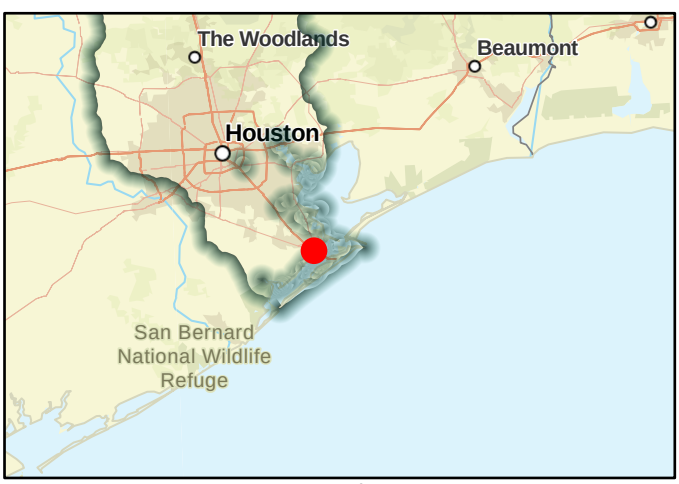
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$30,000	Non-recurring, non-capital cost (NRNC)	$1,500	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	Walker County Public Information and Awareness
FMS ID	06-53-0000000027
Sponsor Entity ID	00-01-0000000053
Sponsor Name	Walker County (County)
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Flood Measurement and Warning
FMS Description	Purchase high water (flood) indicators for low water river crossing for county roads.
County	Walker
Associated FME's	-
Associated FMP's	-
Emergency Need?	No
If yes, describe Emergency Need	
Drainage area (Est. sq-mi)	801.02
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	1,327	Structures at risk	953	Critical facilities at risk	7
Farm/ranch at risk (acres)	17,057.26	Impacted roadway miles	60.14		
Low water crossings	30	Total historical road closures	30		

100-Year Flood Risk Reduction

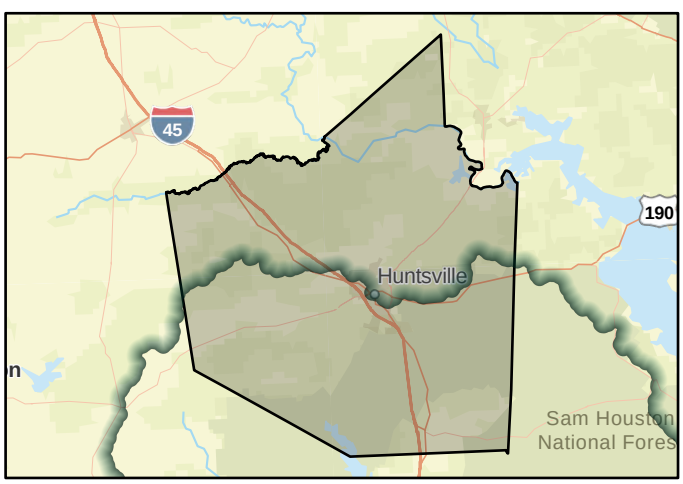
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Public Safety, Public Education			Residential removed	

Impacts

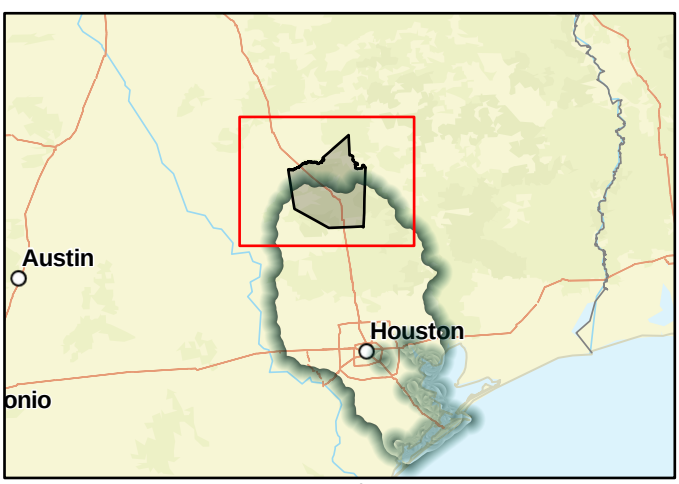
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$149,000	Non-recurring, non-capital cost (NRNC)	$7,400	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: City of Bayou Vista Severe Weather Warning Systems

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000028 | Sponsor Entity ID: 06-01-0000002806

Sponsor Name: Bayou Vista (Municipality)

RFPG Recommend?: Yes | Reason for Recommendation: Alignment with RFPG goals and TWDB guidance principles.

FMS Details

FMS Type: Flood Measurement and Warning

FMS Description: Purchase and install severe weather warning systems

County: Galveston | Associated FME's: - | Associated FMP's: -

Emergency Need?: No | If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 0.45 | Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	79	Structures at risk	50	Critical facilities at risk	0
Farm/ranch at risk (acres)	0	Impacted roadway miles	0.01		
Low water crossings	0	Total historical road closures	0		

100-Year Flood Risk Reduction

Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0

Other benefits: Public Safety, Emergency Preparedness | Residential removed:

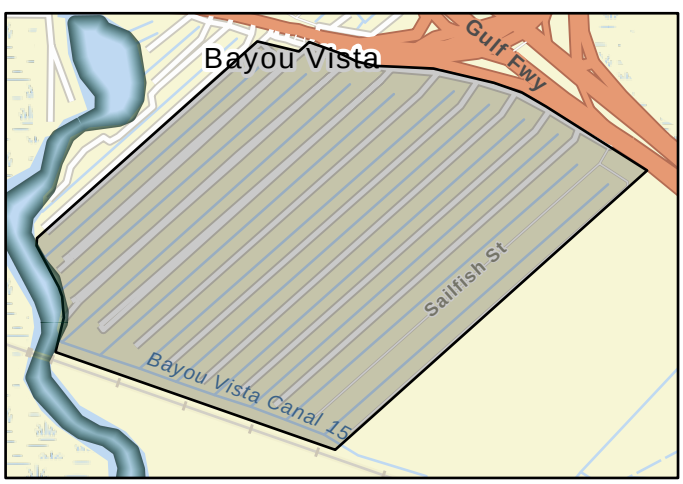
Impacts

Negative impact?: No | Negative impact description: -

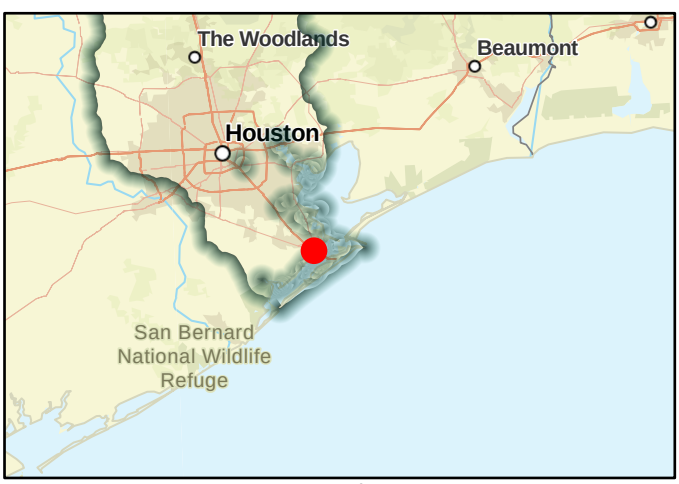
Water supply contributions?: No | Water supply description: -

Estimated Cost(s)

Total FMS cost: $42,000 | Non-recurring, non-capital cost (NRNC): $2,100 | Percent Nature-Based: 0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: Brazoria County Structure Elevation

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000031 | Sponsor Entity ID: 00-01-0000000003

Sponsor Name: Brazoria County (County)

RFPG Recommend?: Yes | Reason for Recommendation: Alignment with RFPG goals and TWDB guidance principles.

FMS Details

FMS Type: Property Acquisition and Structural Elevation

FMS Description: Elevate structures in flood zone. Over 70% of these structures are pre-firm and do not meet current FEMA elevation standards. FEMA estimates that over 400 structures may be substantially damaged and must be elevated to meet current standards.

County: Brazoria | Associated FME's: - | Associated FMP's: -

Emergency Need?: Yes | If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 1,486.24 | Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	75,154	Structures at risk	33,594	Critical facilities at risk	225
Farm/ranch at risk (acres)	64,116.73	Impacted roadway miles	591.8		
Low water crossings	44	Total historical road closures	44		

100-Year Flood Risk Reduction

Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0

Other benefits: Reduced NFIP claims, lower homeowner insurance costs, reduced displacement after flood | Residential removed:

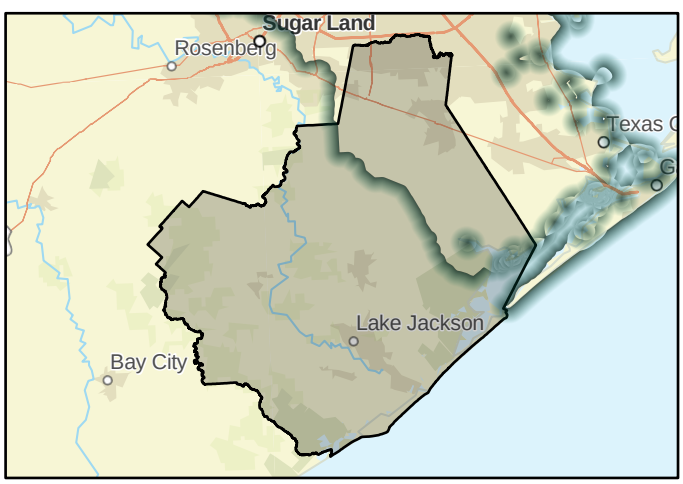
Impacts

Negative impact?: No | Negative impact description: -

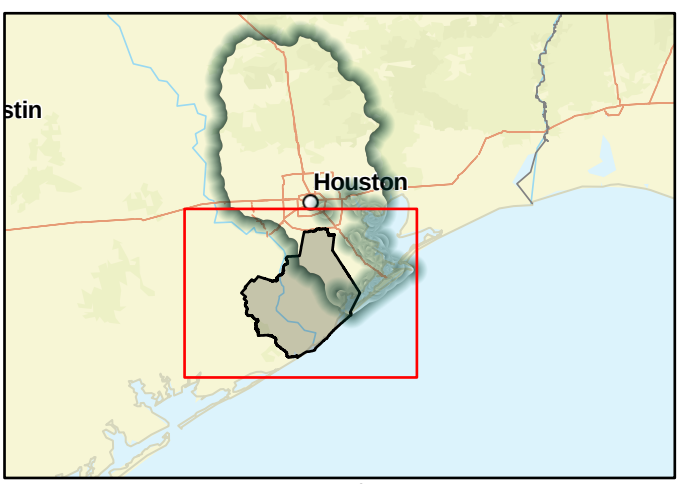
Water supply contributions?: No | Water supply description: -

Estimated Cost(s)

Total FMS cost: $72,673,000 | Non-recurring, non-capital cost (NRNC): $3,633,600 | Percent Nature-Based: 0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: Brazoria County Non-structural Mitigation / Land Preservation

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000032 | Sponsor Entity ID: 00-01-0000000003

Sponsor Name: Brazoria County (County)

RFPG Recommend?: Yes | Reason for Recommendation: Alignment with RFPG goals and TWDB guidance principles.

FMS Details

FMS Type: Property Acquisition and Structural Elevation

FMS Description: Up to 35,0000 acres of land could be purchased to help reduce the impacts of natural hazards by converting the space to floodwater storage, groundwater recharge, erosion, drought mitigation, in the form of public green space.

County: Brazoria | Associated FME's: - | Associated FMP's: -

Emergency Need?: Yes | If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 1,486.24 | Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	75,154	Structures at risk	33,594	Critical facilities at risk	225
Farm/ranch at risk (acres)	64,116.73	Impacted roadway miles	591.8		
Low water crossings	44	Total historical road closures	44		

100-Year Flood Risk Reduction

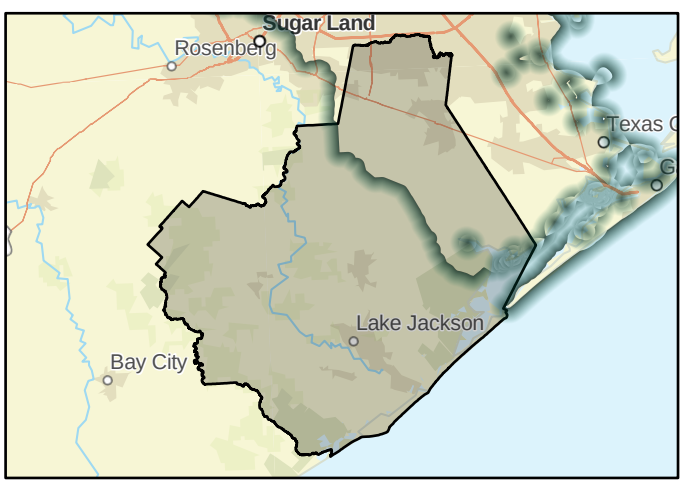
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Environmental, Low Impact Development Features			Residential removed	

Impacts

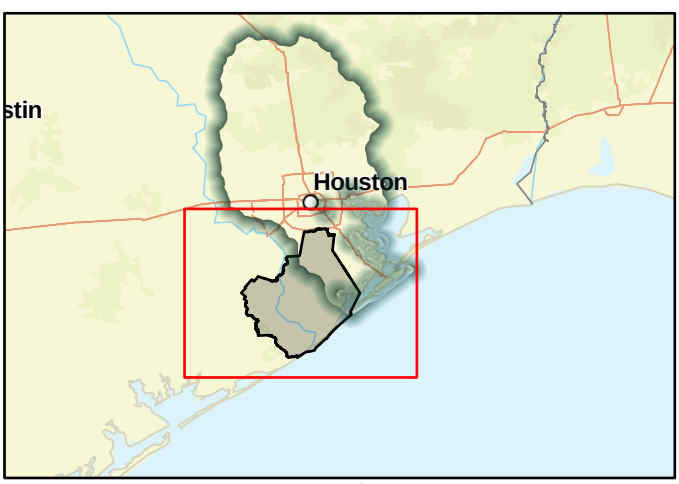
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$78,729,000	Non-recurring, non-capital cost (NRNC)	$3,936,400	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: City of Bellaire Flood Rescue Plan

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000033 Sponsor Entity ID: 06-01-0000002854

Sponsor Name: Bellaire (Municipality)

RFPG Recommend? Yes Reason for Recommendation: Alignment with RFPG goals and TWDB guidance principles.

FMS Details

FMS Type: Regulatory and Guidance

FMS Description: Develop a plan to address rescues from both one-story and two-story homes. This includes evacuating disabled/physically impaired/elderly individuals from homes in advance of anticipated extreme rainfall events.

County: Harris Associated FME's: - Associated FMP's: -

Emergency Need? No If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 3.6 Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	27,533	Structures at risk	6,106	Critical facilities at risk	65
Farm/ranch at risk (acres)	0	Impacted roadway miles	74.43		
Low water crossings	0	Total historical road closures	0		

100-Year Flood Risk Reduction

Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Emergency Preparedness, Public Safety			Residential removed	

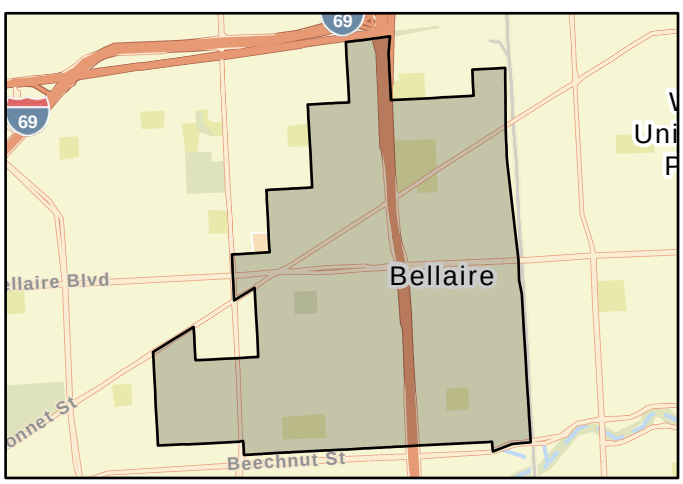
Impacts

Negative impact? No Negative impact description: -

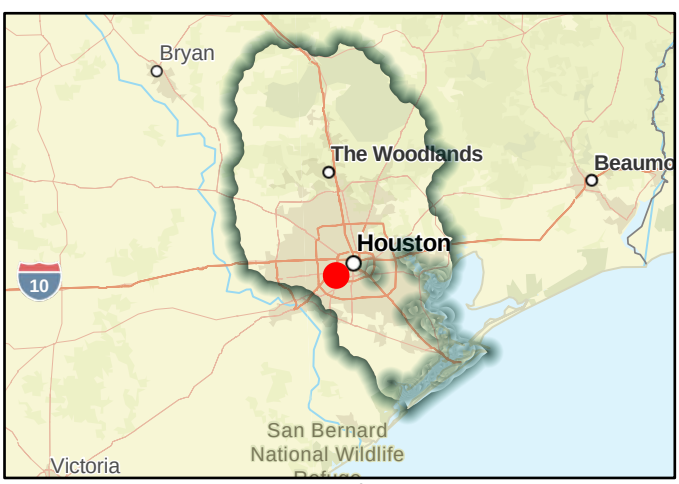
Water supply contributions? No Water supply description: -

Estimated Cost(s)

Total FMS cost: $240,000 Non-recurring, non-capital cost (NRNC): $12,000 Percent Nature-Based: 0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	Brazoria County Dam and Levee Failure Outreach and Education campaign
FMS ID	06-53-0000000034
Sponsor Entity ID	00-01-0000000003
Sponsor Name	Brazoria County (County)
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Education and Outreach
FMS Description	Implement an outreach and education campaign to educate the public on mitigation techniques for dam and levee failure to reduce loss of life and property.

County	Brazoria	Associated FME's	-	Associated FMP's	-
Emergency Need?	No	If yes, describe Emergency Need			
Drainage area (Est. sq-mi)	1,486.24	Assumptions/Relevant Context	N/A		

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	75,154	Structures at risk	33,594	Critical facilities at risk	225
Farm/ranch at risk (acres)	64,116.73	Impacted roadway miles	591.8		
Low water crossings	44	Total historical road closures	44		

100-Year Flood Risk Reduction

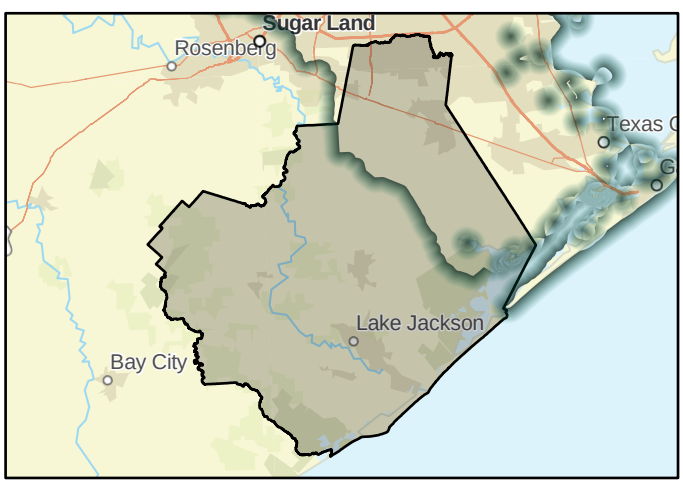
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Public Education			Residential removed	

Impacts

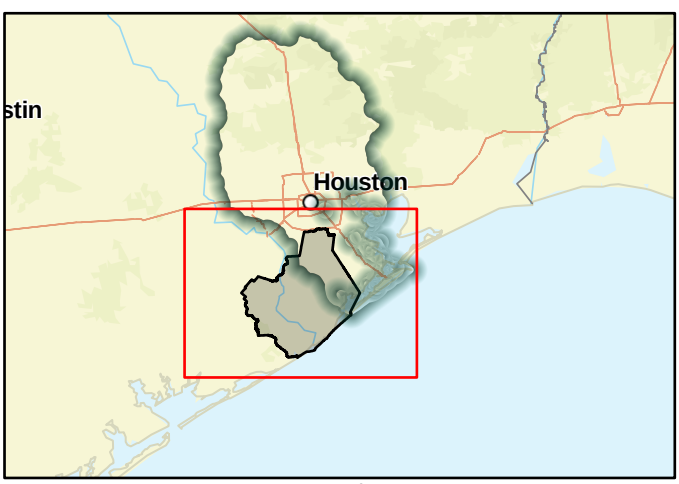
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$24,000	Non-recurring, non-capital cost (NRNC)	$1,200	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	Amending Grimes County Floodplain Ordinance
FMS ID	06-53-0000000035
Sponsor Entity ID	00-01-0000000044
Sponsor Name	Grimes County (County)
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Regulatory and Guidance
FMS Description	Prohibit the building of any new structures located down-stream of high hazard dams by amending the floodplain ordinance.
County	Grimes
Associated FME's	-
Associated FMP's	-
Emergency Need?	No
If yes, describe Emergency Need	
Drainage area (Est. sq-mi)	802.15
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	390	Structures at risk	501	Critical facilities at risk	1
Farm/ranch at risk (acres)	12,765.33	Impacted roadway miles	24.16		
Low water crossings	11	Total historical road closures	11		

100-Year Flood Risk Reduction

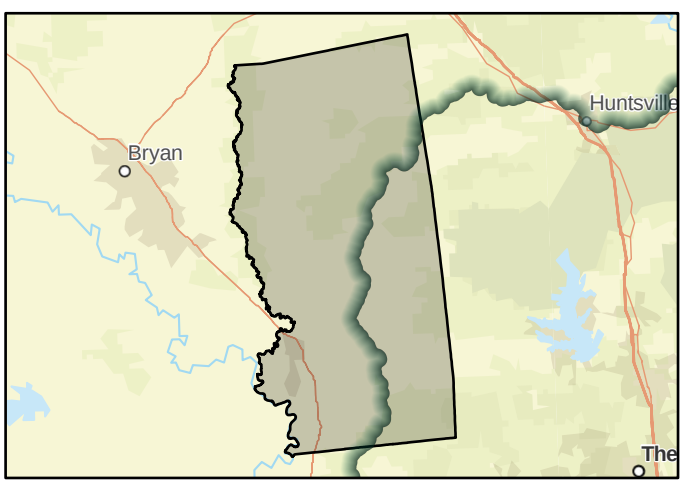
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Regulatory Compliance, improved development standards			Residential removed	

Impacts

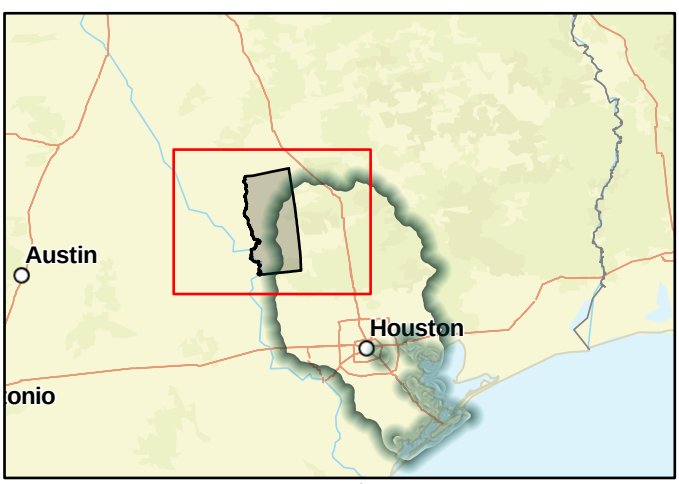
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$24,000	Non-recurring, non-capital cost (NRNC)	$1,200	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	Grimes County Property Acquisition
FMS ID	06-53-0000000036
Sponsor Entity ID	00-01-0000000044
Sponsor Name	Grimes County (County)
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Property Acquisition and Structural Elevation
FMS Description	Per NFIP participation, the acquisition of structures located in the 100-year flood plain and in dam inundation areas.
County	Grimes
Associated FME's	-
Associated FMP's	-
Emergency Need?	Yes
If yes, describe Emergency Need	
Drainage area (Est. sq-mi)	802.15
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	390	Structures at risk	501	Critical facilities at risk	1
Farm/ranch at risk (acres)	12,765.33	Impacted roadway miles	24.16		
Low water crossings	11	Total historical road closures	11		

100-Year Flood Risk Reduction

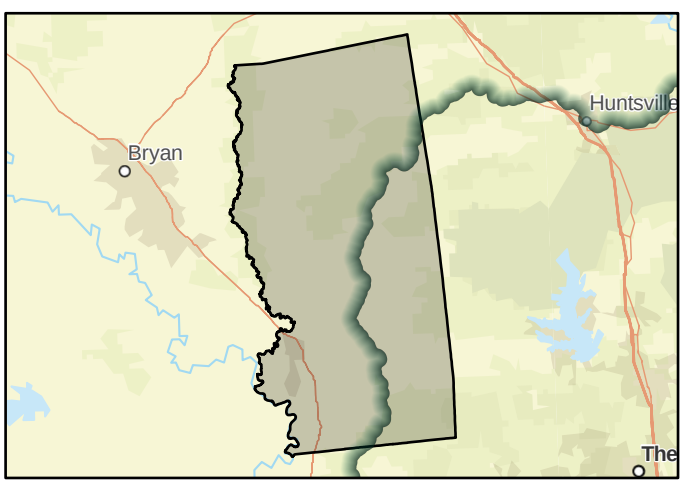
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Reduced NFIP claims, lower homeowner insurance costs, reduced displacement after flood			Residential removed	

Impacts

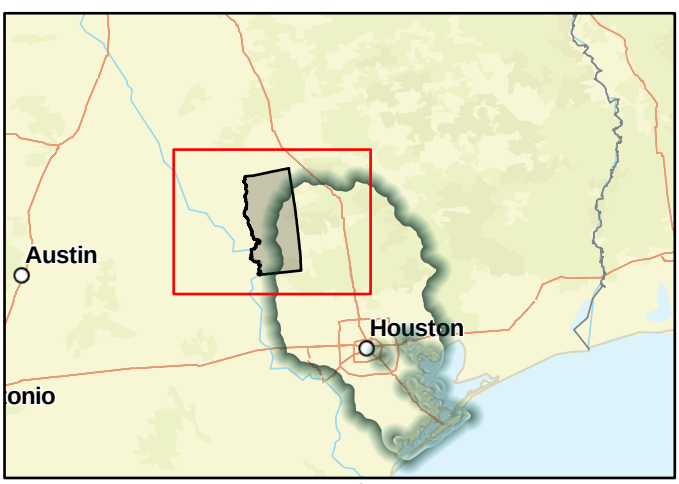
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$115,000	Non-recurring, non-capital cost (NRNC)	$5,800	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: Property Acquisition Down-Stream of High Hazard Dams in Grimes County

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000037 | Sponsor Entity ID: 00-01-0000000044

Sponsor Name: Grimes County (County)

RFPG Recommend?: Yes | Reason for Recommendation: Alignment with RFPG goals and TWDB guidance principles.

FMS Details

FMS Type: Property Acquisition and Structural Elevation

FMS Description: Acquire homes located down-stream of high hazard dams.

County: Grimes | Associated FME's: - | Associated FMP's: -

Emergency Need?: Yes | If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 802.15 | Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	390	Structures at risk	501	Critical facilities at risk	1
Farm/ranch at risk (acres)	12,765.33	Impacted roadway miles	24.16		
Low water crossings	11	Total historical road closures	11		

100-Year Flood Risk Reduction

Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0

Other benefits: Reduced NFIP claims, lower homeowner insurance costs, reduced displacement after flood | Residential removed:

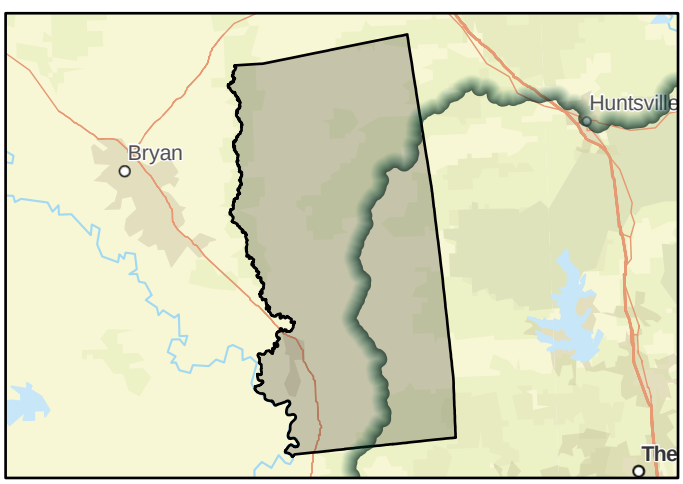
Impacts

Negative impact?: No | Negative impact description: -

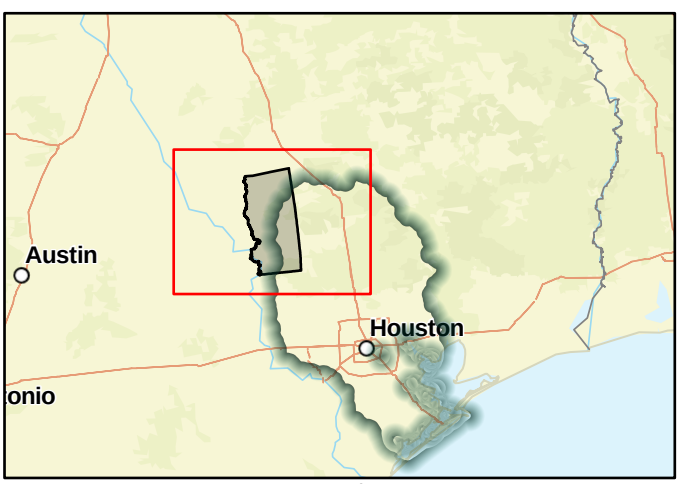
Water supply contributions?: No | Water supply description: -

Estimated Cost(s)

Total FMS cost: $1,211,000 | Non-recurring, non-capital cost (NRNC): $60,600 | Percent Nature-Based: 0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	City of Santa Fe Stormproof/retrofit New Critical Infrastructure
FMS ID	06-53-0000000039
Sponsor Entity ID	06-01-0000003149
Sponsor Name	Santa Fe (Municipality)
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Regulatory and Guidance
FMS Description	New construction and existing critical facilities and infrastructure should include advanced mitigation techniques.
County	Galveston
Associated FME's	-
Associated FMP's	-
Emergency Need?	No
If yes, describe Emergency Need	
Drainage area (Est. sq-mi)	17.09
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	3,353	Structures at risk	2,282	Critical facilities at risk	13
Farm/ranch at risk (acres)	1,195.09	Impacted roadway miles	26.47		
Low water crossings	5	Total historical road closures	5		

100-Year Flood Risk Reduction

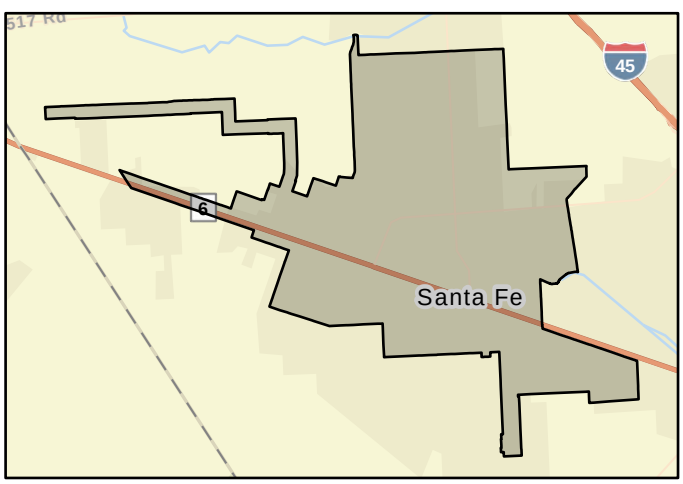
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Infrastructure reliability, continuity of essential services			Residential removed	

Impacts

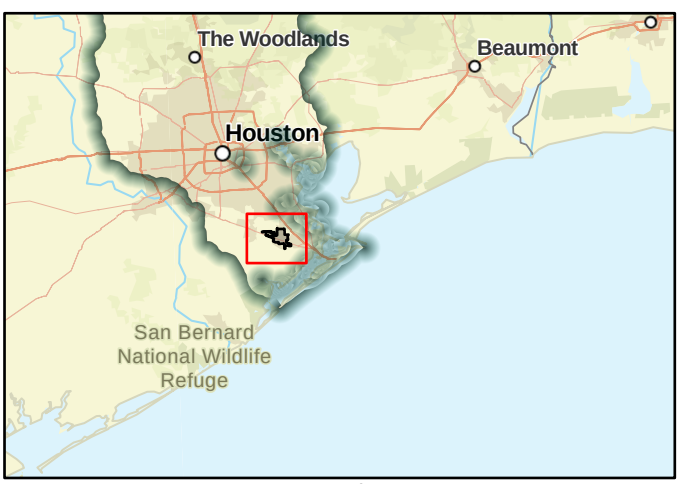
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$6,056,000	Non-recurring, non-capital cost (NRNC)	$302,800	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	Waller County Drainage System Maintenance
FMS ID	06-53-0000000040
Sponsor Entity ID	00-01-0000000024
Sponsor Name	Waller County (County)
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Infrastructure Projects
FMS Description	Project will clear obstacles, widen and reshape ditches, and upgrade culverts to restore adequate drainage to mitigate flooding in all participating jurisdictions.

County	Waller	Associated FME's	-	Associated FMP's	-
Emergency Need?	No	If yes, describe Emergency Need			
Drainage area (Est. sq-mi)	517.9	Assumptions/Relevant Context	N/A		

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	5,853	Structures at risk	4,037	Critical facilities at risk	4
Farm/ranch at risk (acres)	41,700.12	Impacted roadway miles	134.68		
Low water crossings	17	Total historical road closures	17		

100-Year Flood Risk Reduction

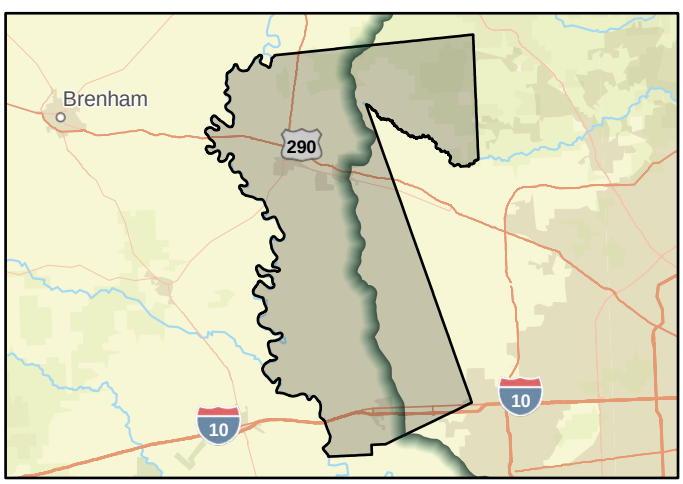
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Infrastructure reliability, continuity of essential services			Residential removed	

Impacts

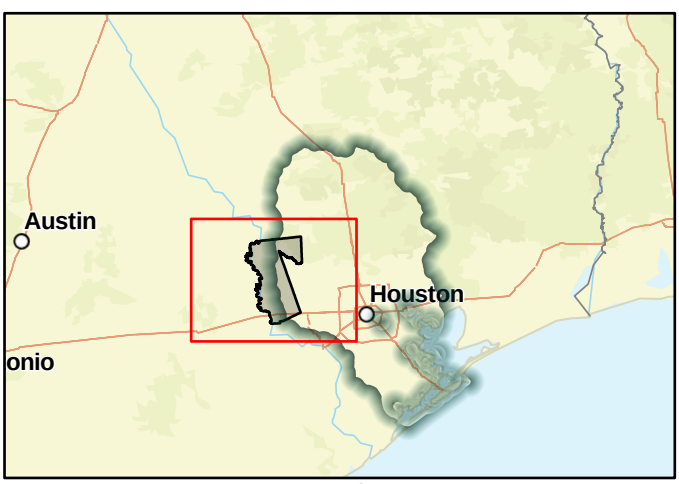
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$3,028,000	Non-recurring, non-capital cost (NRNC)	$151,400	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	Waller County Flood Hazard Public Information Campaign
FMS ID	06-53-0000000041
Sponsor Entity ID	00-01-0000000024
Sponsor Name	Waller County (County)
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Education and Outreach
FMS Description	Posting of signage at high profile locations and use of social media to communicate threats/concerns. Flood gauges for common flooded road crossings. Burn ban signs.
County	Waller
Associated FME's	-
Associated FMP's	-
Emergency Need?	No
If yes, describe Emergency Need	
Drainage area (Est. sq-mi)	517.9
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	5,853	Structures at risk	4,037	Critical facilities at risk	4
Farm/ranch at risk (acres)	41,700.12	Impacted roadway miles	134.68		
Low water crossings	17	Total historical road closures	17		

100-Year Flood Risk Reduction

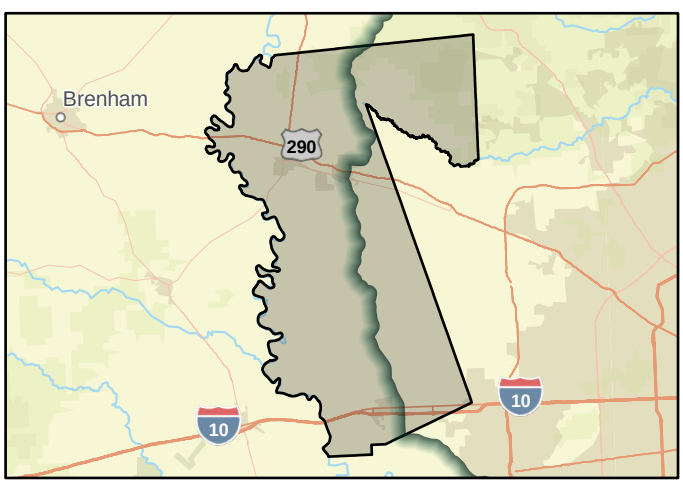
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Public Education			Residential removed	

Impacts

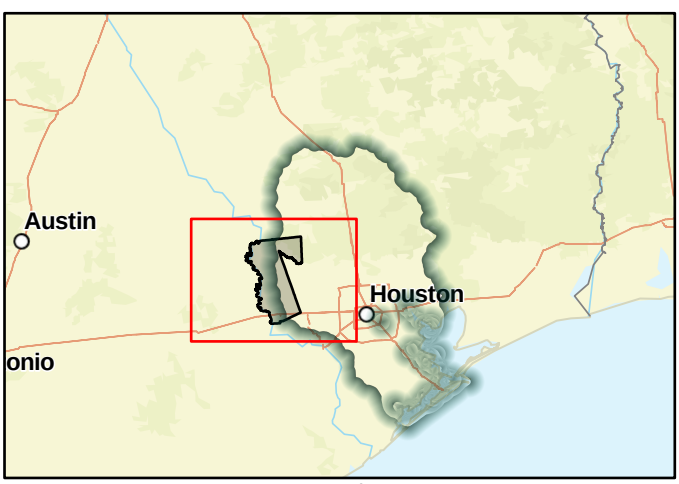
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$24,000	Non-recurring, non-capital cost (NRNC)	$1,200	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	Waller County Freeboard Requirement Update
FMS ID	06-53-0000000042
Sponsor Entity ID	00-01-0000000024
Sponsor Name	Waller County (County)
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Regulatory and Guidance
FMS Description	The county may increase its freeboard requirement to 24-in from 18-in above the base flood elevation. County may require that all new lots within a platted subdivision be located fully outside of the floodplain. Applicable to all floodplain development.

County	Waller	Associated FME's	-	Associated FMP's	-
Emergency Need?	No	If yes, describe Emergency Need			
Drainage area (Est. sq-mi)	517.9	Assumptions/Relevant Context	N/A		

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	5,853	Structures at risk	4,037	Critical facilities at risk	4
Farm/ranch at risk (acres)	41,700.12	Impacted roadway miles	134.68		
Low water crossings	17	Total historical road closures	17		

100-Year Flood Risk Reduction

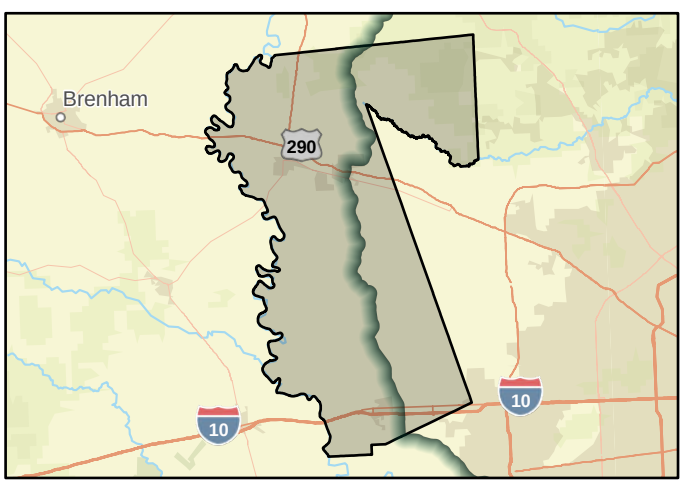
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Reduced NFIP claims, lower homeowner insurance costs, reduced displacement after flood			Residential removed	

Impacts

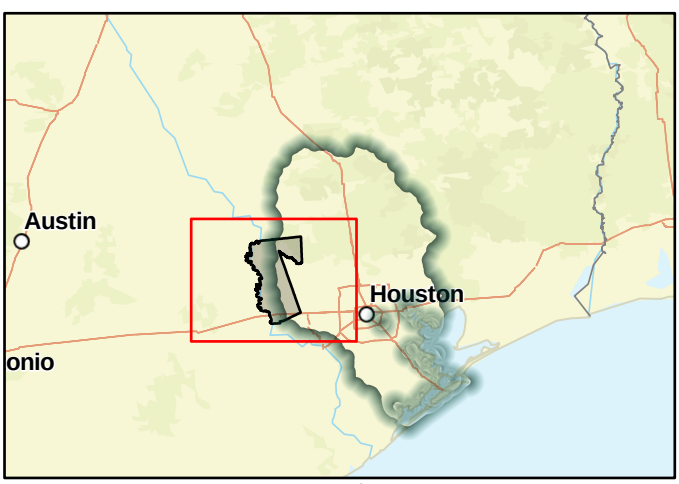
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$121,000	Non-recurring, non-capital cost (NRNC)	$6,100	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	Install Outdoor Early warning System in Walker County
FMS ID	06-53-0000000043
Sponsor Entity ID	00-01-0000000053
Sponsor Name	Walker County (County)
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Education and Outreach
FMS Description	Install Outdoor Early warning System to provide citizens early warning of an impending disaster, or an event that would affect the life and/or property of the citizens.

County	Walker	Associated FME's	-
Associated FMP's	-	Emergency Need?	No
If yes, describe Emergency Need		Drainage area (Est. sq-mi)	801.17
Assumptions/Relevant Context	N/A		

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	1,327	Structures at risk	953	Critical facilities at risk	7
Farm/ranch at risk (acres)	17,056.92	Impacted roadway miles	60.14		
Low water crossings	30	Total historical road closures	30		

100-Year Flood Risk Reduction

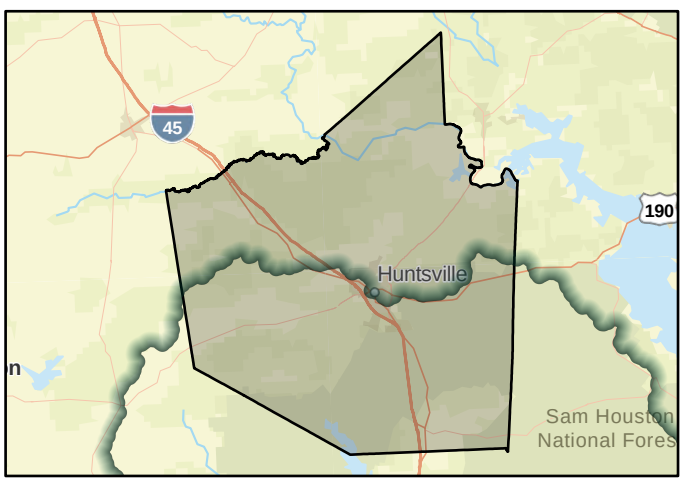
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Public Education			Residential removed	

Impacts

Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$1,030,000	Non-recurring, non-capital cost (NRNC)	$51,500	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: Walker County Public Hazard Information and Awareness Campaign

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000044 | Sponsor Entity ID: 00-01-0000000053

Sponsor Name: Walker County (County)

RFPG Recommend?: Yes | Reason for Recommendation: Alignment with RFPG goals and TWDB guidance principles.

FMS Details

FMS Type: Education and Outreach

FMS Description: The county and participating jurisdiction will create and implement an education campaign to educate the public on mitigation techniques for all hazards.

County: Walker | Associated FME's: - | Associated FMP's: -

Emergency Need?: No | If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 801.17 | Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	1,327	Structures at risk	953	Critical facilities at risk	7
Farm/ranch at risk (acres)	17,056.92	Impacted roadway miles	60.14		
Low water crossings	30	Total historical road closures	30		

100-Year Flood Risk Reduction

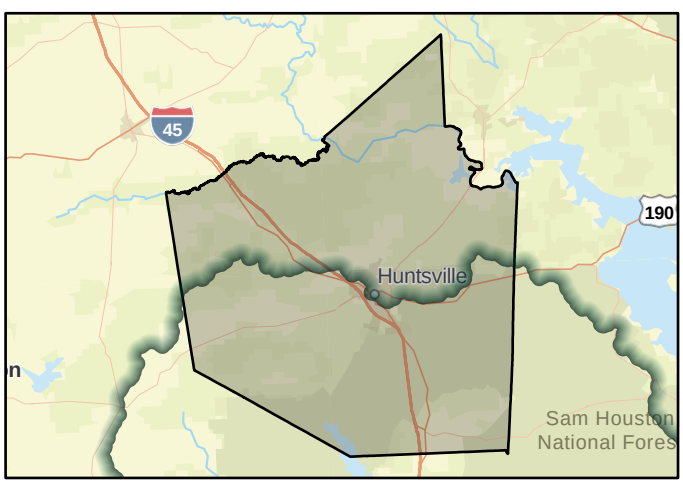
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Public Education			Residential removed	

Impacts

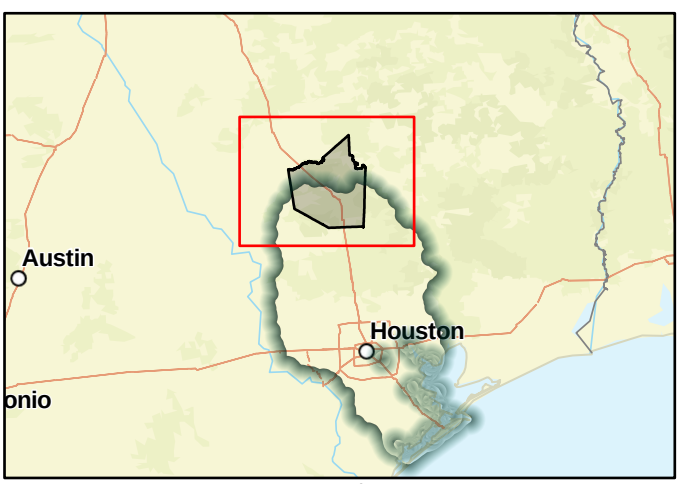
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$24,000	Non-recurring, non-capital cost (NRNC)	$1,200	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	Retrofit and Harden the Emergency Operations Center Serving Walker County
FMS ID	06-53-0000000045
Sponsor Entity ID	00-01-0000000053
Sponsor Name	Walker County (County)
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Education and Outreach
FMS Description	Retrofit and harden the Emergency Operations Center serving Walker county including city of Huntsville, New Waverly, and Riverside.
County	Walker
Associated FME's	-
Associated FMP's	-
Emergency Need?	No
If yes, describe Emergency Need	
Drainage area (Est. sq-mi)	801.17
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	1,327	Structures at risk	953	Critical facilities at risk	7
Farm/ranch at risk (acres)	17,056.92	Impacted roadway miles	60.14		
Low water crossings	30	Total historical road closures	30		

100-Year Flood Risk Reduction

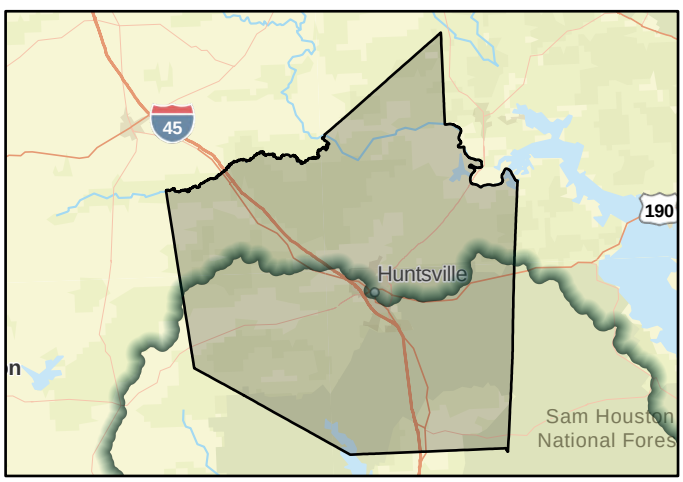
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Public Uplift			Residential removed	

Impacts

Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$4,845,000	Non-recurring, non-capital cost (NRNC)	$242,200	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	City of Cleveland Drainage Maintenance
FMS ID	06-53-0000000046
Sponsor Entity ID	06-01-0000002530
Sponsor Name	Cleveland (Municipality)
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Infrastructure Projects
FMS Description	Removal of debris, silt and vegetation obstacles in drainageways. Project will clear obstacles, mow and reshape ditches, and upgrade culverts to restore adequate drainage to mitigate flooding.

County	Multiple	Associated FME's	-
Associated FMP's	-	Emergency Need?	No
If yes, describe Emergency Need		Drainage area (Est. sq-mi)	18.81
Assumptions/Relevant Context	N/A		

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	3,732	Structures at risk	1,058	Critical facilities at risk	20
Farm/ranch at risk (acres)	960.83	Impacted roadway miles	54.67		
Low water crossings	1	Total historical road closures	1		

100-Year Flood Risk Reduction

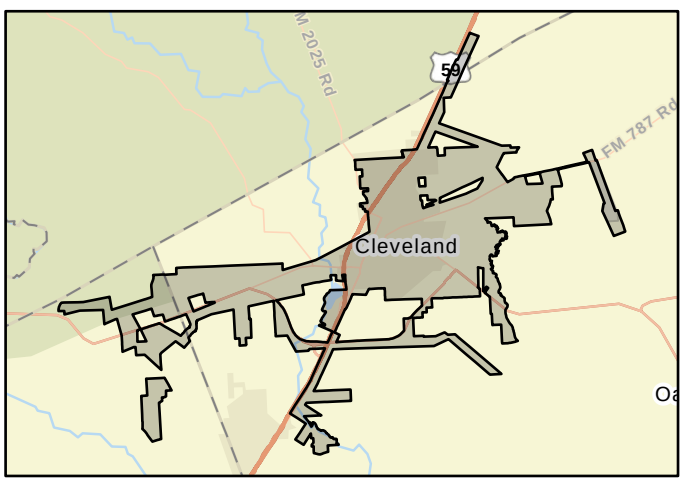
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Environmental			Residential removed	

Impacts

Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$6,056,000	Non-recurring, non-capital cost (NRNC)	$302,800	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	City of Hilcrest Village Land Acquisition
FMS ID	06-53-0000000047
Sponsor Entity ID	06-01-0000003026
Sponsor Name	Hillcrest Village (Municipality)
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Property Acquisition and Structural Elevation
FMS Description	Purchase additional land for retention pond construction to mitigate flooding in flood zones.
County	Brazoria
Associated FME's	-
Associated FMP's	-
Emergency Need?	Yes
If yes, describe Emergency Need	
Drainage area (Est. sq-mi)	0.44
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	180	Structures at risk	78	Critical facilities at risk	0
Farm/ranch at risk (acres)	4.59	Impacted roadway miles	1.37		
Low water crossings	0	Total historical road closures	0		

100-Year Flood Risk Reduction

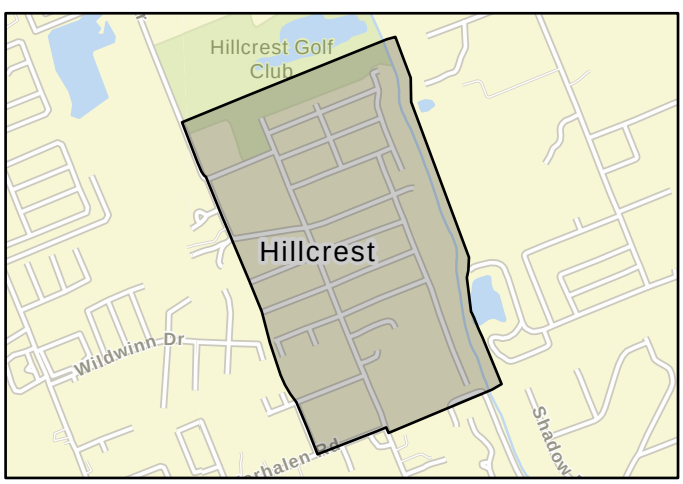
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Reduced NFIP claims, lower homeowner insurance costs, reduced displacement after flood			Residential removed	

Impacts

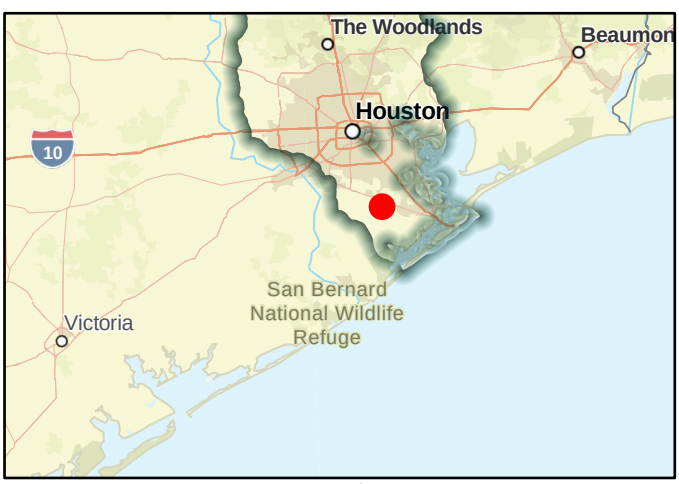
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$303,000	Non-recurring, non-capital cost (NRNC)	$15,100	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	City of Manvel Property Acquisition
FMS ID	06-53-0000000048
Sponsor Entity ID	06-01-0000002985
Sponsor Name	Manvel (Municipality)
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Property Acquisition and Structural Elevation
FMS Description	Acquire Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties in the 100-year flood plain, as identified by FEMA and NFIP.
County	Brazoria
Associated FME's	-
Associated FMP's	-
Emergency Need?	Yes
If yes, describe Emergency Need	
Drainage area (Est. sq-mi)	27.5
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	983	Structures at risk	634	Critical facilities at risk	4
Farm/ranch at risk (acres)	4,011.1	Impacted roadway miles	24.11		
Low water crossings	6	Total historical road closures	6		

100-Year Flood Risk Reduction

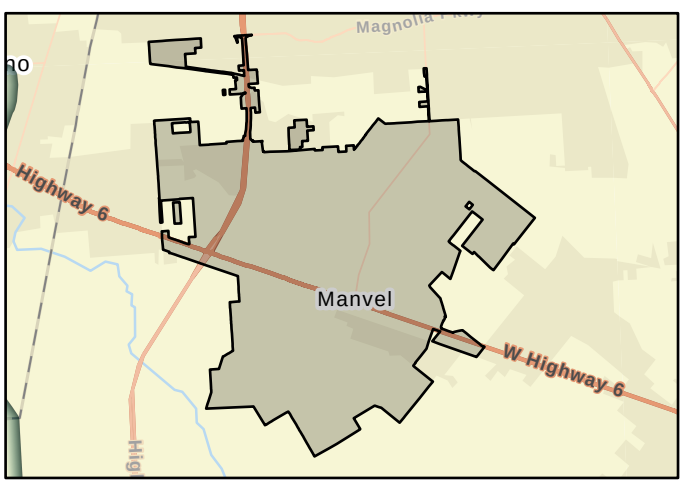
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Reduced NFIP claims, lower homeowner insurance costs, reduced displacement after flood			Residential removed	

Impacts

Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$2,059,000	Non-recurring, non-capital cost (NRNC)	$103,000	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	City of Bayou Vista Management Practices for Securing Windblown Debris in Canals
FMS ID	06-53-0000000050
Sponsor Entity ID	06-01-0000002806
Sponsor Name	Bayou Vista (Municipality)
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Infrastructure Projects
FMS Description	Debris generated by many hazards if the level of intensity allows. Implement plan to remove debris throughout the canal system especially since Bayou Vista is a residential canal community.
County	Galveston
Associated FME's	-
Associated FMP's	-
Emergency Need?	No
If yes, describe Emergency Need	
Drainage area (Est. sq-mi)	0.45
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	79	Structures at risk	50	Critical facilities at risk	0
Farm/ranch at risk (acres)	0	Impacted roadway miles	0.01		
Low water crossings	0	Total historical road closures	0		

100-Year Flood Risk Reduction

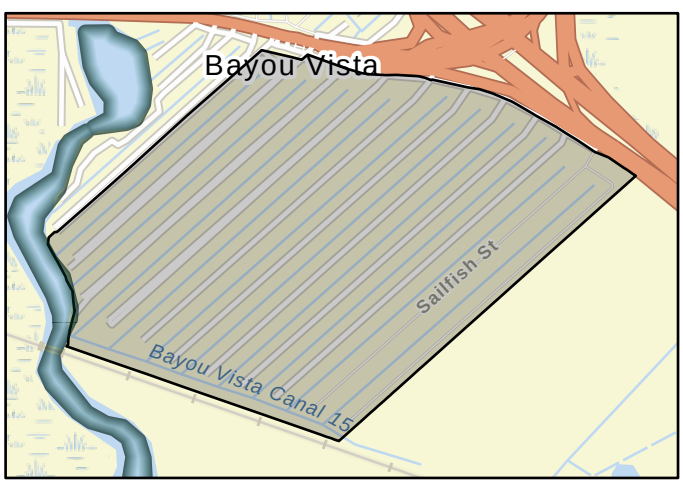
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Environmental			Residential removed	

Impacts

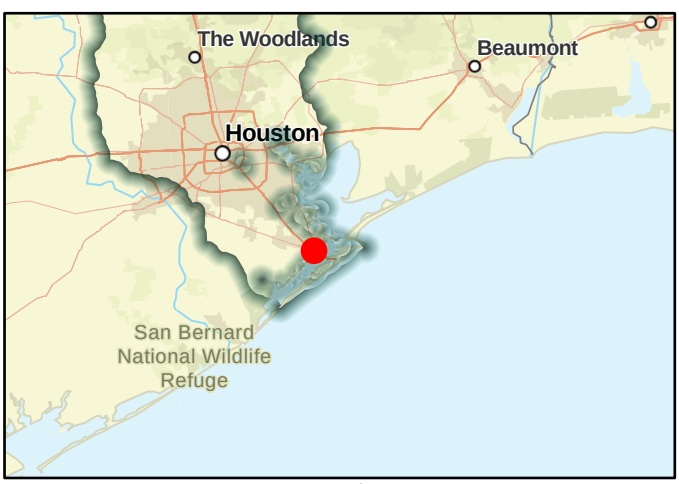
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$121,000	Non-recurring, non-capital cost (NRNC)	$6,100	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	City of Santa Fe - Harden Existing Critical Facilities and Infrastructure
FMS ID	06-53-0000000053
Sponsor Entity ID	06-01-0000003149
Sponsor Name	Santa Fe (Municipality)
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Infrastructure Projects
FMS Description	Harden existing critical facilities and infrastructure. Specifically City Hall, Maintenance Building, Library, and Community Center.
County	Galveston
Associated FME's	-
Associated FMP's	-
Emergency Need?	Yes
If yes, describe Emergency Need	
Drainage area (Est. sq-mi)	17.09
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	3,353	Structures at risk	2,282	Critical facilities at risk	13
Farm/ranch at risk (acres)	1,195.09	Impacted roadway miles	26.47		
Low water crossings	5	Total historical road closures	5		

100-Year Flood Risk Reduction

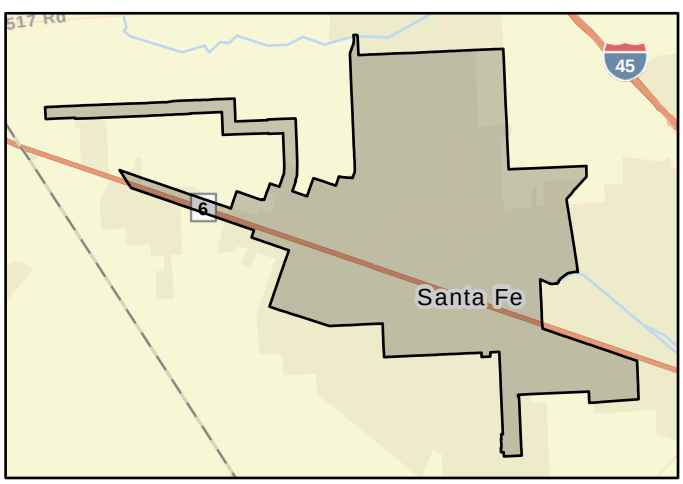
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Public Uplift			Residential removed	

Impacts

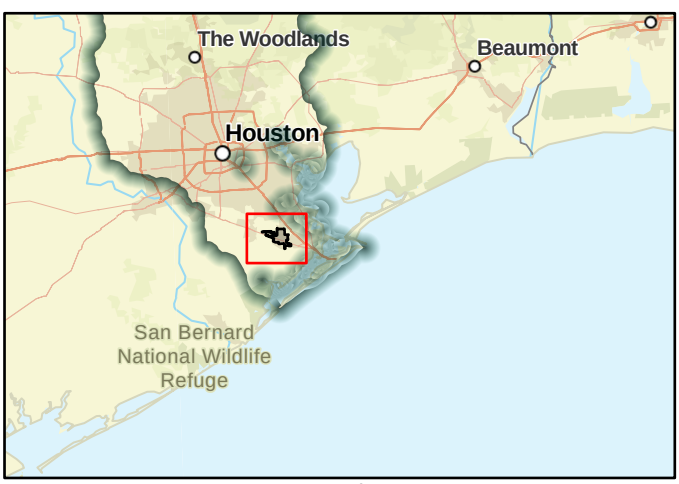
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$2,422,000	Non-recurring, non-capital cost (NRNC)	$121,100	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	City of Santa Fe - Drainage System Maintenance
FMS ID	06-53-0000000054
Sponsor Entity ID	06-01-0000003149
Sponsor Name	Santa Fe (Municipality)
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Infrastructure Projects
FMS Description	Keep areas of concern free of unnecessary debris as needed. Implement and maintain tree, vegetation trimming/removal near, infrastructure, drainage systems and roadside areas.
County	Galveston
Associated FME's	-
Associated FMP's	-
Emergency Need?	No
If yes, describe Emergency Need	
Drainage area (Est. sq-mi)	17.09
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	3,353	Structures at risk	2,282	Critical facilities at risk	13
Farm/ranch at risk (acres)	1,195.09	Impacted roadway miles	26.47		
Low water crossings	5	Total historical road closures	5		

100-Year Flood Risk Reduction

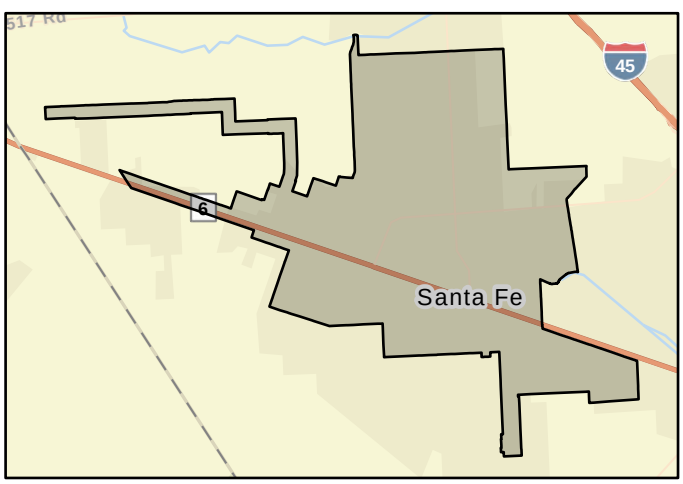
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Environmental			Residential removed	

Impacts

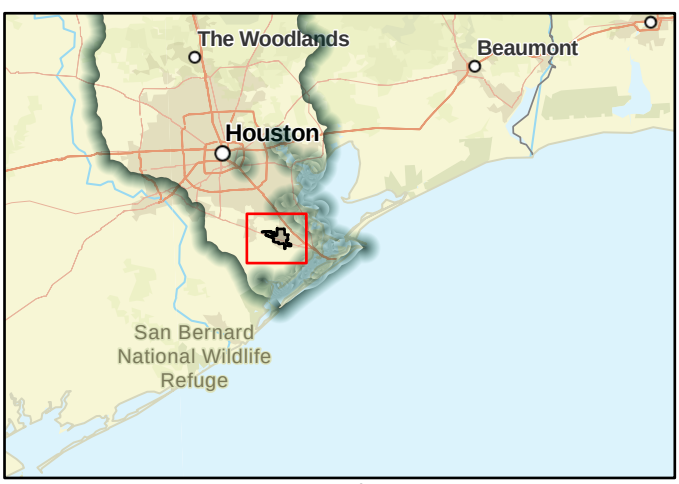
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$6,000	Non-recurring, non-capital cost (NRNC)	$300	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: Liberty County Floodplain Acquisition

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000055 | Sponsor Entity ID: 00-01-0000000033

Sponsor Name:

RFPG Recommend? Yes | Reason for Recommendation: Alignment with RFPG goals and TWDB guidance principles.

FMS Details

FMS Type: Property Acquisition and Structural Elevation

FMS Description: Acquisition of property in the floodplain.

County: Liberty | Associated FME's: - | Associated FMP's: -

Emergency Need? Yes | If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 667.08 | Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	155,271	Structures at risk	72,496	Critical facilities at risk	580
Farm/ranch at risk (acres)	31,059.39	Impacted roadway miles	1,424.54		
Low water crossings	72	Total historical road closures	72		

100-Year Flood Risk Reduction

Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0

Other benefits: Reduced NFIP claims, lower homeowner insurance costs, reduced displacement after flood | Residential removed:

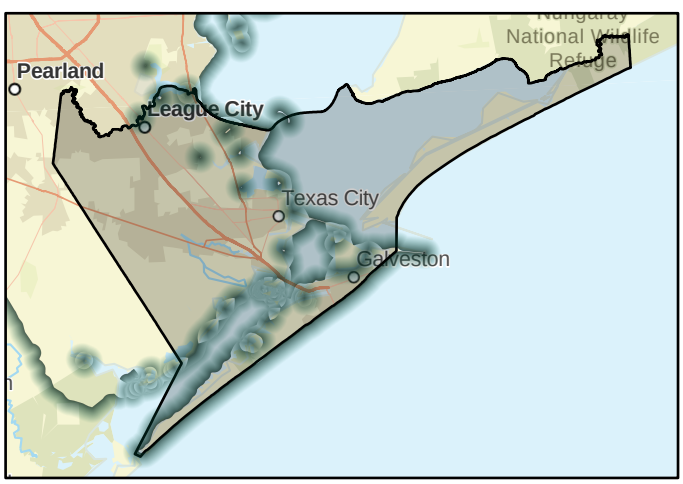
Impacts

Negative impact? No | Negative impact description: -

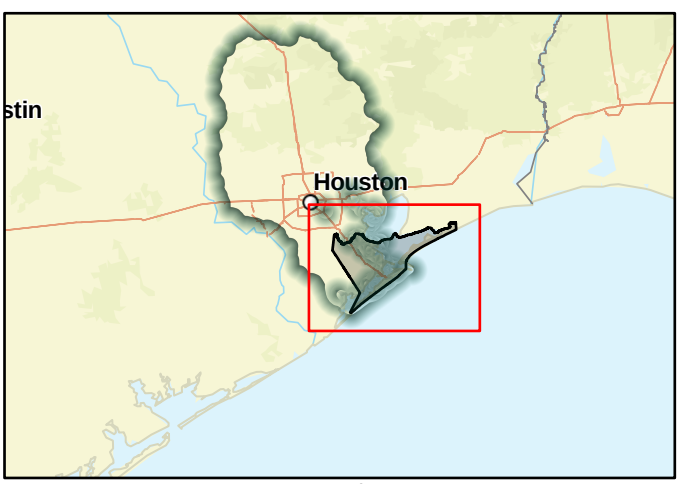
Water supply contributions? No | Water supply description: -

Estimated Cost(s)

Total FMS cost: $908,000 | Non-recurring, non-capital cost (NRNC): $45,400 | Percent Nature-Based: 0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	City of Galveston Floodplain Manager Increase
FMS ID	06-53-0000000056
Sponsor Entity ID	06-01-0000002809
Sponsor Name	Galveston (Municipality)
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Regulatory and Guidance
FMS Description	Increase and maintain number of floodplain managers in the building division through training and certification.
County	Galveston
Associated FME's	-
Associated FMP's	-
Emergency Need?	No
If yes, describe Emergency Need	
Drainage area (Est. sq-mi)	211.72
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	65,500	Structures at risk	22,641	Critical facilities at risk	204
Farm/ranch at risk (acres)	1,080.58	Impacted roadway miles	398.09		
Low water crossings	0	Total historical road closures	0		

100-Year Flood Risk Reduction

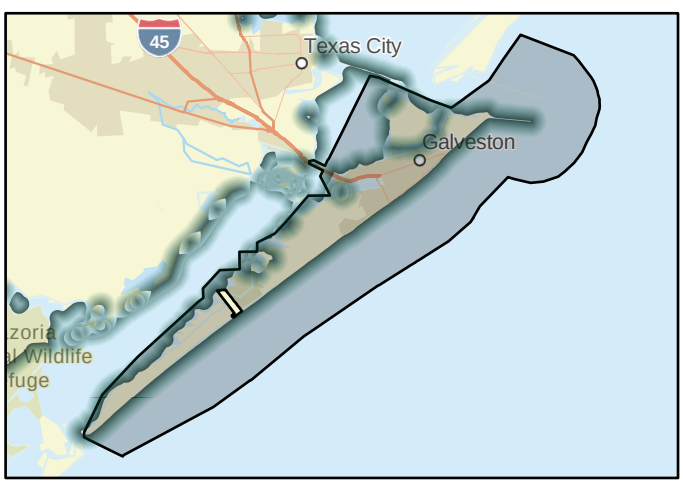
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Regulatory Compliance, Improved Community Assistance			Residential removed	

Impacts

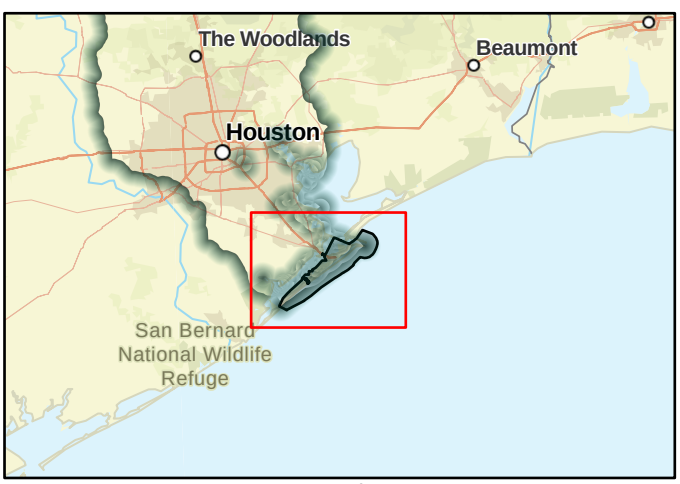
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$12,000	Non-recurring, non-capital cost (NRNC)	$600	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	City of Galveston SRL and RL Property Mitigation
FMS ID	06-53-0000000057
Sponsor Entity ID	06-01-0000002809
Sponsor Name	Galveston (Municipality)
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Property Acquisition and Structural Elevation
FMS Description	Elevation, acquisition or other mitigation of identified Repetitive Loss and Severe Repetitive Loss properties and structures damaged by flooding.

County	Galveston	Associated FME's	-
Associated FMP's	-		
Emergency Need?	Yes	If yes, describe Emergency Need	
Drainage area (Est. sq-mi)	211.72	Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	65,500	Structures at risk	22,641	Critical facilities at risk	204
Farm/ranch at risk (acres)	1,080.58	Impacted roadway miles	398.09		
Low water crossings	0	Total historical road closures	0		

100-Year Flood Risk Reduction

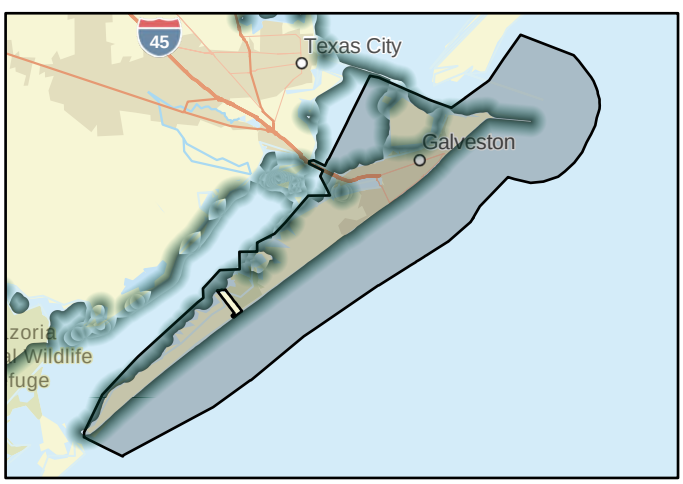
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Reduced NFIP claims, lower homeowner insurance costs, reduced displacement after flood			Residential removed	

Impacts

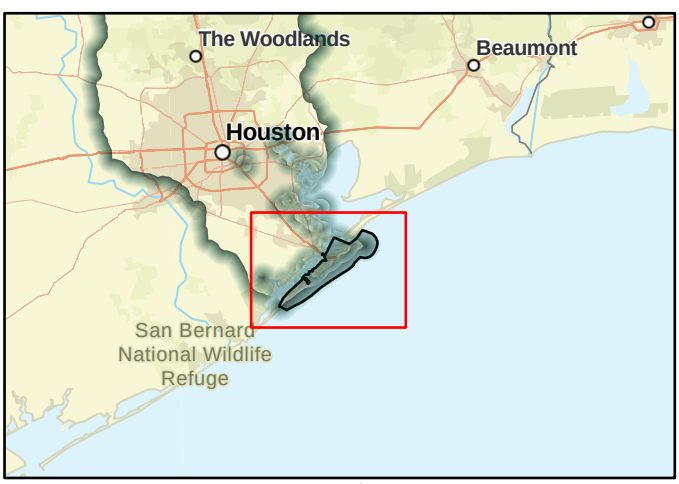
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$97,000	Non-recurring, non-capital cost (NRNC)	$4,800	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: City of Bunker Hill Village Non-Structural Mitigation Projects

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000058 | Sponsor Entity ID: 06-01-0000002856

Sponsor Name: Bunker Hill Village (Municipality)

RFPG Recommend?: Yes | Reason for Recommendation: Alignment with RFPG goals and TWDB guidance principles.

FMS Details

FMS Type: Other

FMS Description: Non-structural mitigation measure - buried powerlines, tree management and generators

County: Harris | Associated FME's: - | Associated FMP's: -

Emergency Need?: No | If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 1.44 | Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	1,231	Structures at risk	441	Critical facilities at risk	1
Farm/ranch at risk (acres)	0	Impacted roadway miles	10.68		
Low water crossings	0	Total historical road closures	0		

100-Year Flood Risk Reduction

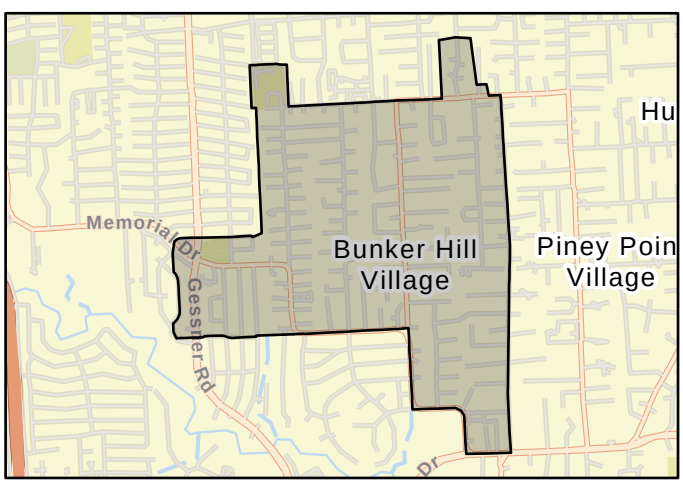
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Low Impact Development Features			Residential removed	

Impacts

Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$121,000	Non-recurring, non-capital cost (NRNC)	$6,100	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	Hardening of Critical Facilities in City of Mission Todd
FMS ID	06-53-0000000059
Sponsor Entity ID	06-01-0000003415
Sponsor Name	Todd Mission (Municipality)
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Infrastructure Projects
FMS Description	Protecting critical facilities such as hospitals, fire stations, police stations and water treatment plants can help keep them operational during severe storms.
County	Grimes
Associated FME's	-
Associated FMP's	-
Emergency Need?	Yes
If yes, describe Emergency Need	
Drainage area (Est. sq-mi)	2.01
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	11	Structures at risk	26	Critical facilities at risk	0
Farm/ranch at risk (acres)	95.29	Impacted roadway miles	0.06		
Low water crossings	0	Total historical road closures	0		

100-Year Flood Risk Reduction

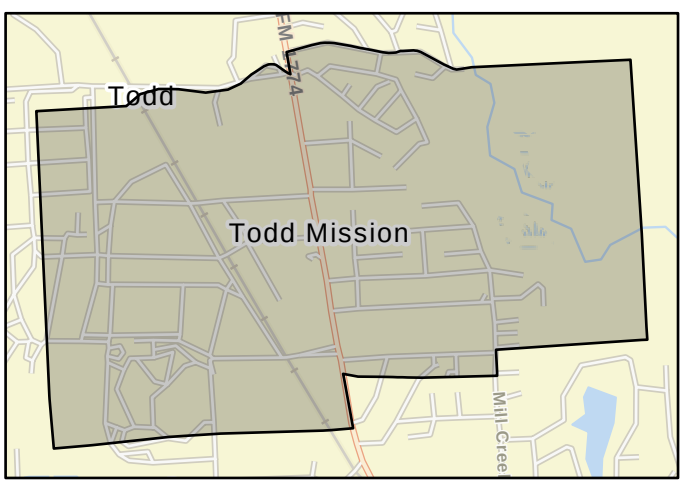
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Emergency Preparedness, Continuity of Essential Services			Residential removed	

Impacts

Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$30,000	Non-recurring, non-capital cost (NRNC)	$1,500	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	Harris County Mitigation Buyout and Relocation Program
FMS ID	06-53-0000000060
Sponsor Entity ID	00-01-0000000020
Sponsor Name	Harris County (County)
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Property Acquisition and Structural Elevation
FMS Description	This program is designed to assist owners whose properties were damaged by a natural disaster and or in an area that is designated hopelessly deep in the floodplain and repetitively flooded, to relocate outside the threat of flooding.
County	Harris
Associated FME's	-
Associated FMP's	-
Emergency Need?	Yes
If yes, describe Emergency Need	
Drainage area (Est. sq-mi)	1,770.82
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	590,954	Structures at risk	143,642	Critical facilities at risk	2,332
Farm/ranch at risk (acres)	-	Impacted roadway miles	-		
Low water crossings	89	Total historical road closures	89		

100-Year Flood Risk Reduction

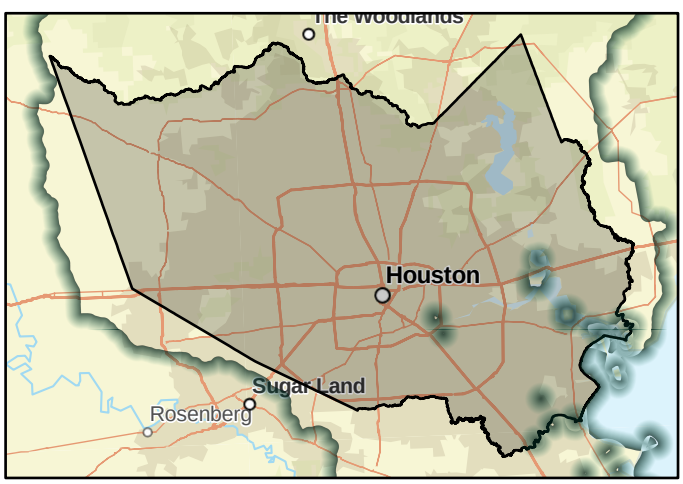
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Public Uplift			Residential removed	

Impacts

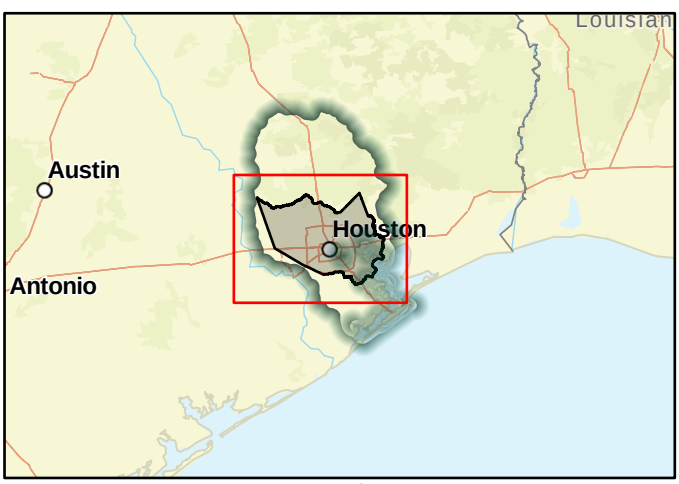
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$90,841,000	Non-recurring, non-capital cost (NRNC)	$4,542,100	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: City of Alvin Full Time Floodplain Administrator

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000061 | Sponsor Entity ID: 00-01-0000003020

Sponsor Name: Alvin (Municipality)

RFPG Recommend? Yes | Reason for Recommendation: Alignment with RFPG goals and TWDB guidance principles.

FMS Details

FMS Type: Regulatory and Guidance

FMS Description: Hire a full-time floodplain administrator who can support CRS application, NFIP, mapping and community floodplain support. A dedicated employee could help the community obtain CRS status and full time flood plain support.

County: Multiple | Associated FME's: - | Associated FMP's: -

Emergency Need? No | If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 25.17 | Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	3,407	Structures at risk	1,916	Critical facilities at risk	6
Farm/ranch at risk (acres)	1,940.61	Impacted roadway miles	40.63		
Low water crossings	3	Total historical road closures	3		

100-Year Flood Risk Reduction

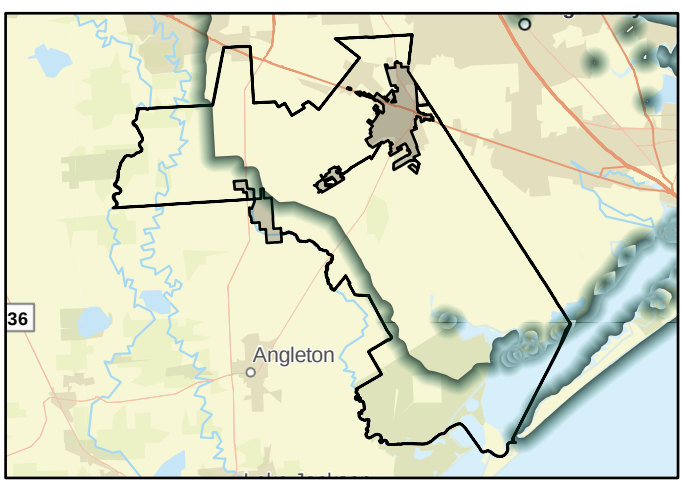
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Regulatory Compliance, Improved Community Assistance			Residential removed	

Impacts

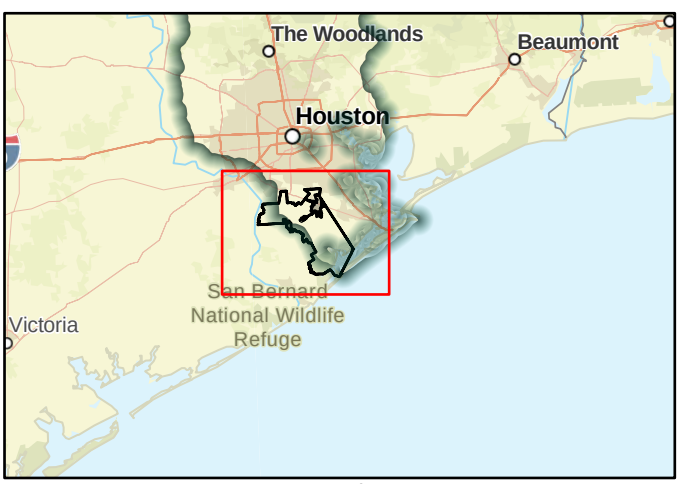
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$121,000	Non-recurring, non-capital cost (NRNC)	$6,100	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	City of Pearland SRL and RL Property Acquisition
FMS ID	06-53-0000000062
Sponsor Entity ID	06-01-0000002790
Sponsor Name	Pearland (Municipality)
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Property Acquisition and Structural Elevation
FMS Description	Continue working with County and State officials to identify repetitive loss and severe repetitive loss properties, and pursue mitigation projects to reduce risk.

County	Multiple	Associated FME's	-
Associated FMP's	-	Emergency Need?	Yes
If yes, describe Emergency Need		Drainage area (Est. sq-mi)	48.85
Assumptions/Relevant Context	N/A		

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	48,554	Structures at risk	17,760	Critical facilities at risk	145
Farm/ranch at risk (acres)	3,065.18	Impacted roadway miles	367.75		
Low water crossings	13	Total historical road closures	13		

100-Year Flood Risk Reduction

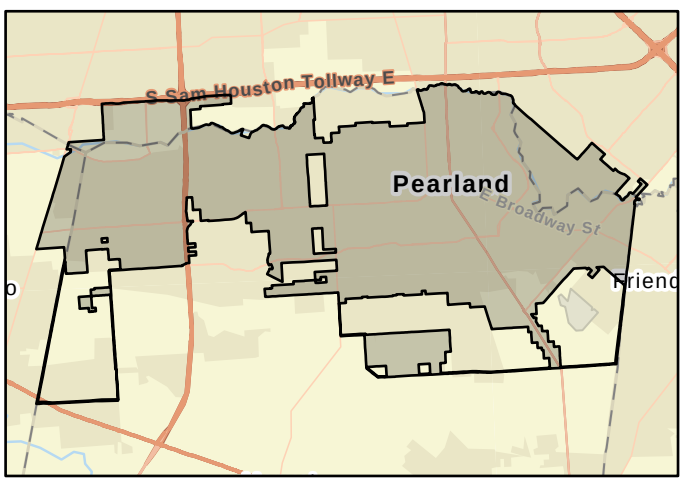
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Reduced NFIP claims, lower homeowner insurance costs, reduced displacement after flood			Residential removed	

Impacts

Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$121,000	Non-recurring, non-capital cost (NRNC)	$6,100	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: Harris County Wide Voluntary Buyout Program

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000063 | Sponsor Entity ID: 00-01-0000000310

Sponsor Name: Harris County Flood Control District (Flood District)

RFPG Recommend?: Yes | Reason for Recommendation: Alignment with RFPG goals and TWDB guidance principles.

FMS Details

FMS Type: Property Acquisition and Structural Elevation

FMS Description: Targeted home buyouts to reduce flood damages in areas several feet deep in the floodplain where structural projects to reduce flooding are not cost-effective and/or beneficial.

County: Harris | Associated FME's: - | Associated FMP's: -

Emergency Need?: Yes | If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 1,777.29 | Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	2,686,031	Structures at risk	565,507	Critical facilities at risk	6,219
Farm/ranch at risk (acres)	110,208.57	Impacted roadway miles	12,061.71		
Low water crossings	531	Total historical road closures	531		

100-Year Flood Risk Reduction

Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0

Other benefits: Reduced NFIP claims, lower homeowner insurance costs, reduced displacement after flood | Residential removed:

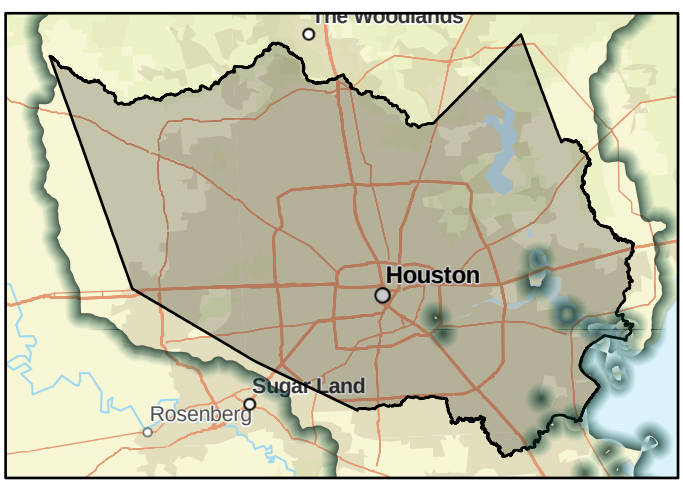
Impacts

Negative impact?: No | Negative impact description: -

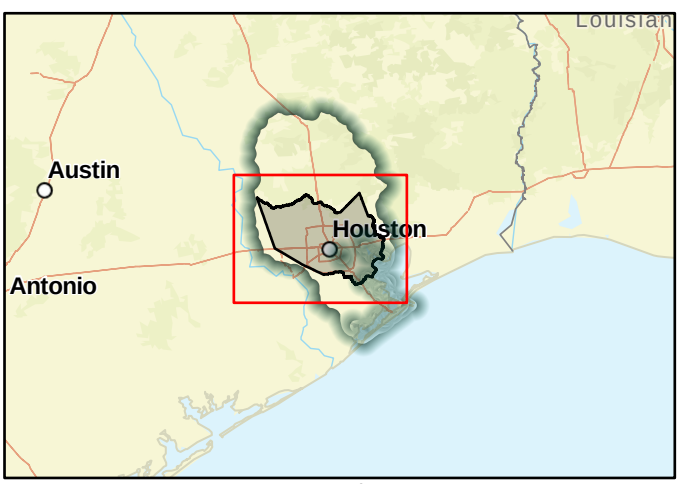
Water supply contributions?: No | Water supply description: -

Estimated Cost(s)

Total FMS cost: $605,607,000 | Non-recurring, non-capital cost (NRNC): $30,280,400 | Percent Nature-Based: 0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	Mitigate Repetitive Flood Claim & Severe Repetitive Loss Properties in Galveston County
FMS ID	06-53-0000000064
Sponsor Entity ID	00-01-0000000006
Sponsor Name	Galveston County (County)
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Property Acquisition and Structural Elevation
FMS Description	Grant funding through HMGP may be used to mitigate RFC and SRL properties. Mitigation option will be implemented with property owners as funding and opportunities arise.
County	Galveston
Associated FME's	-
Associated FMP's	-
Emergency Need?	No
If yes, describe Emergency Need	
Drainage area (Est. sq-mi)	14.28
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	4,426	Structures at risk	2,718	Critical facilities at risk	25
Farm/ranch at risk (acres)	811.02	Impacted roadway miles	65.67		
Low water crossings	9	Total historical road closures	9		

100-Year Flood Risk Reduction

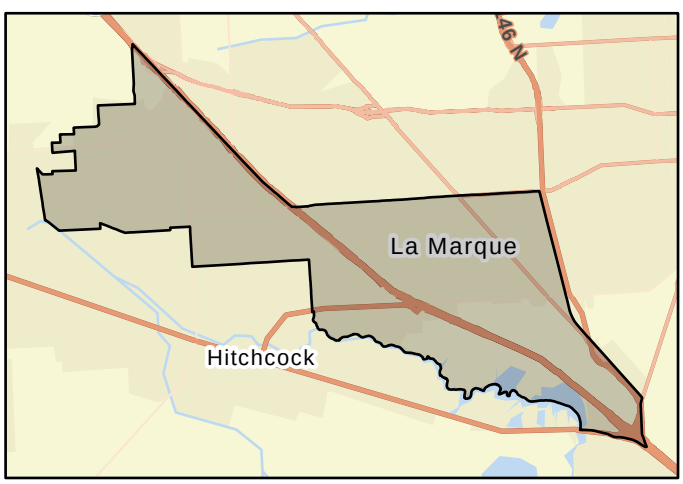
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Reduced NFIP claims, lower homeowner insurance costs, reduced displacement after flood			Residential removed	

Impacts

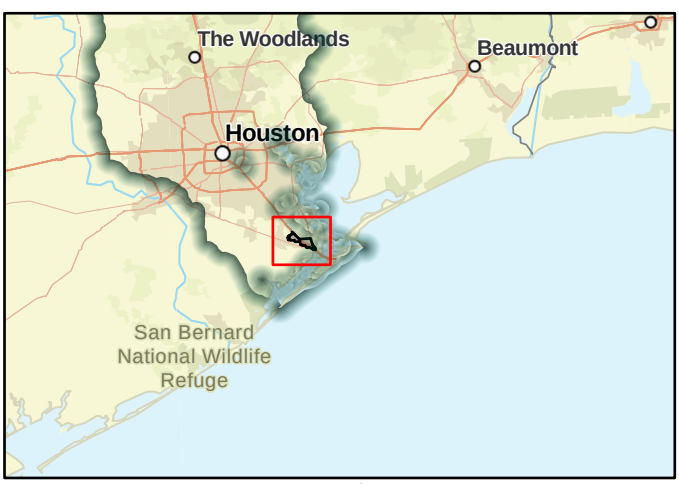
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$36,336,000	Non-recurring, non-capital cost (NRNC)	$1,816,800	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	Liberty County Regional Coordination
FMS ID	06-53-0000000065
Sponsor Entity ID	00-01-0000000033
Sponsor Name	Liberty County (County)
RFPG Recommend?	Yes
Reason for Recommendation	Alignment with RFPG goals and TWDB guidance principles.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Other
FMS Description	Work with adjoining counties regarding flooding and drainage issues.
County	Liberty
Associated FME's	-
Associated FMP's	-
Emergency Need?	No
If yes, describe Emergency Need	
Drainage area (Est. sq-mi)	1,174.46
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	9,818	Structures at risk	8,636	Critical facilities at risk	30
Farm/ranch at risk (acres)	41,660.55	Impacted roadway miles	360.94		
Low water crossings	18	Total historical road closures	18		

100-Year Flood Risk Reduction

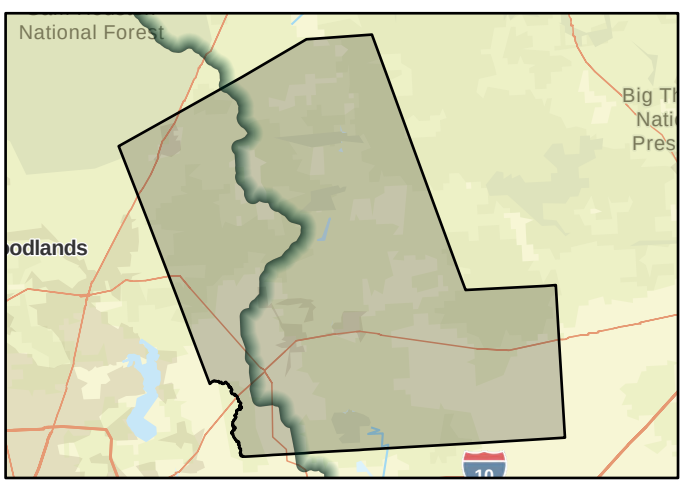
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Regional Coordination			Residential removed	

Impacts

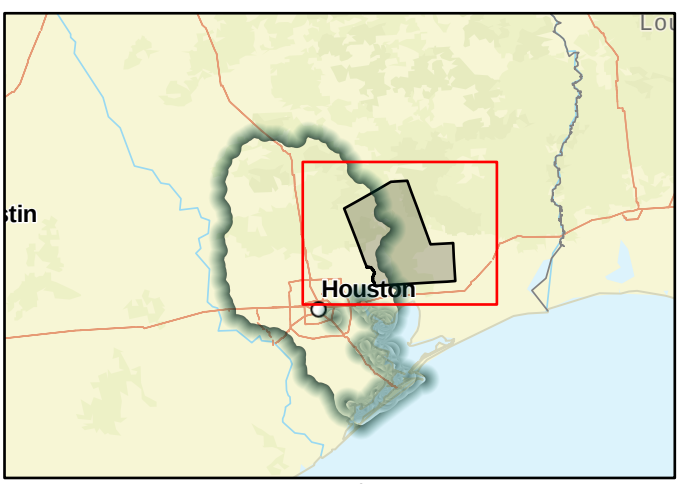
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$606,000	Non-recurring, non-capital cost (NRNC)	$30,300	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: Chambers County Flood Model and Map Management System

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000071 | Sponsor Entity ID: 00-01-0000000013

Sponsor Name: Chambers County (County)

RFPG Recommend?: Yes | Reason for Recommendation: Approved as part of 2nd Amendment in March 2025 by RFPG for alignment with RFPG

FMS Details

FMS Type: Regulatory and Guidance

FMS Description: Develop and implement a web-based system to manage flood models and mapping and regulate future development.

County: Chambers | Associated FME's: - | Associated FMP's: -

Emergency Need?: No | If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 53.78 | Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	4,495	Structures at risk	1,459	Critical facilities at risk	26
Farm/ranch at risk (acres)	4,888.87	Impacted roadway miles	44.14		
Low water crossings	2	Total historical road closures	2		

100-Year Flood Risk Reduction

Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0

Other benefits: Public Education, Regulatory Compliance | Residential removed:

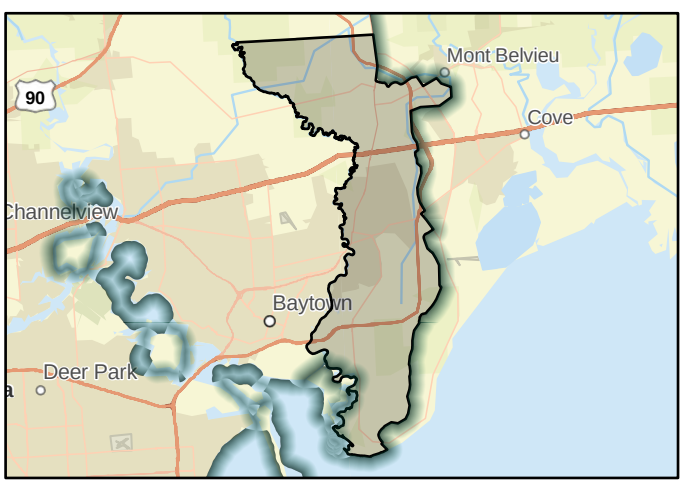
Impacts

Negative impact?: No | Negative impact description: -

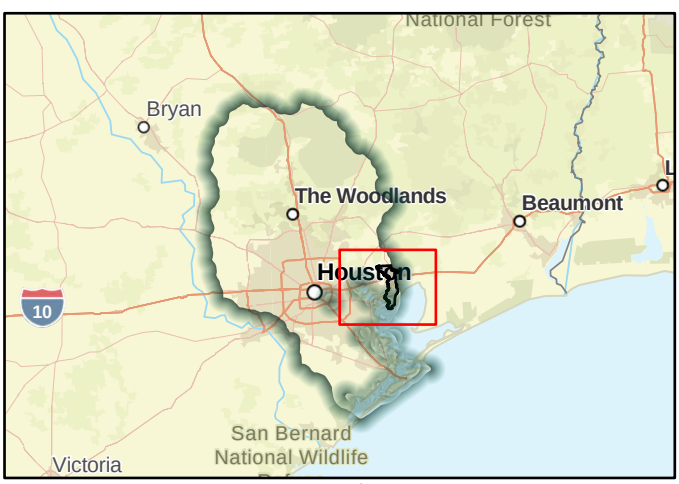
Water supply contributions?: No | Water supply description: -

Estimated Cost(s)

Total FMS cost: $44,000 | Non-recurring, non-capital cost (NRNC): $2,200 | Percent Nature-Based: 0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: Chambers County Property Acquisition

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000072 | Sponsor Entity ID: 00-01-0000000013

Sponsor Name: Chambers County (County)

RFPG Recommend?: Yes | Reason for Recommendation: Approved as part of 2nd Amendment in March 2025 by RFPG for alignment with RFPG

FMS Details

FMS Type: Regulatory and Guidance

FMS Description: This flood management strategy proposes that funds be established for Chambers County to implement a county-wide voluntary property acquisition program for structures located within the 100-year floodplain or the floodway of an existing watercourse.

County: Chambers | Associated FME's: - | Associated FMP's: -

Emergency Need?: No | If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 53.78 | Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	4,495	Structures at risk	1,459	Critical facilities at risk	26
Farm/ranch at risk (acres)	4,888.87	Impacted roadway miles	44.14		
Low water crossings	2	Total historical road closures	2		

100-Year Flood Risk Reduction

Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0

Other benefits: Potential to encourage development of public spaces and revitalization efforts | Residential removed:

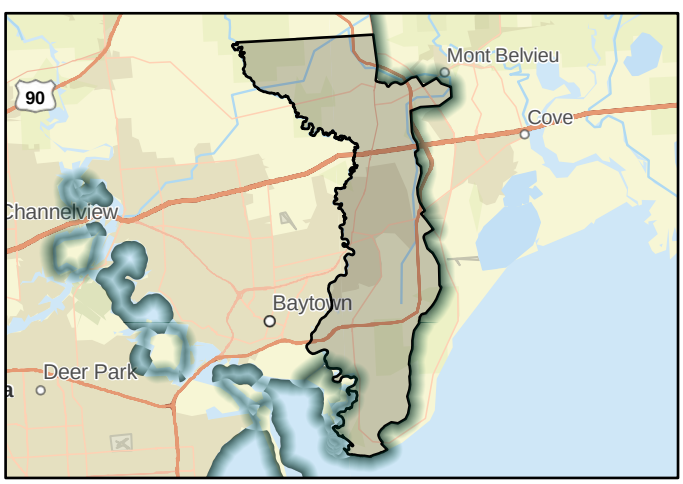
Impacts

Negative impact?: No | Negative impact description: -

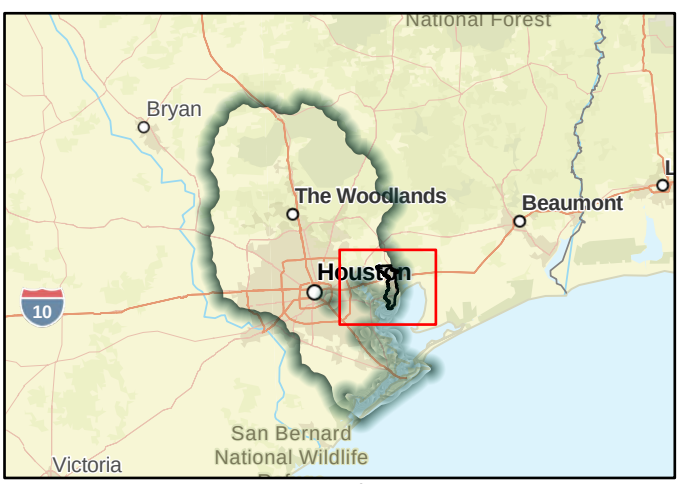
Water supply contributions?: No | Water supply description: -

Estimated Cost(s)

Total FMS cost: $436,000 | Non-recurring, non-capital cost (NRNC): $21,800 | Percent Nature-Based: 0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: Chambers County Drainage Criteria Manual Update

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000073 | Sponsor Entity ID: 00-01-0000000013

Sponsor Name: Chambers County (County)

RFPG Recommend?: Yes | Reason for Recommendation: Approved as part of 2nd Amendment in March 2025 by RFPG for alignment with RFPG

FMS Details

FMS Type: Regulatory and Guidance

FMS Description: Update Drainage Criteria Manual for the County to minimize and eliminate the possibility of future development adversely impacting downstream communities.

County: Chambers | Associated FME's: - | Associated FMP's: 06-52-0000000152

Emergency Need?: No | If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 53.78 | Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	4,495	Structures at risk	1,459	Critical facilities at risk	26
Farm/ranch at risk (acres)	4,888.87	Impacted roadway miles	44.14		
Low water crossings	2	Total historical road closures	2		

100-Year Flood Risk Reduction

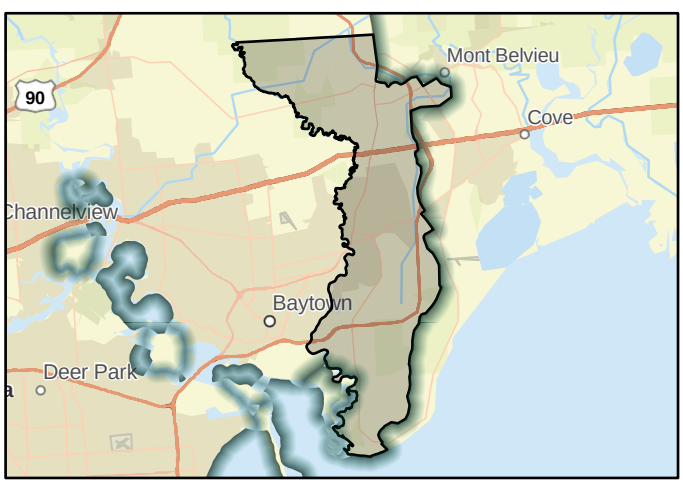
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Regulatory Compliance			Residential removed	

Impacts

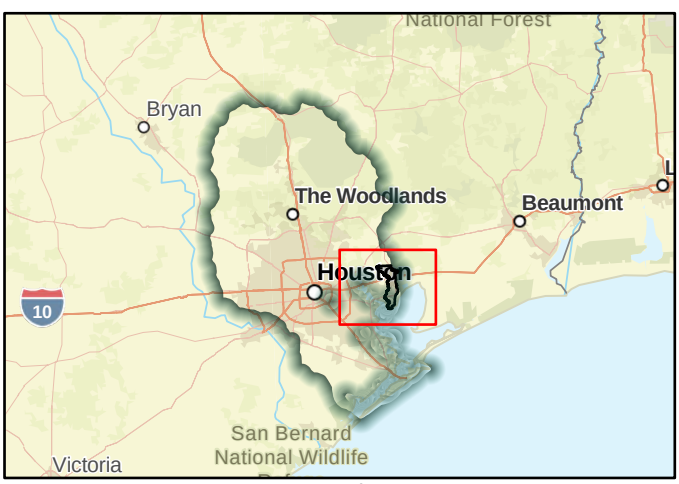
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$154,000	Non-recurring, non-capital cost (NRNC)	$7,700	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	West Fork San Jacinto River floodplain preservation
FMS ID	06-53-0000000074
Sponsor Entity ID	06-01-0000003603
Sponsor Name	Bayou Land Conservancy (Other)
RFPG Recommend?	Yes
Reason for Recommendation	Approved as part of 2nd Amendment in March 2025 by RFPG for alignment with RFPG

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Other
FMS Description	Partnerships to acquire/place conservation easements on high-quality floodplain parcels upstream of the West Fork San Jacinto River. This pre-disaster strategy enhances resilience and floodplain function per ASFPM best practices.

County	Montgomery	Associated FME's	-	Associated FMP's	-
Emergency Need?	No	If yes, describe Emergency Need			
Drainage area (Est. sq-mi)	215.78	Assumptions/Relevant Context	N/A		

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	35,376	Structures at risk	14,016	Critical facilities at risk	145
Farm/ranch at risk (acres)	8,847.31	Impacted roadway miles	400.76		
Low water crossings	16	Total historical road closures	16		

100-Year Flood Risk Reduction

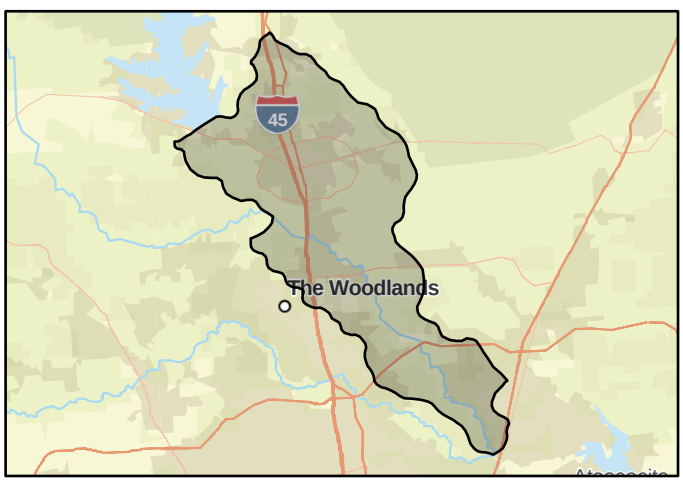
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Environmental			Residential removed	

Impacts

Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$49,041,000	Non-recurring, non-capital cost (NRNC)	$2,452,000	Percent Nature-Based	100%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Title	Spring Creek floodplain preservation
FMS ID	06-53-0000000075
Sponsor Entity ID	06-01-0000003603
Sponsor Name	Bayou Land Conservancy (Other)
RFPG Recommend?	Yes
Reason for Recommendation	Approved as part of 2nd Amendment in March 2025 by RFPG for alignment with RFPG

FMS Details

FMS Type	Other
FMS Description	Partnerships to acquire/place conservation easements on high-quality floodplain parcels below Lake Conroe and upstream of Spring Creek. This pre-disaster strategy enhances resilience and floodplain function per ASFPM best practices.
County	Multiple
Associated FME's	-
Associated FMP's	-
Emergency Need?	No
If yes, describe Emergency Need	
Drainage area (Est. sq-mi)	452.91
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	68,057	Structures at risk	21,853	Critical facilities at risk	151
Farm/ranch at risk (acres)	26,340.05	Impacted roadway miles	523.63		
Low water crossings	62	Total historical road closures	62		

100-Year Flood Risk Reduction

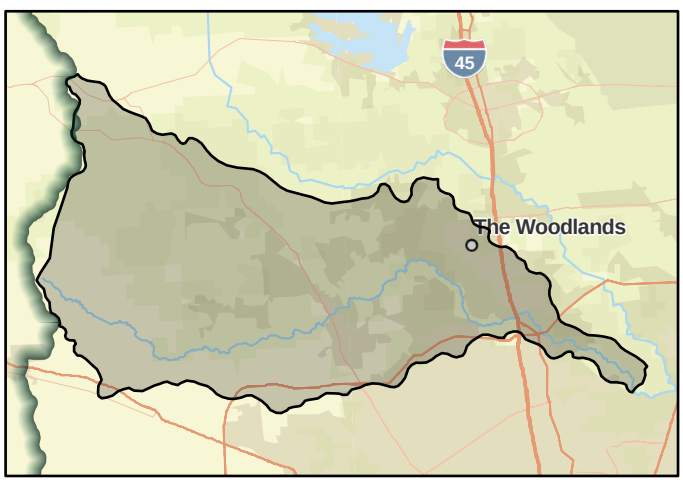
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Environmental			Residential removed	

Impacts

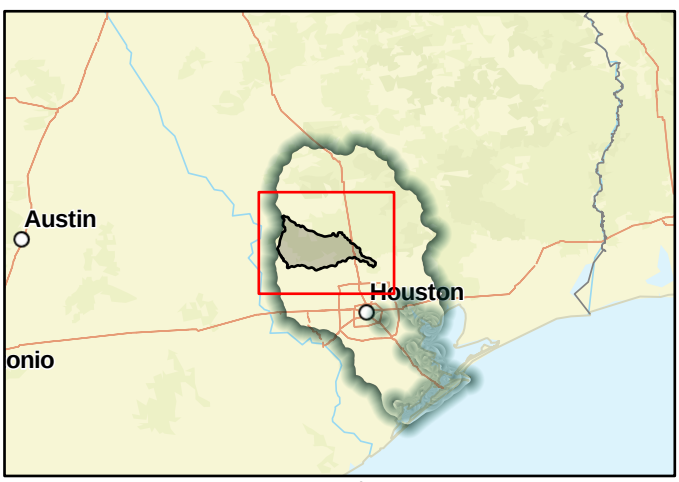
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$39,845,000	Non-recurring, non-capital cost (NRNC)	$1,992,300	Percent Nature-Based	100%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Title	Lake Creek floodplain preservation		
FMS ID	06-53-0000000076	Sponsor Entity ID	06-01-0000003603
Sponsor Name	Bayou Land Conservancy (Other)		
RFPG Recommend?	Yes	Reason for Recommendation	Approved as part of 2nd Amendment in March 2025 by RFPG for alignment with RFPG

FMS Details

FMS Type	Other
FMS Description	Partnerships to acquire/place conservation easements on high-quality floodplain parcels upstream of the West Fork San Jacinto River. This pre-disaster strategy enhances resilience and floodplain function per ASFPM best practices.

County	Multiple	Associated FME's	-	Associated FMP's	-
Emergency Need?	No	If yes, describe Emergency Need			
Drainage area (Est. sq-mi)	327.13	Assumptions/Relevant Context	N/A		

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	2,273	Structures at risk	1,944	Critical facilities at risk	2
Farm/ranch at risk (acres)	20,643.15	Impacted roadway miles	65.57		
Low water crossings	11	Total historical road closures	11		

100-Year Flood Risk Reduction

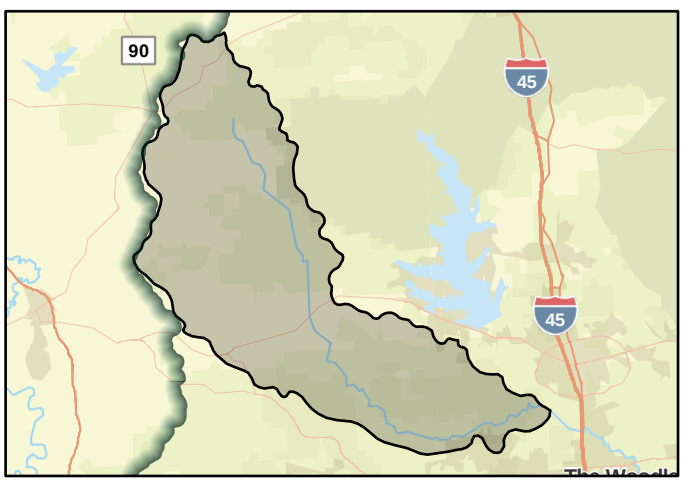
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Environmental			Residential removed	

Impacts

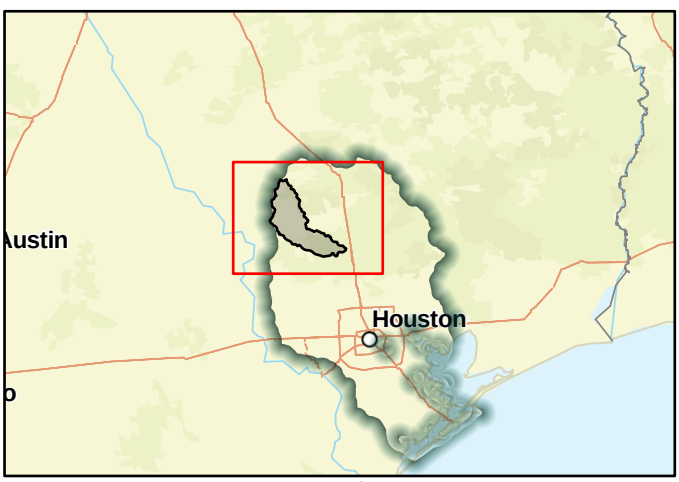
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$52,105,000	Non-recurring, non-capital cost (NRNC)	$2,605,300	Percent Nature-Based	100%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	Updates to San Jacinto River Authority Lake Conroe Reservoir Forecast Tool
FMS ID	06-53-0000000077
Sponsor Entity ID	00-01-0000000287
Sponsor Name	San Jacinto River Authority (River Authority)
RFPG Recommend?	Yes
Reason for Recommendation	Approved as part of 2nd Amendment in March 2025 by RFPG for alignment with RFPG

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Flood Measurement and Warning
FMS Description	Update to forecasting tool, including the incorporation of latest modeling analyses and methodologies, latest software, additional stream gauge data, and/or other improvements to increase accuracy and accessibility.

County	Multiple	Associated FME's	-	Associated FMP's	-
Emergency Need?	No	If yes, describe Emergency Need			
Drainage area (Est. sq-mi)	450.03	Assumptions/Relevant Context	N/A		

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	11,603	Structures at risk	5,660	Critical facilities at risk	24
Farm/ranch at risk (acres)	15,541.45	Impacted roadway miles	76.09		
Low water crossings	25	Total historical road closures	25		

100-Year Flood Risk Reduction

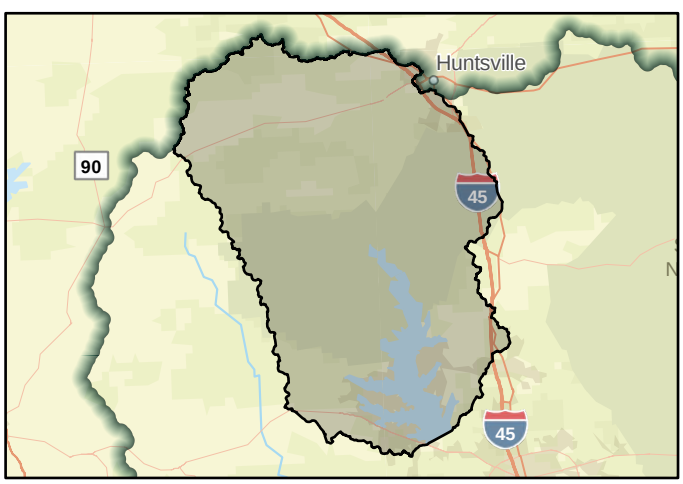
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Emergency Preparedness			Residential removed	

Impacts

Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$320,000	Non-recurring, non-capital cost (NRNC)	$16,000	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	San Jacinto River Watershed Gage Network Expansion
FMS ID	06-53-0000000078
Sponsor Entity ID	00-01-0000000287
Sponsor Name	San Jacinto River Authority (River Authority)
RFPG Recommend?	Yes
Reason for Recommendation	Approved as part of 2nd Amendment in March 2025 by RFPG for alignment with RFPG

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Flood Measurement and Warning
FMS Description	Install up to 42 rain/stream gages in Montgomery, Waller, Grimes, Walker, San Jacinto, and Liberty counties to enhance flood warning in the San Jacinto River Watershed.

County	Multiple	Associated FME's	-	Associated FMP's	-
Emergency Need?	No	If yes, describe Emergency Need			
Drainage area (Est. sq-mi)	2,388.08	Assumptions/Relevant Context	N/A		

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	76,613	Structures at risk	27,280	Critical facilities at risk	130
Farm/ranch at risk (acres)	-	Impacted roadway miles	-		
Low water crossings	102	Total historical road closures	102		

100-Year Flood Risk Reduction

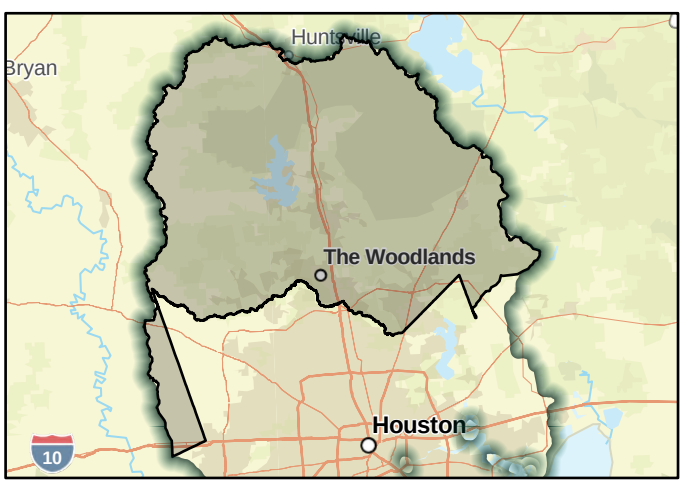
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Emergancy Preperadness			Residential removed	

Impacts

Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$1,296,000	Non-recurring, non-capital cost (NRNC)	$64,800	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	Harris County Community Based Catastrophe Insurance
FMS ID	06-53-0000000079
Sponsor Entity ID	00-01-0000000310
Sponsor Name	Harris County Flood Control District (Flood District)
RFPG Recommend?	Yes
Reason for Recommendation	Approved as part of 2nd Amendment in March 2025 by RFPG for alignment with RFPG

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Regulatory and Guidance
FMS Description	Community Based Catastrophe Insurance to reduce impact of flood damages in areas several feet deep in the floodplain where structural projects to reduce flooding are not cost effective

County	Harris	Associated FME's	-	Associated FMP's	-
Emergency Need?	Yes	If yes, describe Emergency Need			
Drainage area (Est. sq-mi)	1,768.51	Assumptions/Relevant Context	N/A		

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	976,848	Structures at risk	143,588	Critical facilities at risk	2,132
Farm/ranch at risk (acres)	-	Impacted roadway miles	-		
Low water crossings	84	Total historical road closures	84		

100-Year Flood Risk Reduction

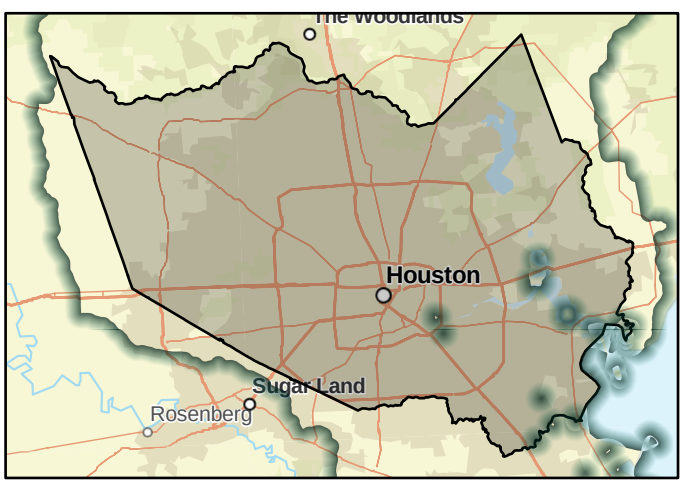
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Financial Resilience			Residential removed	

Impacts

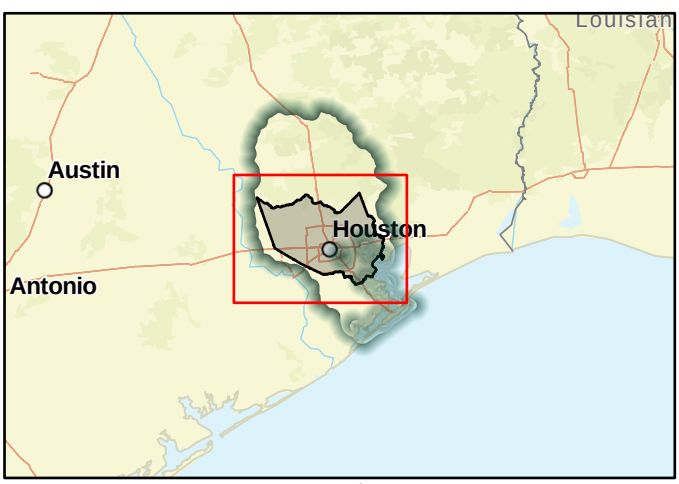
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$1,533,000	Non-recurring, non-capital cost (NRNC)	$76,700	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	Harris County Flood Control District's Flood Warning System
FMS ID	06-53-0000000080
Sponsor Entity ID	00-01-0000000310
Sponsor Name	Harris County Flood Control District (Flood District)
RFPG Recommend?	Yes
Reason for Recommendation	Approved as part of 2nd Amendment in March 2025 by RFPG for alignment with RFPG

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Flood Measurement and Warning
FMS Description	The Harris County Flood Control District's Flood Warning System relies on 188 gage stations strategically placed throughout Harris County bayous and their tributaries that contain sensors that transmit flows and water levels during times of heavy rain

County	Harris	Associated FME's	-	Associated FMP's	-
Emergency Need?	No	If yes, describe Emergency Need			
Drainage area (Est. sq-mi)	1,768.51	Assumptions/Relevant Context	N/A		

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	976,848	Structures at risk	143,588	Critical facilities at risk	2,132
Farm/ranch at risk (acres)	-	Impacted roadway miles	-		
Low water crossings	84	Total historical road closures	84		

100-Year Flood Risk Reduction

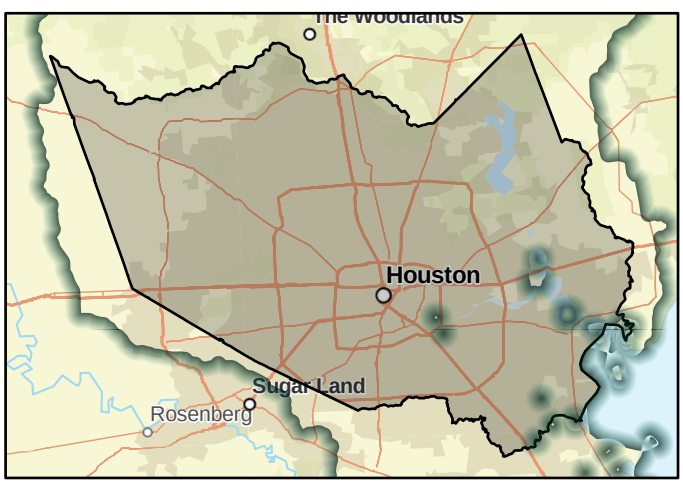
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	0
Other benefits	Public Safety			Residential removed	

Impacts

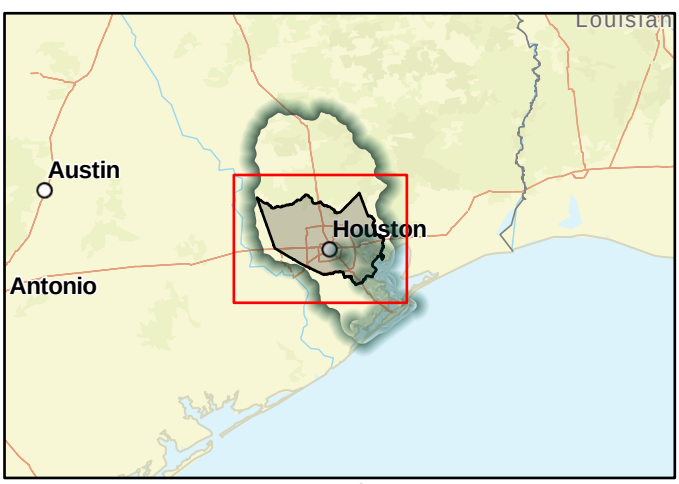
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$1,278,000	Non-recurring, non-capital cost (NRNC)	$63,900	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: City of Houston Green Infrastructure Program

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000081 Sponsor Entity ID: 00-01-0000002853

Sponsor Name: Houston (Municipality)

RFPG Recommend?: - Reason for Recommendation: -

FMS Details

FMS Type: Regulatory and Guidance

FMS Description: Establish, adopt, and implement a "green infrastructure" program for parks, nature preserves, greenbelts, etc.

County: Multiple Associated FME's: - Associated FMP's: -

Emergency Need?: No If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 671.68 Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	1,972,920	Structures at risk	288,699	Critical facilities at risk	3,740
Farm/ranch at risk (acres)	10,087.42	Impacted roadway miles	6,224.02		
Low water crossings	373	Total historical road closures	373		

100-Year Flood Risk Reduction

Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	-
Other benefits	Environmental			Residential removed	

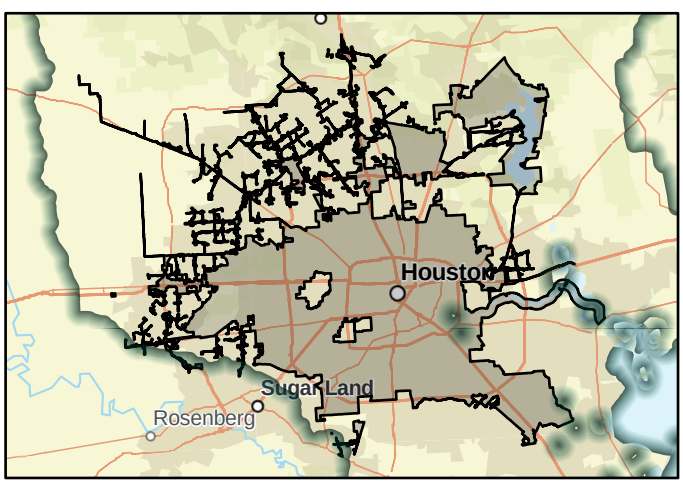
Impacts

Negative impact?: No Negative impact description: -

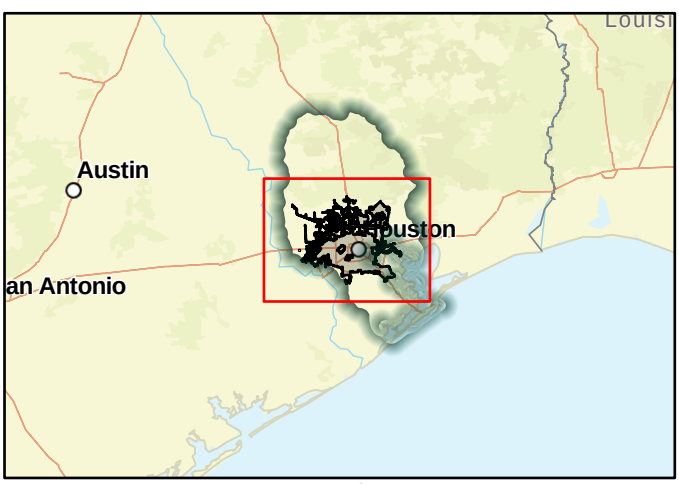
Water supply contributions?: No Water supply description: -

Estimated Cost(s)

Total FMS cost: $10,000 Non-recurring, non-capital cost (NRNC): $500 Percent Nature-Based: 100%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: City of Houston Open Space Preservation

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000082 | Sponsor Entity ID: 00-01-0000002853

Sponsor Name: Houston (Municipality)

RFPG Recommend?: - | Reason for Recommendation: -

FMS Details

FMS Type: Property Acquisition and Structural Elevation

FMS Description: Acquire and preserve open spaces adjacent to floodplain areas.

County: Multiple | Associated FME's: - | Associated FMP's: -

Emergency Need?: No | If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 671.68 | Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	1,972,920	Structures at risk	288,699	Critical facilities at risk	3,740
Farm/ranch at risk (acres)	10,087.42	Impacted roadway miles	6,224.02		
Low water crossings	373	Total historical road closures	373		

100-Year Flood Risk Reduction

Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	-
Other benefits	Environmental, Recreation			Residential removed	

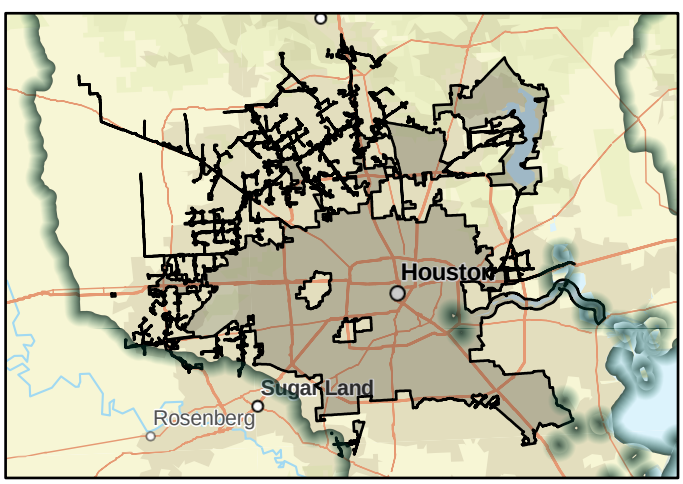
Impacts

Negative impact?: No | Negative impact description: -

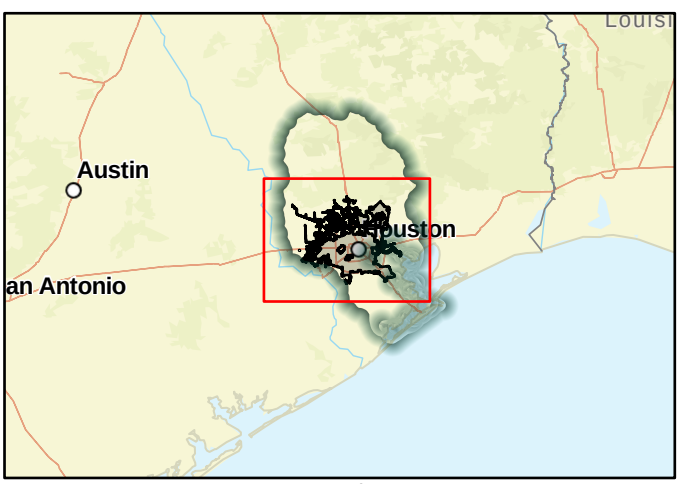
Water supply contributions?: No | Water supply description: -

Estimated Cost(s)

Total FMS cost: $1,000,000 | Non-recurring, non-capital cost (NRNC): $50,000 | Percent Nature-Based: 100%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: City of Houston- Harden Sewage Lift Stations

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000083 Sponsor Entity ID: 00-01-0000002853

Sponsor Name: Houston (Municipality)

RFPG Recommend?: - Reason for Recommendation: -

FMS Details

FMS Type: Property Acquisition and Structural Elevation

FMS Description: Raise electrical components of sewage lift stations above the Base Flood Elevation (BFE).

County: Multiple Associated FME's: - Associated FMP's: -

Emergency Need?: No If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 671.68 Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	1,972,920	Structures at risk	288,699	Critical facilities at risk	3,740
Farm/ranch at risk (acres)	10,087.42	Impacted roadway miles	6,224.02		
Low water crossings	373	Total historical road closures	373		

100-Year Flood Risk Reduction

Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	-
Other benefits	Public Health			Residential removed	

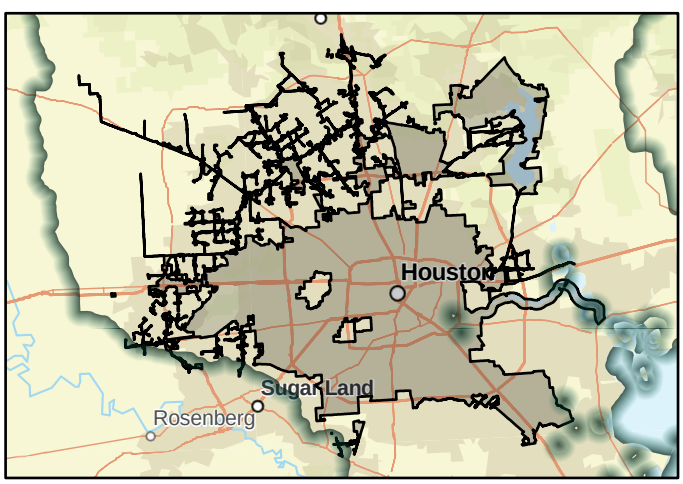
Impacts

Negative impact?: No Negative impact description: -

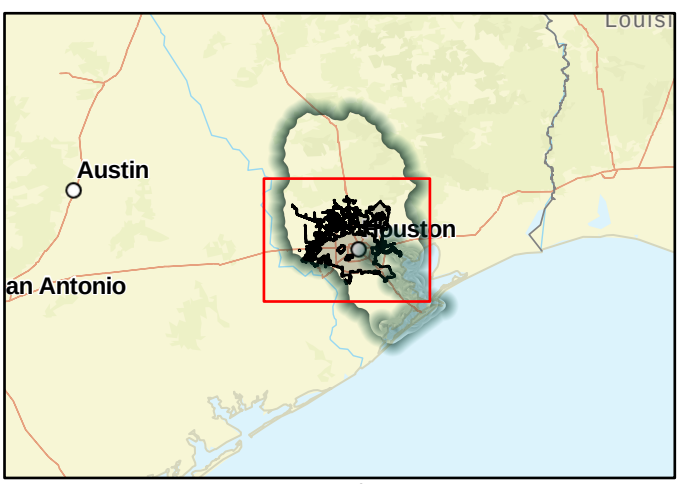
Water supply contributions?: No Water supply description: -

Estimated Cost(s)

Total FMS cost: $250,000 Non-recurring, non-capital cost (NRNC): $12,500 Percent Nature-Based: 0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	City of Houston Workorder Management System
FMS ID	06-53-0000000084
Sponsor Entity ID	00-01-0000002853
Sponsor Name	Houston (Municipality)
RFPG Recommend?	-
Reason for Recommendation	-

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Other
FMS Description	Workorder Management System: Upgrade existing route management software to install and integrate a system to track the flow of service requests during extreme weather events.
County	Multiple
Associated FME's	-
Associated FMP's	-
Emergency Need?	No
If yes, describe Emergency Need	
Drainage area (Est. sq-mi)	671.68
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	1,972,920	Structures at risk	288,699	Critical facilities at risk	3,740
Farm/ranch at risk (acres)	10,087.42	Impacted roadway miles	6,224.02		
Low water crossings	373	Total historical road closures	373		

100-Year Flood Risk Reduction

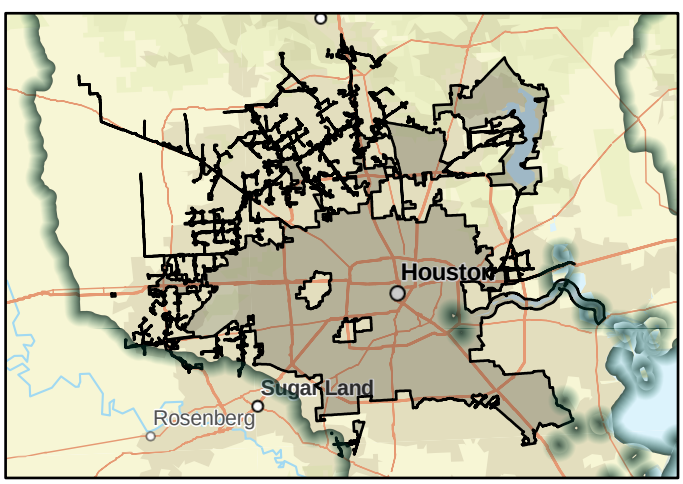
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	-
Other benefits	Operational Efficiency			Residential removed	

Impacts

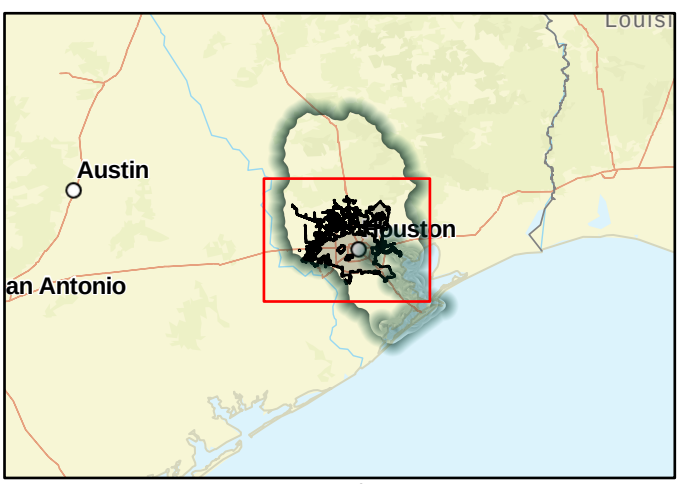
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$1,000,000	Non-recurring, non-capital cost (NRNC)	$50,000	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: City of Houston- Harden Existing Critical Facilities

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000085 Sponsor Entity ID: 00-01-0000002853

Sponsor Name: Houston (Municipality)

RFPG Recommend?: - Reason for Recommendation: -

FMS Details

FMS Type: Property Acquisition and Structural Elevation

FMS Description: Relocating fire stations from the flood plain. Harden/retrofit critical facilities to hazard-resistant levels, Kingwood area

County: Multiple Associated FME's: - Associated FMP's: -

Emergency Need?: No If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 43.28 Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	26,591	Structures at risk	8,747	Critical facilities at risk	67
Farm/ranch at risk (acres)	961.27	Impacted roadway miles	230.82		
Low water crossings	7	Total historical road closures	7		

100-Year Flood Risk Reduction

Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	-

Other benefits: Emergency Preparedness, Infrastructure Reliability, Continuity of Essential Services Residential removed:

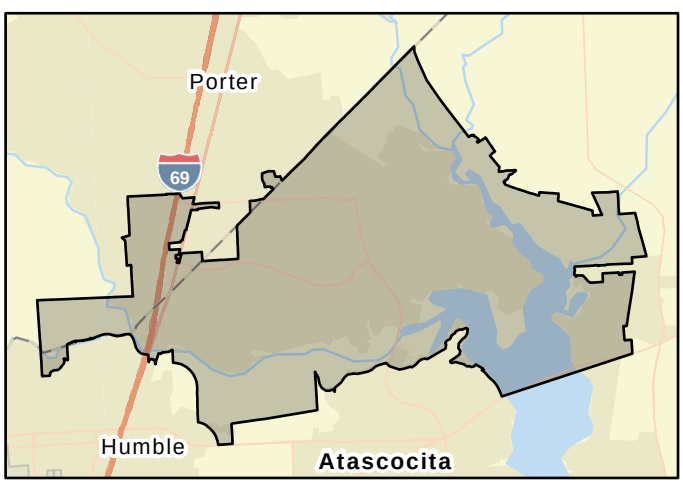
Impacts

Negative impact?: No Negative impact description: -

Water supply contributions?: No Water supply description: -

Estimated Cost(s)

Total FMS cost: $22,000,000 Non-recurring, non-capital cost (NRNC): $1,100,000 Percent Nature-Based: 0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	City of Houston Retention Pond Ordinance
FMS ID	06-53-0000000086
Sponsor Entity ID	00-01-0000002853
Sponsor Name	Houston (Municipality)
RFPG Recommend?	-
Reason for Recommendation	-

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Regulatory and Guidance
FMS Description	Adopt an ordinance to require retention ponds in all new developments and to validate retention ponds in existing high-risk flood areas.
County	Multiple
Associated FME's	-
Associated FMP's	-
Emergency Need?	No
If yes, describe Emergency Need	
Drainage area (Est. sq-mi)	671.68
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	1,972,920	Structures at risk	288,699	Critical facilities at risk	3,740
Farm/ranch at risk (acres)	10,087.42	Impacted roadway miles	6,224.02		
Low water crossings	373	Total historical road closures	373		

100-Year Flood Risk Reduction

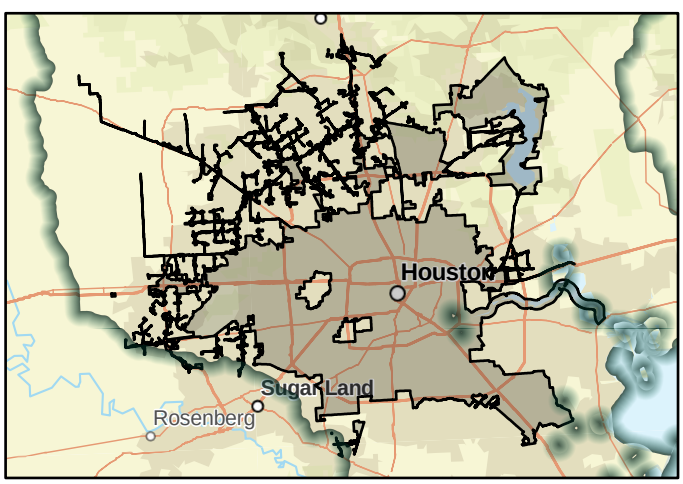
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	-
Other benefits	Environmental, Improved Development Standards			Residential removed	

Impacts

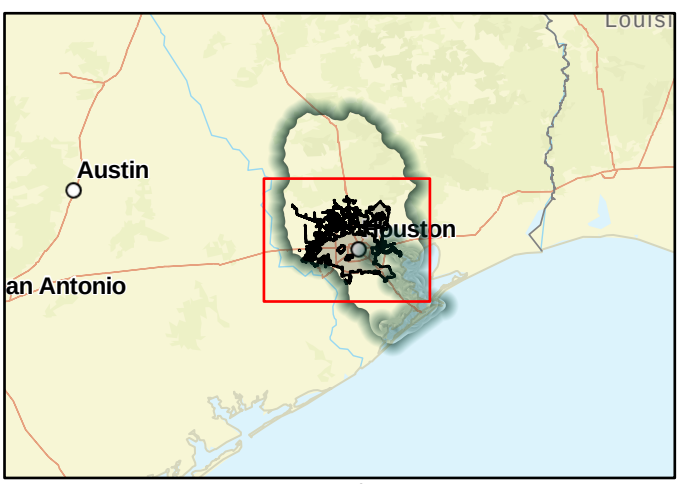
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$5,000	Non-recurring, non-capital cost (NRNC)	$300	Percent Nature-Based	100%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: Cit of Baytown Education and Awareness Program

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000087 | Sponsor Entity ID: 00-01-0000003343

Sponsor Name: Baytown (Municipality)

RFPG Recommend?: - | Reason for Recommendation: -

FMS Details

FMS Type: Education and Outreach

FMS Description: Educate residents on local hazards and safety steps through media, social media, flyers, and bulletins. Include weather alert links and department contacts with personnel info to help reduce injuries, fatalities, and property damage.

County: Multiple | Associated FME's: - | Associated FMP's: -

Emergency Need?: No | If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 38.19 | Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	28,930	Structures at risk	7,800	Critical facilities at risk	145
Farm/ranch at risk (acres)	921.24	Impacted roadway miles	274.92		
Low water crossings	13	Total historical road closures	13		

100-Year Flood Risk Reduction

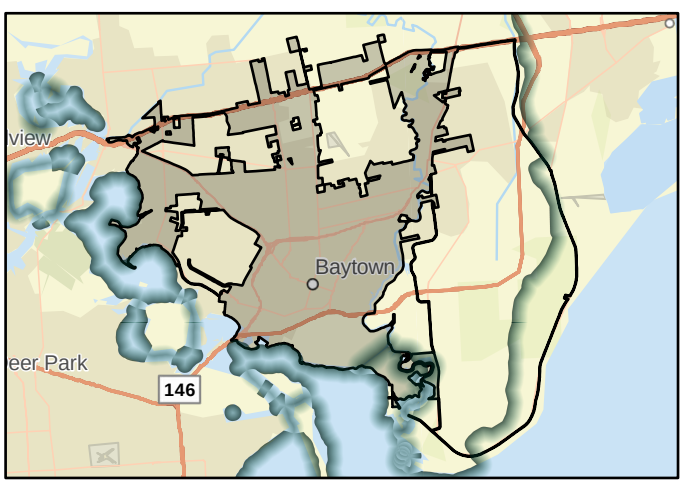
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	-
Other benefits	Public Education			Residential removed	

Impacts

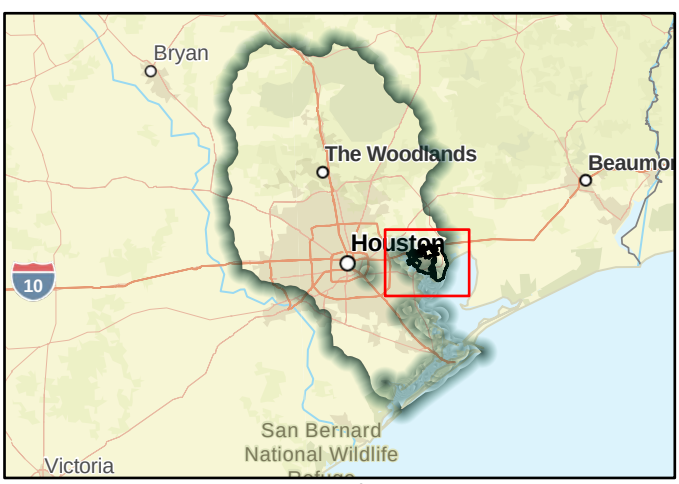
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$5,000	Non-recurring, non-capital cost (NRNC)	$300	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: City of Baytown Green Infrastructure Program

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000088 | Sponsor Entity ID: 00-01-0000003343

Sponsor Name: Baytown (Municipality)

RFPG Recommend?: - | Reason for Recommendation: -

FMS Details

FMS Type: Regulatory and Guidance

FMS Description: Establish, adopt, and implement a "green infrastructure" program for parks, nature preserves, greenbelts, etc., implementing bioswales for parking lots and streets.

County: Multiple | Associated FME's: - | Associated FMP's: -

Emergency Need?: No | If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 38.19 | Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	28,930	Structures at risk	7,800	Critical facilities at risk	145
Farm/ranch at risk (acres)	921.24	Impacted roadway miles	274.92		
Low water crossings	13	Total historical road closures	13		

100-Year Flood Risk Reduction

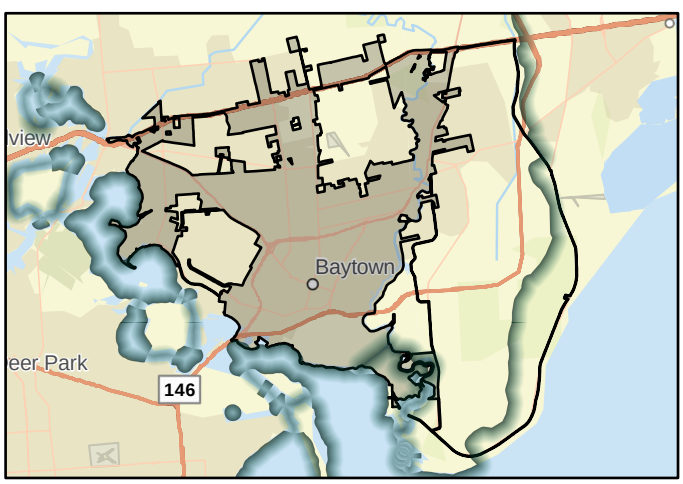
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	-
Other benefits	Environmental ,Water Quality Improvements, Recreation			Residential removed	

Impacts

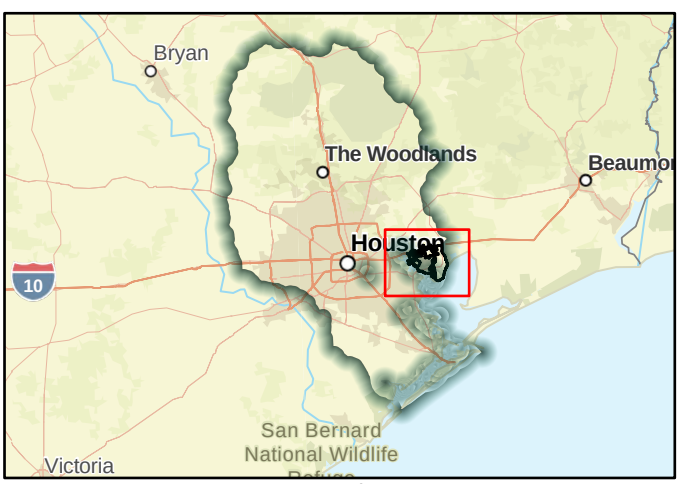
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$10,000	Non-recurring, non-capital cost (NRNC)	$500	Percent Nature-Based	100%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: City of Baytown Green Infrastructure Inclusion

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000089 Sponsor Entity ID: 00-01-0000003343

Sponsor Name: Baytown (Municipality)

RFPG Recommend?: - Reason for Recommendation: -

FMS Details

FMS Type: Regulatory and Guidance

FMS Description: Develop and implement policies that encourage the inclusion of green infrastructure into City Development Projects to mitigate natural hazards.

County: Multiple Associated FME's: - Associated FMP's: -

Emergency Need?: No If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 38.19 Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	28,930	Structures at risk	7,800	Critical facilities at risk	145
Farm/ranch at risk (acres)	921.24	Impacted roadway miles	274.92		
Low water crossings	13	Total historical road closures	13		

100-Year Flood Risk Reduction

Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	-
Other benefits	Environmental			Residential removed	

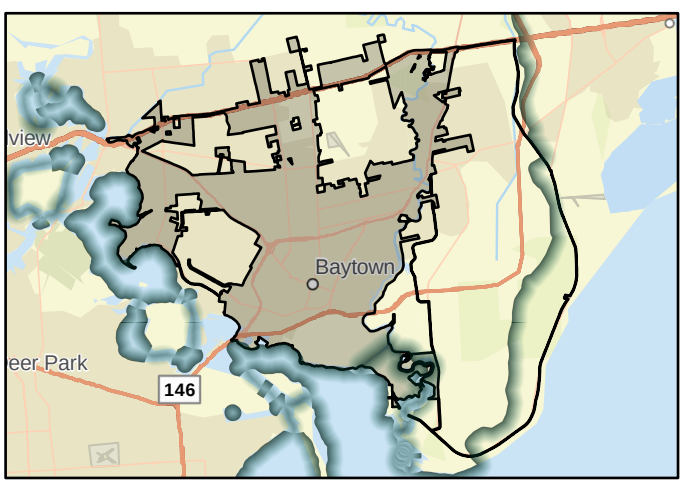
Impacts

Negative impact?: No Negative impact description: -

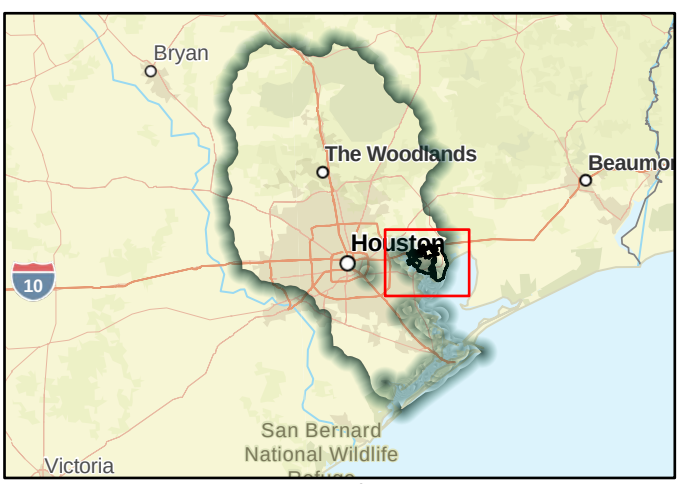
Water supply contributions?: No Water supply description: -

Estimated Cost(s)

Total FMS cost: $15,000 Non-recurring, non-capital cost (NRNC): $800 Percent Nature-Based: 100%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	City of Baytown Home Elevation and Acquisition Program
FMS ID	06-53-0000000090
Sponsor Entity ID	00-01-0000003343
Sponsor Name	Baytown (Municipality)
RFPG Recommend?	-
Reason for Recommendation	-

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS Details

FMS Type	Property Acquisition and Structural Elevation
FMS Description	Implement a home elevation / home acquisition program to identify SRL/RL residential properties and grant funding opportunities to ensure compliance with local building codes, floodplain ordinance, and CRS requirements.

County	Multiple	Associated FME's	-
Associated FMP's	-		
Emergency Need?	No	If yes, describe Emergency Need	
Drainage area (Est. sq-mi)	38.19	Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	28,930	Structures at risk	7,800	Critical facilities at risk	145
Farm/ranch at risk (acres)	921.24	Impacted roadway miles	274.92		
Low water crossings	13	Total historical road closures	13		

100-Year Flood Risk Reduction

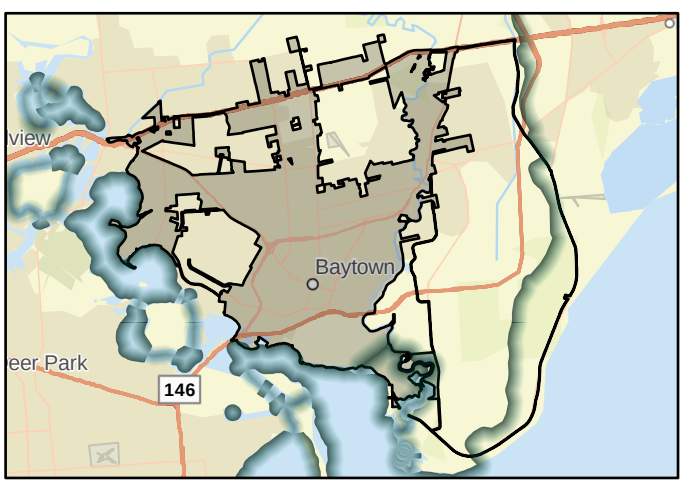
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	-
Other benefits	Reduced NFIP claims, lower homeowner insurance costs, reduced displacement after flood			Residential removed	

Impacts

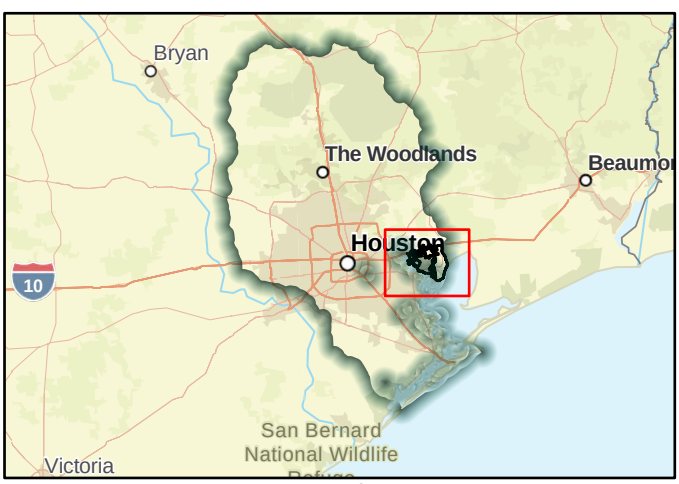
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$1,000,000	Non-recurring, non-capital cost (NRNC)	$50,000	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: City of Baytown- Harden Existing Critical Facilities

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000091 | Sponsor Entity ID: 00-01-0000003343

Sponsor Name: Baytown (Municipality)

RFPG Recommend?: - | Reason for Recommendation: -

FMS Details

FMS Type: Infrastructure Projects

FMS Description: Enhance and elevate generators at identified critical city facilities, utilities, and infrastructure systems by replacing end of life equipment with natural-gas powered generators.

County: Multiple | Associated FME's: - | Associated FMP's: -

Emergency Need?: No | If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 38.19 | Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	28,930	Structures at risk	7,800	Critical facilities at risk	145
Farm/ranch at risk (acres)	921.24	Impacted roadway miles	274.92		
Low water crossings	13	Total historical road closures	13		

100-Year Flood Risk Reduction

Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	-
Other benefits	Infrastructure Reliability, Emergency Preparedness			Residential removed	

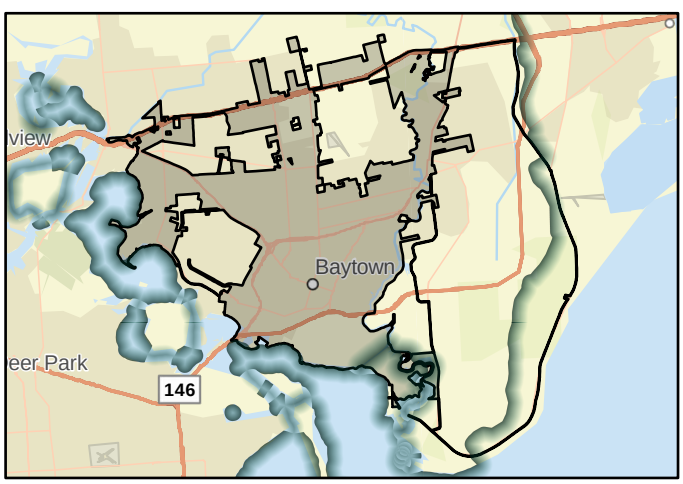
Impacts

Negative impact?: No | Negative impact description: -

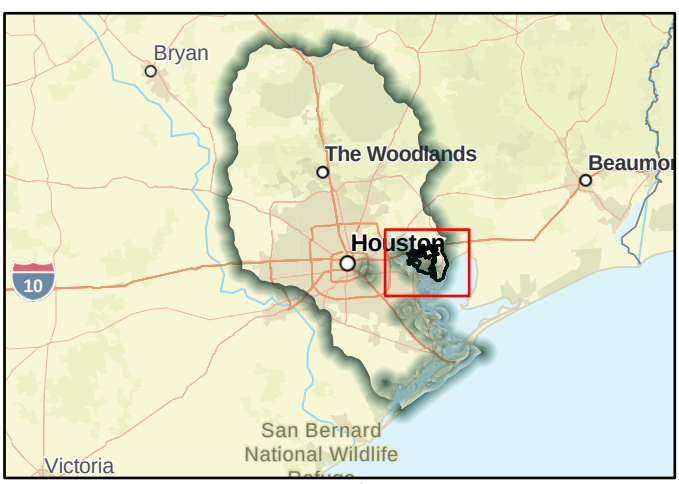
Water supply contributions?: No | Water supply description: -

Estimated Cost(s)

Total FMS cost: $1,000,000 | Non-recurring, non-capital cost (NRNC): $50,000 | Percent Nature-Based: 0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: City of Baytown Emergency Operations Center Improvements

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000092 | Sponsor Entity ID: 00-01-0000003343

Sponsor Name: Baytown (Municipality)

RFPG Recommend?: - | Reason for Recommendation: -

FMS Details

FMS Type: Infrastructure Projects

FMS Description: Improve and harden the Baytown Emergency Operations Center to include expansion, renovation, and upgrade to sustain emergency services and core city services.

County: Multiple | Associated FME's: - | Associated FMP's: -

Emergency Need?: No | If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 38.19 | Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	28,930	Structures at risk	7,800	Critical facilities at risk	145
Farm/ranch at risk (acres)	921.24	Impacted roadway miles	274.92		
Low water crossings	13	Total historical road closures	13		

100-Year Flood Risk Reduction

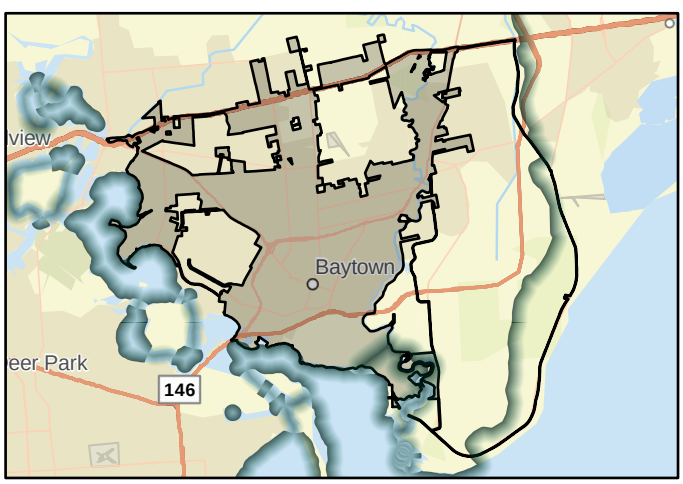
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	-
Other benefits	Infrastructure Reliability, Emergency Preparedness			Residential removed	

Impacts

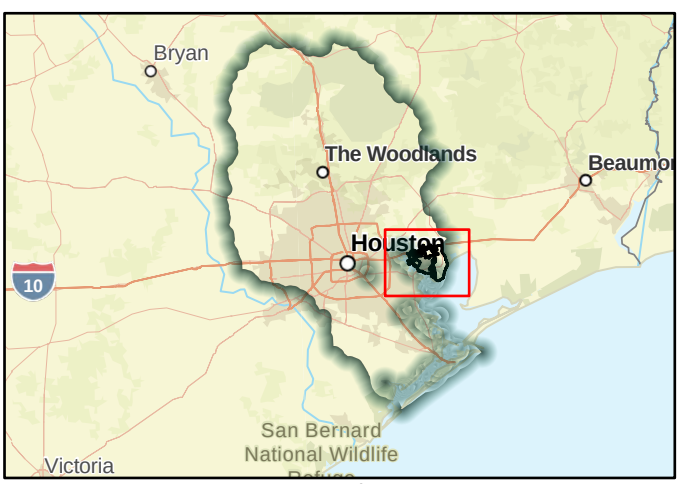
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$3,000,000	Non-recurring, non-capital cost (NRNC)	$150,000	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: City of Baytown Higher Standard Implementation

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000093 | Sponsor Entity ID: 00-01-0000003343

Sponsor Name: Baytown (Municipality)

RFPG Recommend?: - | Reason for Recommendation: -

FMS Details

FMS Type: Regulatory and Guidance

FMS Description: Review and where feasible implement higher standards that incorporate disaster resistant and hazard mitigation principles into local building codes, floodplain ordinances, and fire codes.

County: Multiple | Associated FME's: - | Associated FMP's: -

Emergency Need?: No | If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 38.19 | Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	28,930	Structures at risk	7,800	Critical facilities at risk	145
Farm/ranch at risk (acres)	921.24	Impacted roadway miles	274.92		
Low water crossings	13	Total historical road closures	13		

100-Year Flood Risk Reduction

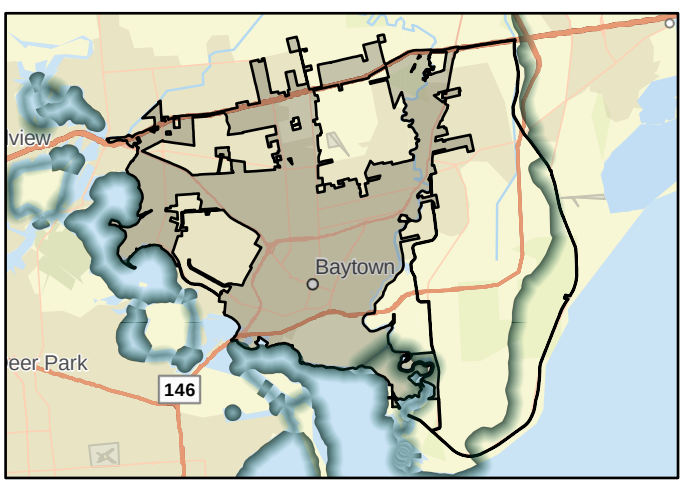
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	-
Other benefits	Improved development standards, regulatory compliance			Residential removed	

Impacts

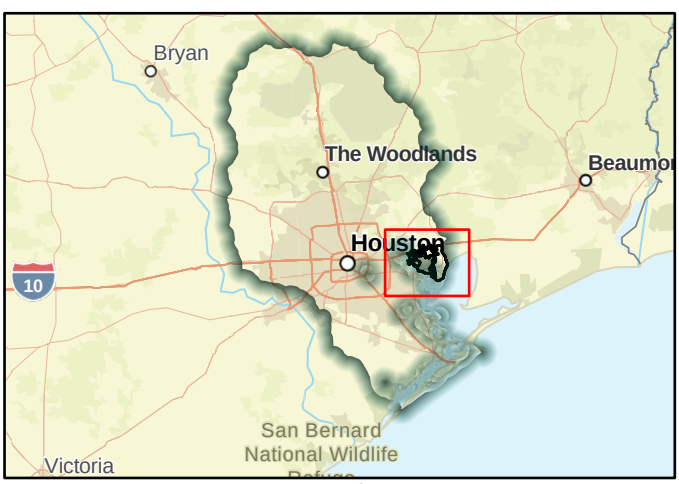
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$125,000	Non-recurring, non-capital cost (NRNC)	$6,300	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: City of Baytown Structure Retrofitting and Relocation Program

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000094 Sponsor Entity ID: 00-01-0000003343

Sponsor Name: Baytown (Municipality)

RFPG Recommend?: - Reason for Recommendation: -

FMS Details

FMS Type: Property Acquisition and Structural Elevation

FMS Description: Where appropriate, support retrofitting, purchase or relocation of structures located in hazard areas, prioritizing those that have experienced repetitive losses and/or are located in high- or medium-risk hazard areas.

County: Multiple Associated FME's: - Associated FMP's: -

Emergency Need?: No If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 38.19 Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	28,930	Structures at risk	7,800	Critical facilities at risk	145
Farm/ranch at risk (acres)	921.24	Impacted roadway miles	274.92		
Low water crossings	13	Total historical road closures	13		

100-Year Flood Risk Reduction

Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	-

Other benefits: Reduced NFIP claims, lower homeowner insurance costs, reduced displacement after flood Residential removed:

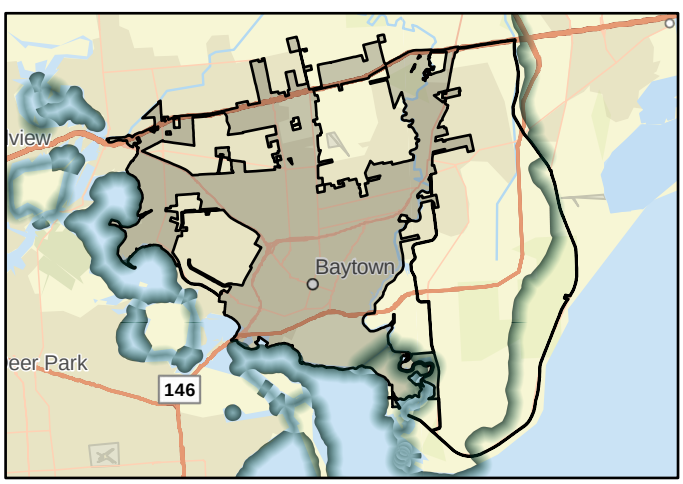
Impacts

Negative impact?: No Negative impact description: -

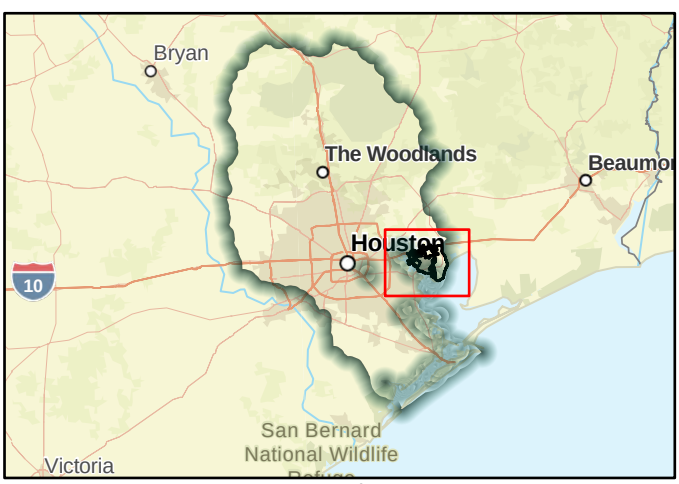
Water supply contributions?: No Water supply description: -

Estimated Cost(s)

Total FMS cost: $1,000,000 Non-recurring, non-capital cost (NRNC): $50,000 Percent Nature-Based: 0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: City of Baytown- Harden Sewer Lift Stations

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000095 Sponsor Entity ID: 00-01-0000003343

Sponsor Name: Baytown (Municipality)

RFPG Recommend?: - Reason for Recommendation: -

FMS Details

FMS Type: Property Acquisition and Structural Elevation

FMS Description: Elevate Electronic Controls for Sewer Lift Stations 24” above 500- year NFIP Floodplain.

County: Multiple Associated FME's: - Associated FMP's: -

Emergency Need?: No If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 38.19 Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	28,930	Structures at risk	7,800	Critical facilities at risk	145
Farm/ranch at risk (acres)	921.24	Impacted roadway miles	274.92		
Low water crossings	13	Total historical road closures	13		

100-Year Flood Risk Reduction

Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	-
Other benefits	Public Health, Infrastructure Reliability			Residential removed	

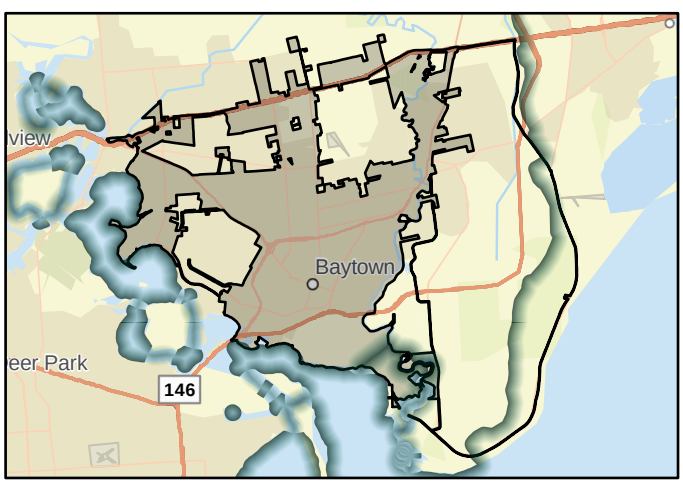
Impacts

Negative impact?: No Negative impact description: -

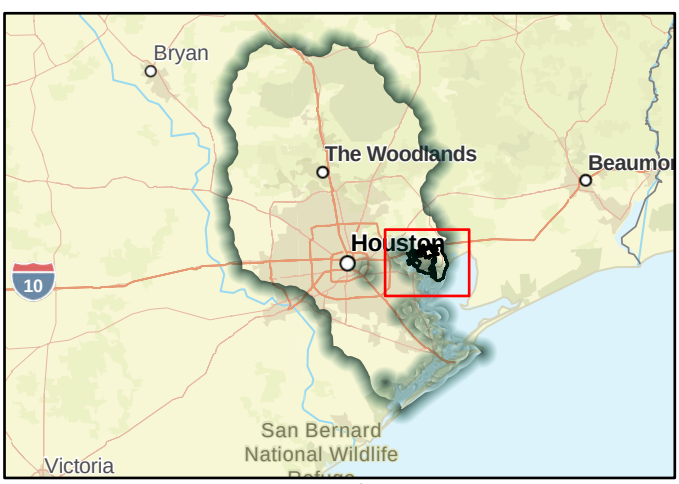
Water supply contributions?: No Water supply description: -

Estimated Cost(s)

Total FMS cost: $2,000,000 Non-recurring, non-capital cost (NRNC): $100,000 Percent Nature-Based: 0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: City of Baytown Flood Hazard Public Education Program

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000096 Sponsor Entity ID: 00-01-0000003343

Sponsor Name: Baytown (Municipality)

RFPG Recommend?: - Reason for Recommendation: -

FMS Details

FMS Type: Education and Outreach

FMS Description: Develop public education program for home owners on flood hazards and flood mitigation techniques to reduce flood damages to property.

County: Multiple Associated FME's: - Associated FMP's: -

Emergency Need?: No If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 38.19 Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	28,930	Structures at risk	7,800	Critical facilities at risk	145
Farm/ranch at risk (acres)	921.24	Impacted roadway miles	274.92		
Low water crossings	13	Total historical road closures	13		

100-Year Flood Risk Reduction

Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	-
Other benefits	Public Education			Residential removed	

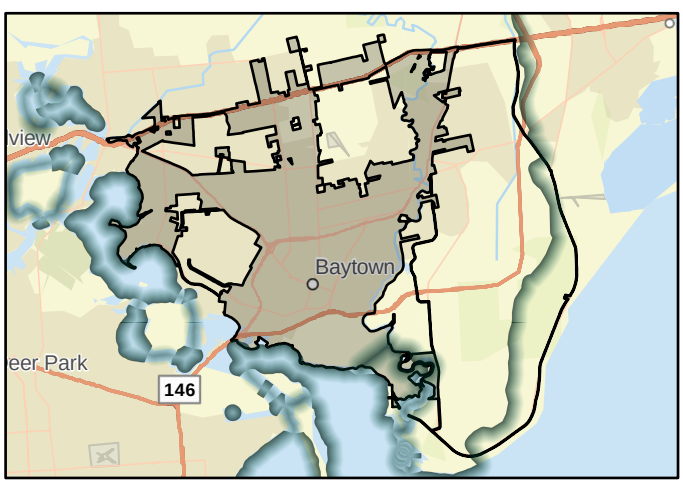
Impacts

Negative impact?: No Negative impact description: -

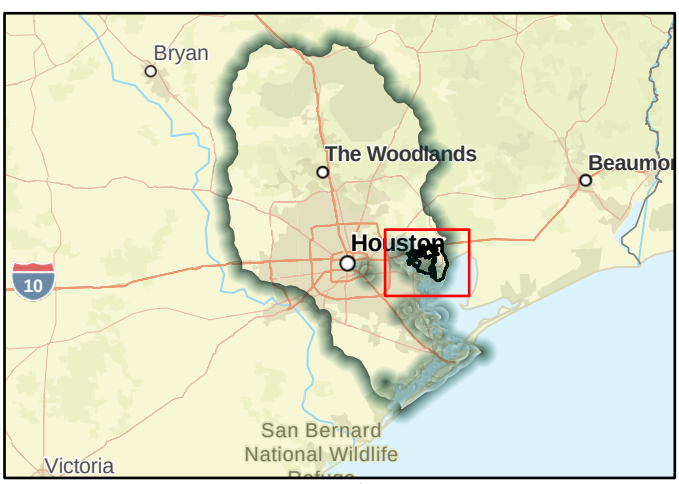
Water supply contributions?: No Water supply description: -

Estimated Cost(s)

Total FMS cost: $20,000 Non-recurring, non-capital cost (NRNC): $1,000 Percent Nature-Based: 0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: City of Baytown Community Rating System Classification Improvement

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000097 | Sponsor Entity ID: 00-01-0000003343

Sponsor Name: Baytown (Municipality)

RFPG Recommend?: - | Reason for Recommendation: -

FMS Details

FMS Type: Regulatory and Guidance

FMS Description: Improve City of Baytown CRS Classification from Class 5 to Class 4

County: Multiple | Associated FME's: - | Associated FMP's: -

Emergency Need?: No | If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 38.19 | Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	28,930	Structures at risk	7,800	Critical facilities at risk	145
Farm/ranch at risk (acres)	921.24	Impacted roadway miles	274.92		
Low water crossings	13	Total historical road closures	13		

100-Year Flood Risk Reduction

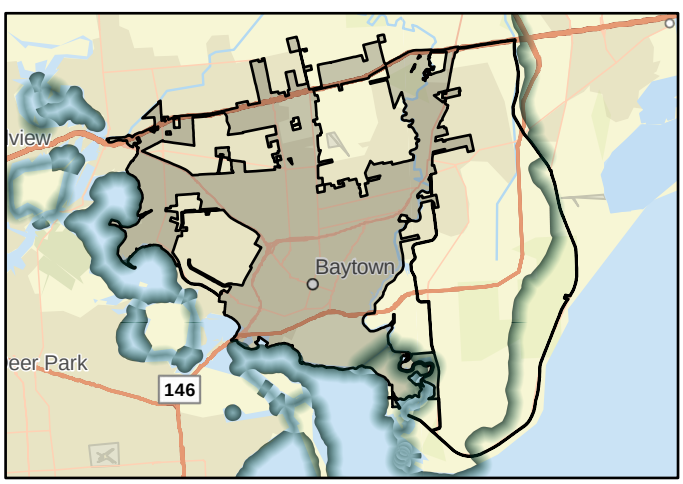
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	-
Other benefits	Lower homeowner insurance costs			Residential removed	

Impacts

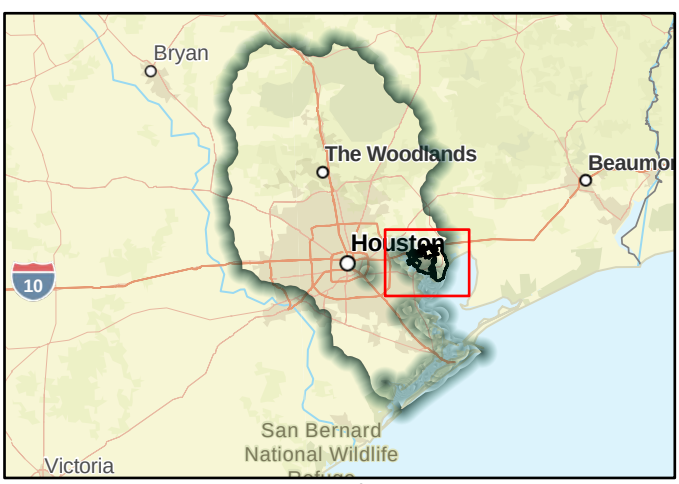
Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$50,000	Non-recurring, non-capital cost (NRNC)	$2,500	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title: Brazoria Drainage District No. 4 New DCM Regulatory Guidelines

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

FMS ID: 06-53-0000000098 | Sponsor Entity ID: 06-01-0000001583

Sponsor Name: Brazoria Drainage District 4 (Flood District)

RFPG Recommend?: - | Reason for Recommendation: -

FMS Details

FMS Type: Regulatory and Guidance

FMS Description: BDD4's 2013 drainage rules support safe development and require review every 5 years. A major update was made in July 2023, with minor amendments since. Continued updates are encouraged to align with current laws and improve consistency and efficiency.

County: Multiple | Associated FME's: - | Associated FMP's: -

Emergency Need?: No | If yes, describe Emergency Need:

Drainage area (Est. sq-mi): 86.52 | Assumptions/Relevant Context: N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	60,130	Structures at risk	23,677	Critical facilities at risk	158
Farm/ranch at risk (acres)	8,616.8	Impacted roadway miles	442.01		
Low water crossings	27	Total historical road closures	27		

100-Year Flood Risk Reduction

Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	-
Other benefits	Improved development standards, regulatory compliance			Residential removed	

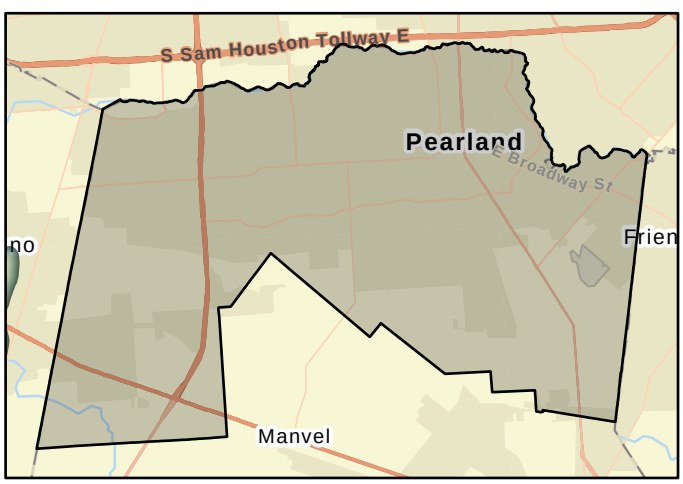
Impacts

Negative impact?: No | Negative impact description: -

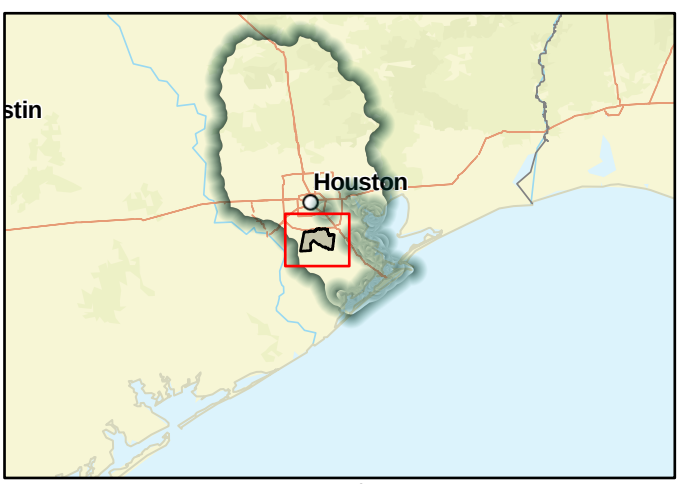
Water supply contributions?: No | Water supply description: -

Estimated Cost(s)

Total FMS cost: $50,000 | Non-recurring, non-capital cost (NRNC): $2,500 | Percent Nature-Based: 0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

Title	Dickinson Bayou Property Acquisition
FMS ID	06-53-0000000099
Sponsor Entity ID	06-01-0000000501
Sponsor Name	Galveston County Consolidated Drainage District (Flood District)
RFPG Recommend?	-
Reason for Recommendation	-

FMS Details

FMS Type	Property Acquisition and Structural Elevation
FMS Description	Acquisition of undeveloped property from a willing seller to preserve floodplain storage & develop regional detention capacity to reduce future flood risks.
County	Multiple
Associated FME's	-
Associated FMP's	-
Emergency Need?	No
If yes, describe Emergency Need	
Drainage area (Est. sq-mi)	25.52
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	11,835	Structures at risk	5,033	Critical facilities at risk	24
Farm/ranch at risk (acres)	3,540.07	Impacted roadway miles	130.69		
Low water crossings	10	Total historical road closures	10		

100-Year Flood Risk Reduction

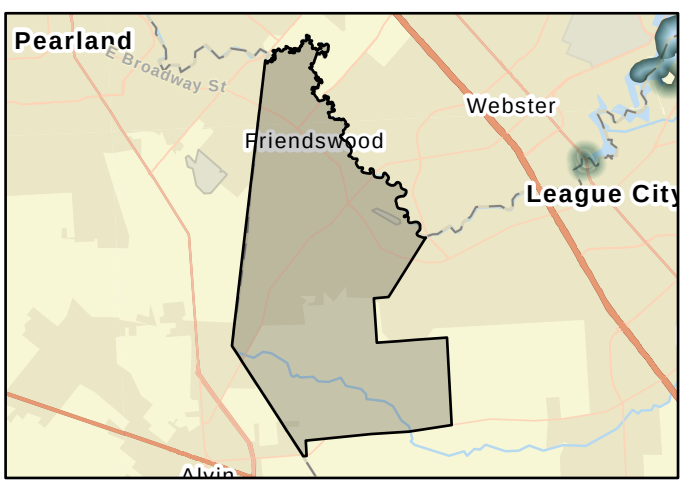
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	-
Other benefits	Acquisition of flood-prone property creates the opportunity for environmental and recreational			Residential removed	

Impacts

Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$240,000	Non-recurring, non-capital cost (NRNC)	$12,000	Percent Nature-Based	0%



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title	Repetitive Loss Property Acquisition Prioritization
FMS ID	06-53-0000000100
Sponsor Entity ID	06-01-0000000501
Sponsor Name	Galveston County Consolidated Drainage District (Flood District)
RFPG Recommend?	-
Reason for Recommendation	-

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FMS Details

FMS Type	Property Acquisition and Structural Elevation
FMS Description	Identification and prioritization of repetitive loss structures based on current and future flood risk to support targeted buyout and elevation projects.
County	Multiple
Associated FME's	-
Associated FMP's	-
Emergency Need?	Yes
If yes, describe Emergency Need	
Drainage area (Est. sq-mi)	25.52
Assumptions/Relevant Context	N/A

Existing 100-Year Flood Risk

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

Known lives lost in study area		Emergency facilities at risk		Residential at risk	
Population at risk	11,835	Structures at risk	5,033	Critical facilities at risk	24
Farm/ranch at risk (acres)	3,540.07	Impacted roadway miles	130.69		
Low water crossings	10	Total historical road closures	10		

100-Year Flood Risk Reduction

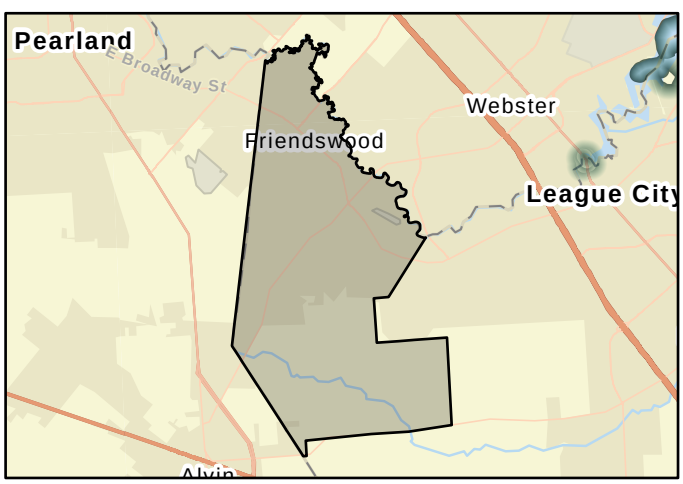
Population removed		Structures removed	0	Critical facilities removed	
Emergency facilities removed		Farm/ranch removed	0	Roadways removed(miles)	0
Low water crossings removed	0			Reduction in road closures over 10 years	-
Other benefits	Acquisition of flood-prone property creates the opportunity for environmental and recreational			Residential removed	

Impacts

Negative impact?	No	Negative impact description	-
Water supply contributions?	No	Water supply description	-

Estimated Cost(s)

Total FMS cost	$100,000	Non-recurring, non-capital cost (NRNC)	$5,000	Percent Nature-Based	0%



FMS area



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